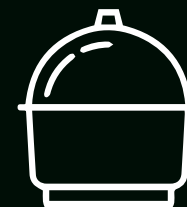


MARCA LAB
LABORATORY SOLUTIONS

general catalogue
2021



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2021



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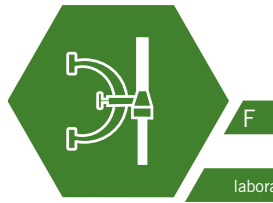
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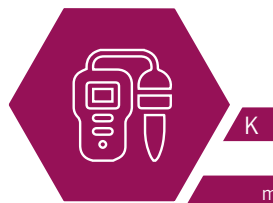
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▶ THE GROUP

Since its foundation in 1976, Auxilab/Rogo-sampaic has been devoted to the production and distribution of laboratory supplies. The quality given to its products, the investment in R&D, its highly qualified team and its competitive prices have made it a reference within the sector.

For more than 45 years Rogo-Sampaic has been a reference company for laboratory supplies distributors in France since it is a big logistics platform dedicated to import independent laboratory equipments and consumables.

In March 2011 Auxilab purchased the 100% of Rogo-Sampaic, which involved a noticeable development of both companies, by crating a stronger competence in distribution of laboratory equipments and consumables, thanks mainly to the following points:

- ▶ International coverage in more than 70 countries.
- ▶ Own brands such as Nahita, Nahita-BLue, Zuzi, Digipette, ENDOglassware, ENDOplasticware, ENDOproteclab, RSLAB y Ura Technic.
- ▶ Represented brands such as Socorex, Kartell, Jipo, Simax, Glassco, Saint-Go-bain, Plum, Univet y Emag.
- ▶ Facilities of 4.000 m² in Beriain (Navarra).
- ▶ We can offer you a wide range of solutions for health, agri-food, environmental, chemical-pharmaceutical and educational laboratories.
- ▶ ISO 9001 Certification by AENOR (since 1999).
- ▶ Product identification with GTIN-13 barcode (previously known as EAN13).
- ▶ Company affiliated to Ecoasimelec for the proper collection and treatment of Waste Electrical and Electronic Equipment (WEEE).

▶ MISSION

- ▶ The main mission of Auxilab/Rogo-sampaic is to provide distributors with the best value for money in all products with short delivery times.
- ▶ To achieve the maximum customer satisfaction and, therefore, among our main objectives is to offer an excellent technical and after-sales service.
- ▶ To offer customers a wide range of quality products at a very competitive price.
- ▶ The distribution of the articles is carried out exclusively through authorised distributors, which guarantees greater proximity, service and guarantee.

▶ POSITIONING

Price and service are the basis of Auxilab/Rogo-sampaic's philosophy.

Competitive advantages:

- ▶ Price: excellent quality-price ratio, which allows us to achieve the highest profitability for our clients.
- ▶ Service: immediate delivery. Orders leave our warehouses in 24/48 hours.
- ▶ Stock: wide range of products in stock with a reduced volume of breakage
- ▶ Logistics: high quality customer service, transport, inventory management, order processing.
- ▶ Technical assistance and after-sales service: qualified department that manages all our customers' needs.

▶ SERVICES

The main goal of Auxilab/Rogo-sampaic is to offer an excellent customer service. For that reason, we strongly believe in giving our clients an added value in all their purchases.

▶ Advising: We offer a complete and personalized advice during the whole sale process. We recommend the best buying options and the most interesting products according to the particular needs of each client. We organize training sessions for our distributors, going deeper into our range of products and showing them the latest innovations.

▶ After-sales technical assistance: our qualified technical assistance and after-sales service department guarantees a rapid response and assistance in all the countries in which we operate. We act promptly and efficiently, putting the customer's needs before all other factors.

▶ GENERAL SALES CONDITIONS

[01] Prices and minimum value order

Prices are in Euros, net prices for distributors, for merchandise packaged in our warehouse. Minimum order value: 300 €. Punctual items could suffer variation in prices due to a variation in EUR/JPY and/or USD over 3%.

[02] Shipments

Goods always travel at risk of the buyer, Auxilab/Rogo-sampaic will not take charge of breaks made during transport. We recommend to ensure merchandise. Auxilab/Rogo-sampaic has an agreement with a transport agency, with daily pick up and competitive prices. Auxilab/Rogo-sampaic is not responsible for delays in the pick up of goods, breakage or losses from other transportation companies contracted by the buyer. In case of incidence when receiving merchandise, please notify in 24 hours to the transport agency and Auxilab/Rogo-sampaic Commercial Department.

[03] Returns

Returns will be accepted only with previous authorization from Auxilab/Rogo-sampaic. It must be written communicated to AUXILAB/ROGO-SAMPAIC Commercial Department, informing reference, quantity, purchase date, delivery sheet number or invoice. Once we receive your request, we will send you a Returning Merchandise Authorization number, you should indicate in the external package. Returnings must be done within 15 days from the delivery date, with material in perfect conditions and with original package. Transport cost should be at purchaser's charge (except mistake in shipment by AUXILAB/ROGO-SAMPAIC) to our warehouse in: Polígono Industrial Morea Norte D N°6 31191 Berian (Navarra). Amount to be paid depends in the inspection, inspection expenses will be deducted from that amount. Merchandise returned without authorization will not be accepted and will be returned back at the expense and risk of the customer.

[04] Warranty

All the equipment supplied with serial number by Auxilab/Rogo-sampaic will have the warranty indicated by the manufacturer in each case. This warranty is for manufacturing defects, pieces and labor, from the purchase date. Are not included in the warranty: breakage due to improper handling, improper storage, drop or repair by unauthorized people.

IMPORTANT

To enable us to process your orders quickly and efficiently, please send them to us by email, indicating the item references and quantities.

NOTE

Prices valid except for typographical error. In case of such errors, we will notify you immediately on our website

▶ PURCHASE CONDITIONS

Auxilab/Rogo-sampaic will only take responsibility for damages that user can suffer as a result of utilization of the Website and when these damages were attributable to fraudulent action of the company. User admits and accepts that utilization of the Website, as well as purchase of offered goods is carried out on his own risk.

Auxilab/Rogo-sampaic is not responsible for derived damages, with expository and no limiting character (i) Inferences, omissions, interruptions, computer virus, breakdowns and/or disconnections in the operative operation of this electronic system or in user's appliances and computer system, motivated by reasons out of Auxilab/Rogo-sampaic control, these problems may impede or delay the provision of services or surf the System; (ii) Delays or blockages in the use caused by faults, Internet overloads or in other electronic systems; (iii) they may be caused by thirds through illegitimate interferences out of Store control and not attributable to Auxilab/Rogo-sampaic; (iv) information divergences, documentation and/or other contents of the Store that might exist between the electronic and printed version; (v) impossibility to give the Service or allow the access because of causes not imputable to Auxilab/Rogo-sampaic, owing to User, thirds or to cases of force majeure.

User obligations

With general character the user is obligated to compliance with General Conditions, with applicable Particular Conditions, with special warnings or instructions for use contain in the Website and act according to law, goods habits and requirements of good faith, using the properly diligence to the nature of service, abstaining from using the Website in any way that may impede, damage or deteriorate a normal operation, Auxilab/Rogo-sampaic's assets or rights, its suppliers, and the rest of the Users or in general of thirds.

Specifically, and without restriction to the assumed obligation by the User with general character in accordance with the previous section. Obligation. User obligations: (i) in case of registration, User is obligated to provide truthfull data and to update them; (ii) do not enter, store or distribute to or from the Website, any libellous information or material, slanderous, obscene, threatening, xenophobe, incites to violence or to race, sex, ideology, religion discrimination or in any way affect the moral, the public order, basic rights, public liberties, the honor, the intimacy or third' image and in general regulations under current regulations; (iii) do not enter, store or issue through the Website any computer program, data, virus, code, hardware equipment, telecommunications or any other instrument, electronic and physical device sensitive to cause damages in the Website, in any Service, in Labotienda's net or systems, of any user, Labotienda's supplies or in general to thirds; (iv) to guard properly the "User's name" and the "Password" given by Auxilab/Rogo-sampaic to the Users, as identifier and authorized elements for accessing to the Services. Auxilab/Rogo-sampaic undertakes not to transfer the use and not to allow the access to third, assuming the responsibility for any damages derived from bad use. Likewise the user undertakes to communicate to Auxilab/Rogo-sampaic, as soon as possible, his loss/theft and any access risk to "User's name" and/or the "Password" by a third; (v) do not do publicity, promotional or exploitation commercial activities through the Store, not using the contents and in particular obtained information thanks to the Store for sending publicity, messages for direct marketing purposes or any other commercial purpose and for picking up or storing personal data of third; (vi) do not use false identities or impersonate people's identities using the Website or any Services, including utilization of passwords and third's access keys; (vii) do not destroy, distort, use for own use or damage Auxilab/Rogo-sampaic's informations, programs or electronic documents, its suppliers or third; (viii) do not enter, store or issue through the Website other contents which violate intellectual and industrial right or third's business secrets.

OUR TRADEMARKS

We manufacture and commercialize equipment under our own brands, guaranteeing that all the equipment in our catalogue has passed the most rigorous controls and will arrive at its destination in optimal conditions:

NAHITA: basic laboratory equipment and material

NAHITA-BLUE

RS LAB: agitation and heat

ENDOpasticware: glass

ENDOpasticware: plastic products

ENDOpoteclab: protection and safety products

DIGIPETTE: liquid handling

GHÄASEL: microscope slides

ZUZI: optical equipment

RS FILTERS: filter paper

URA TECHNIC: optical equipment

PRECISS EUROPE: cell counting cameras



REPRESENTED TRADEMARKS

We represent top brands in the sector. We offer a better service to your customers, notably increasing the range of products and giving them the possibility of obtaining all types of laboratory consumables.

The great effort made by Auxilab/Rogo-sampaic with the INTRODUCTION of these new brands shows its firm confidence in the sector and in the quality of the service it offers.

SOCOREX: liquid handling articles characterised by their excellent precision in the measurement of liquids

KARTELL: high quality plastics, manufactured with the most advanced technology

JIPO: high quality technical porcelain

SIMAX: glass consumables characterised by high temperature resistance and chemical stability

GLASSCO: glass manufactured according to ISO standards of high quality, resistance and durability.

SAINT-GOBAIN: plastic, rubber and silicone products of high quality, durability and resistance

UNIVET: safety glasses

PLUM: safety in the lab

AVIGNON: porcelain

EMAG: ultrasonic baths





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[B]
GENERAL
USE



Nahita

nahita
blue



RS Lab

VITLAB

AVIGNON
CERAMIC

Kartell

ENDO
glassware



SMAL
CLEAN REPLY



B

GENERAL USE - [BB] mortars

page
[6]

▶ BBB - With pestle, glazed, porcelain

▶ With pestle

Nahita

- 1 | Ideal for grinding and mixing substances of low hardness.
- 2 | Glazed outside and inside, wide and stable base.
- 3 | With spout and pestle.

Code	Capacity	Diameter	Pestle length
BBB001	150 mL	100 mm	100 mm
BBB002	300 mL	130 mm	120 mm
BBB003	500 mL	150 mm	150 mm
BBB004	1000 mL	210 mm	200 mm

**AVIGNON
CERAMIC**

Code	Capacity	Diameter	Pestle length
BBB005	50 mL	75 mm	100 mm
BBB006	150 mL	102 mm	100 mm
BBB007	250 mL	117 mm	120 mm
BBB008	500 mL	150 mm	250 mm

JIP

Code	Capacity	Diameter	Pestle length
BBB011	25 ml	60 mm	52 mm
BBB012	30 mL	84 mm	84 mm
BBB013	70 mL	81 mm	84 mm
BBB014	75 mL	91 mm	135 mm
BBB015	110 mL	100 mm	135 mm
BBB016	160 mL	113 mm	135 mm
BBB017	220 mL	125 mm	150 mm
BBB019	500 mL	163 mm	175 mm

▶ BBC - With pestle, not glazed, porcelain

Nahita

- 1 | Ideal for grinding and mixing substances of low hardness.
- 2 | Non glazed outside and inside.
- 3 | With spout and pestle.

Code	Capacity	Diameter	Pestle length
BBC001	25 mL	60 mm	65 mm
BBC002	50 mL	80 mm	90 mm
BBC003	100 mL	100 mm	110 mm
BBC004	300 mL	130 mm	125 mm
BBC005	500 mL	160 mm	145 mm
BBC006	1000 mL	216 mm	215 mm
BBC007	2000 mL	254 mm	245 mm



BBD - With pestle, glass



- 1| Wide and stable base, polished inside and outside. With spout.
- 2| Included glass pestle with one rough, ball-shaped end.

Code	Capacity	Diameter	Pestle length
BBD001	90 mL	60 mm	90 mm
BBD002	100 mL	80 mm	105 mm
BBD003	200 mL	100 mm	115 mm
BBD004	400 mL	120 mm	130 mm
BBD005	900 mL	150 mm	180 mm



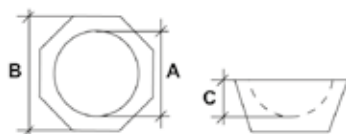
Code	Capacity	D	H
BBD006	100 mL	80 mm	60 mm
BBD007	150 mL	100 mm	75 mm
BBD008	250 mL	120 mm	90 mm
BBD009	750 mL	150 mm	110 mm
BBD010	2000 mL	200 mm	120 mm

BORO
3.3

BBF - With pestle, agate

DIMENSIONS - agate mortars

A: Mortar diameter
B: Mortar width
C: Mortar height



- 1| Supplied with pestle. Polished inside and outside. The external surface is uniformly sanding. Ideal for grinding and mixing substances of low hardness.

Code	Capacity	Dimensions (BxAxC)	Pestle length
BBF001	5 mL	40x35x10 mm	45 mm
BBF002	15 mL	60x50x14 mm	59 mm
BBF003	30 mL	80x65x18 mm	63 mm
BBF004	70 mL	100x82x25 mm	81 mm
BBF005	140 mL	120x100x30 mm	95 mm
BBF006	150 mL	130x110x33 mm	110 mm
BBF007	150 mL	140x115x35 mm	110 mm
BBF008	200 mL	150x125x38 mm	120 mm
BBF009	275 mL	160x128x39 mm	150 mm
BBF010	375 mL	170x143x41 mm	155 mm
BBF011	500 mL	180x150x45 mm	155 mm
BBF012	750 mL	200x165x50 mm	170 mm



- 1| Suitable for grinding and mixing, medium and hard substances. Very resistant to abrasions and contamination. Mortar and pestle polished externally and internally.
- 2| Hardness: 7 Mohs scale. Compression resistance: 110 Kg/mm²

Code	Capacity	∅ / Base (interior)	∅ / Base (exterior)
BBF511	15 mL	45 mm	60 mm
BBF512	30 mL	65 mm	80 mm
BBF513	70 mL	80 mm	100 mm
BBF514	140 mL	100 mm	120 mm





B

GENERAL USE - [BB] mortars

page
[8]

▶ BBH - Without pestle, glazed, porcelain

▶ Without pestle



1 | Pestle not included. Maximal application temperature 1000°C

Code	Capacity	D	H
BBH001	25 mL	51 mm	32 mm
BBH002	30 mL	56 mm	36 mm
BBH003	70 mL	63 mm	41 mm
BBH004	75 mL	76 mm	45 mm
BBH005	110 mL	83 mm	50 mm
BBH006	160 mL	90 mm	56 mm
BBH007	220 mL	105 mm	64 mm
BBH008	400 mL	125 mm	71 mm
BBH009	500 mL	139 mm	82 mm
BBH010	650 mL	150 mm	90 mm
BBH011	1000 mL	180 mm	104 mm
BBH012	2250 mL	224 mm	127 mm
BBH013	4300 mL	268 mm	160 mm

▶ Without pestle



1 | Pestle not included. Maximal application temperature 1000°C

Code	Capacity	D	H
BBH001	25 mL	51 mm	32 mm
BBH002	30 mL	56 mm	36 mm
BBH003	70 mL	63 mm	41 mm
BBH004	75 mL	76 mm	45 mm
BBH005	110 mL	83 mm	50 mm
BBH006	160 mL	90 mm	56 mm
BBH007	220 mL	105 mm	64 mm
BBH008	400 mL	125 mm	71 mm
BBH009	500 mL	139 mm	82 mm
BBH010	650 mL	150 mm	90 mm
BBH011	1000 mL	180 mm	104 mm
BBH012	2250 mL	224 mm	127 mm
BBH013	4300 mL	268 mm	160 mm

▶ Without pestle, glazed with base



1 | Pestle not included. Maximal application temperature 1000°C

Code	Capacity	D	H
BBH014*	150 mL	85 mm	65 mm
BBH015	300 mL	103 mm	75 mm
BBH016	420 mL	121 mm	88 mm
BBH017	730 mL	152 mm	95 mm
BBH018*	1200 mL	178 mm	110 mm

* These references are available under request

▶ Without pestle, glazed tall form



Code	Capacity	D	H
BBH035	60 ml	70 mm	52 mm
BBH036	250 ml	97 mm	77 mm
BBH037	300 ml	110 mm	88 mm
BBH038	350 ml	120 mm	100 mm
BBH039	400 ml	130 mm	115 mm
BBH040	500 ml	140 mm	126 mm
BBH041	750 ml	150 mm	132 mm
BBH042	1000 ml	167 mm	140 mm
BBH043	1500 ml	175 mm	146 mm
BBH044	2000 ml	195 mm	152 mm
BBH045	3000 ml	223 mm	160 mm



▶ BBH - Without pestle, glazed, porcelain

▶ Without pestle, glazed



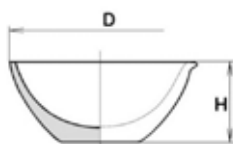
Code	Capacity	D	H
BBH019	50 ml	75 mm	40 mm
BBH020	100 ml	87 mm	52 mm
BBH021	150 ml	102 mm	60 mm
BBH022	200 ml	117 mm	67 mm
BBH023	250 ml	128 mm	75 mm
BBH024	500 ml	150 mm	85 mm
BBH025	650 ml	165 mm	90 mm
BBH026	750 ml	175 mm	97 mm
BBH027	1000 ml	180 mm	100 mm
BBH028	1500 ml	210 mm	110 mm
BBH029	2000 ml	240 mm	120 mm
BBH030	2500 ml	260 mm	130 mm
BBH031	3000 ml	280 mm	145 mm
BBH032	4000 ml	300 mm	150 mm
BBH033	6000 ml	320 mm	163 mm
BBH034	8000 ml	355 mm	175 mm

▶ BBJ - Without pestle, unglazed, porcelain



DIMENSIONS - porcelain mortars

D: diameter
H: height



▶ Without pestle, unglazed

1 | Maximal application temperature 1350 °C. Pestle not included.

Code	Capacity	D	H
BBJ001	25 mL	51 mm	32 mm
BBJ002	30 mL	56 mm	36 mm
BBJ003	75 mL	76 mm	45 mm
BBJ004	110 mL	83 mm	50 mm
BBJ005	160 mL	90 mm	56 mm
BBJ006	220 mL	105 mm	64 mm
BBJ007	400 mL	125 mm	71 mm
BBJ009	650 mL	150 mm	90 mm
BBJ010	1000 mL	180 mm	104 mm
BBJ011	2250 mL	224 mm	127 mm
BBJ012	4300 mL	268mm	160 mm



▶ Without pestle, unglazed with base

Code	Capacity	D	H
BBJ013	150 mL	85 mm	65 mm
BBJ014	300 mL	103 mm	103 mm
BBJ015	420 mL	121 mm	88 mm
BBJ016	730 mL	152 mm	95 mm
BBJ017*	1200 mL	178 mm	110 mm

* These references are available under request





B

GENERAL USE - [BB] mortars

page
[10]

▶ BBK - Without pestle, glass

▶ Potter mortars

BORO
3.3

Code	Capacity	D	H
BBK001	100 mL	80 mm	60 mm
BBK002	150 mL	100 mm	75 mm
BBK003	250 mL	130 mm	90 mm

NOTE: the mortar is supplied without pestle

▶ Potter mortars

BORO
3.3**Kartell**

1 | Made of borosilicate glass. To be used with PTFE pestle ref. BBQ006 (not included)

NOTE: CHECK PAGE 13

Code	Capacity	D	H
BBK006*	2 mL	8 mm	120 mm
BBK007*	5 mL	12 mm	135 mm
BBK008*	10 mL	15 mm	150 mm
BBK009*	15 mL	16 mm	155 mm
BBK010*	30 mL	25 mm	175 mm
BBK011*	50 mL	32 mm	195 mm

* These references are available under request

▶ BBL - Pestles, French shape, porcelain

▶ Melamine mortars

**VITLAB**

1 | White, with spout. Stable circumferential edge.

Code	Capacity	D	H
BBL500	300 ml	125 mm	75 mm
BBL501	500 ml	150 mm	90 mm

▶ BBM - Pestles, French shape, porcelain

▶ Melamine mortars



DIMENSIONS - Pestles, French shape, porcelain

D: diameter
L: length

1 | Unglazed head.

Code	D	L
BBM001	18 mm	68 mm
BBM002	20 mm	88 mm
BBM003	25 mm	96 mm
BBM004	34 mm	140 mm
BBM005	37 mm	158 mm



▶ **BBM - Pestles, French shape, porcelain**

▶ Pestle french shape



Code	D	L
BBM006		70 mm
BBM007		90 mm
BBM008		100 mm
BBM009		120 mm
BBM010		140 mm
BBM011		160 mm
BBM012		180 mm
BBM013		190 mm
BBM014		200 mm
BBM015		220 mm
BBM016		250 mm



▶ Pestle flat head glazed on handle



Code	D	L
BBM018	20 mm	70 mm
BBM019	25 mm	90 mm
BBM020	40 mm	120 mm
BBM021	60 mm	150 mm



▶ **BBN - Pestles, standard shape, porcelain**

DIMENSIONS - porcelain pestle for mortars, standard shape

D: diameter
L: lenght



▶ Unglazed



Code	D	L
BBN001	19 mm	65 mm
BBN002	26 mm	90 mm
BBN003	27 mm	110 mm
BBN004	36 mm	125 mm
BBN005	40 mm	145 mm
BBN006	45 mm	200 mm



Code	D	L
BBN007	14 mm	54 mm
BBN008	24 mm	115 mm
BBN009	30 mm	135 mm
BBN010	36 mm	150 mm
BBN011	42 mm	175 mm
BBN012	55 mm	210 mm
BBN013	74 mm	250 mm
BBN014	85 mm	300 mm
BBN015	101 mm	370 mm





B

GENERAL USE - [BB] mortars

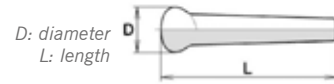
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▶ BBN - Pestles, standard shape, porcelain

▶ Glazed



DIMENSIONS - pestle, standard shape, porcelain

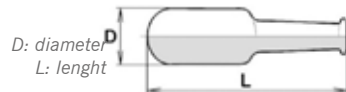


Code	D	L
BBN016	24 mm	115 mm
BBN017	30 mm	135 mm
BBN018	36 mm	150 mm
BBN019	42 mm	175 mm
BBN020	55 mm	210 mm
BBN021*	74 mm	250 mm
BBN022*	85 mm	300 mm
BBN023 *	101 mm	370 mm

* These references are available under request

▶ BBP - Pestles, wooden handle, porcelain

DIMENSIONS - pestles, wooden handle, porcelain



▶ Unglazed



Code	D	L
BBP001*	27 mm	155 mm
BBP002*	30 mm	180 mm
BBP003	33 mm	185 mm
BBP004*	37 mm	210 mm
BBP005*	45 mm	245 mm

* These references are available under request

▶ Glazed



Code	D	L
BBP006*	27 mm	155 mm
BBP007*	30 mm	180 mm
BBP008*	33 mm	185 mm
BBP009*	37 mm	210 mm
BBP010*	45 mm	245 mm

* These references are available under request



▶ BBP - Pestles, wooden handle, porcelain

▶ Glazed



Code	L
BBP011	120 mm
BBP012	135 mm
BBP013	150 mm
BBP014	170 mm
BBP015	190 mm
BBP016	300 mm
BBP017	320 mm



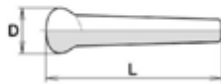
▶ BBQ - Pestles, glass

▶ Pestles, glass



DIMENSIONS - pestle for glass mortars

D: diameter
L: length



Code	For mortars	D	L
BBQ001	60 mm	20 mm	90 mm
BBQ002	80 mm	20 mm	105 mm
BBQ003	100 mm	25 mm	115 mm
BBQ004	120 mm	35 mm	130 mm
BBQ005	150 mm	38 mm	180 mm



▶ Potter pestle



1 | Head made of PTFE and shaft of stainless steel Serrated pestle. Ideal for tough materials such as tumours

NOTE: CHECK PAGE 10

Code	For potter mortars	Length
BBQ006*	2 mL	230 mm
BBQ007	5 mL	235 mm
BBQ008	10 mL	270 mm
BBQ009*	15 mL	270 mm
BBQ010*	30 mL	270 mm
BBQ011*	50 mL	270 mm

* These references are available under request



▶ BBR - Pestles, agate



Code	For mortars	Length
BBR001	15 mL	59 mm
BBR002	30 mL	63 mm
BBR003	70 mL	81 mm
BBR004	140 mL	101 mm





B

GENERAL USE - [BB] mortars

[BD] desiccators

page
[14]

▶ BBR - Pestles, agate

▶ Agate pestle



Code	For mortars	Length
BBR502	15 mL	77 mm
BBR503	30 mL	95 mm
BBR504	70 mL	100 mm
BBR505	140 mL	130 mm

▶ BBS - Pestles, melamine

▶ Melamine pestle



1 | White, heavy design. With ergonomically shaped grip.

Code	Length	Head \varnothing
BBS501	145 mL	35 mm
BBS502	160 mL	40 mm
BBS503	215 mL	42 mm

▶ BBV - Balls

▶ Porcelain



Code	Diameter
BBV010*	30 mm
BBV011*	40 mm
BBV012*	50 mm

* These references are available under request

▶ BDB - With stopcock

▶ Stopcock lid desiccator



1 | Lid with ground outlet and vacuum stopcock. With porcelain disk.

Code	Capacity	\varnothing Inner	\varnothing outer	Height
BDB001	1 L	100 mm	136 mm	180 mm
BDB002	2 L	150 mm	210 mm	220 mm
BDB003	4 L	200 mm	270 mm	300 mm
BDB004	7 L	250 mm	305 mm	360 mm
BDB005	14 L	300 mm	365 mm	420 mm



▶ BDB - With stopcock

DIMENSIONS - desiccator

d_1 : outer diameter
 d_2 : inner diameter
h: height



▶ Desiccator with plastic knob



1| Made of borosilicate glass, perfectly transparent. Glass vacuum stopcock lid.
Plastic knob lid. Desiccator disk NOT included.

Code	d_2	d_1
BDB006	100 mm	151 mm
BDB007	150 mm	210 mm
BDB008*	200 mm	269 mm
BDB009	250 mm	329 mm
BDB010	300 mm	392 mm

* These references are available under request



ISO 13130 BORO 3.3

▶ Desiccator SJ 24/29 with stopcock



1| Made of borosilicate glass. Perfectly transparent
2| Glass vacuum stopcock lid, ground 24/29. Plastic knob lid .
3| Desiccator disk NOT included

Code	d_2	d_1
BDB011	100 mm	151 mm
BDB012	150 mm	210 mm
BDB013	200 mm	269 mm
BDB014*	250 mm	329 mm
BDB015	300 mm	392 mm

* These references are available under request



ISO 13130 BORO 3.3

Code	d1	d2	h
BDB020	153 mm	94 mm	177 mm
BDB021	215 mm	143 mm	247 mm
BDB022	270 mm	192 mm	300 mm
BDB023	320 mm	239 mm	349 mm
BDB024	380 mm	285 mm	424 mm



ISO 13130 BORO 3.3

▶ Vacuum desiccator



1| Base and disc in polypropylene (PP). Lid in polycarbonate (PC). Autoclavable
2| PTFE stopcock with 3 ways
3| Vacuum up to 740 mm Hg/24h
4| Hose connection: 10 mm

Code	Diameter
BDB016	200 mm





▶ BDB - With stopcock

▶ Vacuum desiccator

**Kartell**

1 | Will take vacuum of -740 mm Hg with loss (absolut zero: -760 mm/HG) not exceeding 20 mm Hg in 24 hours.

2 | The transparent polycarbonate cover seals onto a neoprene 'O' ring set into the flange of the PP base.

Code	Inner diameter	Volume	Outer height	Inner height
BDB018	150 mm	2,15 L	190 mm	135 mm
BDB017	200 mm	4,35 L	230 mm	175 mm
BDB019	250 mm	9,20 L	300 mm	225 mm

▶ Heated vacuum desiccator "Vacuo-Temp"



1 | AISI 304 stainless steel outer casing. Polished aluminium alloy flat surface plate with an effective vacuum seal.

2 | Tempered glass bell jar with silicon gasket seal. Shielded heating element.

3 | Pt 100 temperature probe. Vacuum pump connection at the back of the unit. Vacuum bleed valve.



Code	BDB501
Vacuum max.	10 ⁻² mm Hg
Volume	3 L
Temperature	+5 to 170 °C
Resolution	1 °C
∅ heating plate	23,5 cm
Dimensions (HxWxdepth)	17x28x39 mm
Power	540 W
Weight	9 kg

▶ Vacuum desiccator

**VITLAB**

1 | Crystal clear, with stopcock for evacuation. rforated disc made of PP. Lid is sealed by a neoprene gasket. Ideal for use in educational laboratories.

Code	Diameter	∅ disc	Height
BDB503	171 mm	140 mm	206 mm
BDB504	230 mm	190 mm	260 mm
BDB505	273 mm	230 mm	311 mm

▶ BDD - Without stopcock

▶ Knob lid disecator



1 | Without connection to vacuum pumps. Supplied with porcelain disk.



Code	Capacity	Inner diameter	Outer diameter	Height
BDD001	1 L	100 mm	136 mm	180 mm
BDD002	2 L	150 mm	210 mm	220 mm
BDD003	4 L	200 mm	270 mm	300 mm
BDD004	7 L	250 mm	305 mm	360 mm
BDD005	14 L	300 mm	365 mm	420 mm



▶ BDD - Without stopcock

▶ Knob lid desiccator



DIMENSIONS - knob lid desiccator



ISO
13130

BORO
3.3

1 | Made of borosilicate glass with plastic knob lid. Desiccator disk not included.

Code	Inner diameter	d
BDD006	100 mm	151 mm
BDD007	150 mm	210 mm
BDD008	200 mm	269 mm
BDD009	250 mm	329 mm
BDD010	300 mm	392 mm

▶ Desiccator with glass knob



DIMENSIONS - desiccator with glass knob



ISO
13130

1 | Includes glass button cover. Porcelain disc not included.

Code	d1	d2	h
BDD011	153 mm	94 mm	191 mm
BDD012	215 mm	143 mm	261 mm
BDD013*	270 mm	192 mm	311 mm
BDD014	320 mm	239 mm	363 mm
BDD015	380 mm	285 mm	438 mm

* These references are available under request

▶ Desiccators, PP/PC



1 | The materials to be dried are placed on a perforated disc made of PP. The lid made from PC is sealed with a neoprene gasket. Ideal for use in educational laboratories..

Code	Diameter	∅ disc	Height
BDD500	171 mm	140 mm	206 mm
BDD501	230 mm	190 mm	260 mm
BDD502	273 mm	230 mm	311 mm



▶ Porcelain disks



1 | Glazed on one side.

Code	Diameter	Diameter holes
BDG001	90 mm	10 mm
BDG002	140 mm	10 mm
BDG003	190 mm	10 mm
BDG004	220 mm	10 mm
BDG005	275 mm	10 mm





▶ BDG - Disks

▶ Porcelain disks



1 | Glazed on one side.

Code	Diameter	Diameter holes
BDG011	90 mm	5,5 mm
BDG012	140 mm	5,5 mm
BDG013	189 mm	5,5 mm
BDG014	241 mm	5,5 mm
BDG015	290 mm	5,5 mm

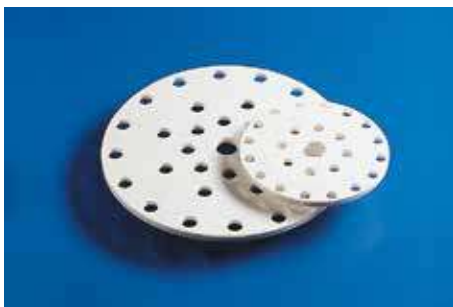
▶ Porcelain disk, DIN 12911

DIN
12911

Code	Diameter	Diameter holes
BDG006*	90 mm	3,5 mm
BDG007	140 mm	3,5 mm
BDG008*	190 mm	3,5 mm
BDG009	235 mm	3,5 mm
BDG010	280 mm	3,5 mm

* These references are available under request

▶ Polypropylene disks

**Kartell**

1 | Made of polypropylene. Useful as support for crucibles, Petri, etc. Use at room temperature. Not suitable for use with hot crucible

Code	Diameter	Diameter holes
BDG016	190 mm	7 mm
BDG017*	141 mm	7 mm
BDG018	238 mm	7 mm

* These references are available under request

▶ Porcelain disc



Code	Diameter
BDG019	130 mm
BDG020	140 mm
BDG021	170 mm
BDG022	185 mm
BDG023	220 mm
BDG024	235 mm
BDG025	270 mm

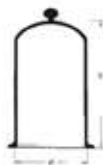


BDJ - Bell jars



DIMENSIONS - Bell jars

*d: base diameter
h: height*



Code	d	h
BDJ001	150 mm	150 mm
BDJ002*	150 mm	250 mm
BDJ003	150 mm	200 mm
BDJ004	200 mm	200 mm
BDJ005	200 mm	300 mm
BDJ006	300 mm	400 mm

* These references are available under request



BORO
3.3

BDL - Accessories

Knob lid for desiccator



Code	For desiccator	Outer diameter
BDL001	100 mm	136 mm
BDL002	150 mm	210 mm
BDL003	200 mm	270 mm
BDL004	250 mm	305 mm
BDL005	300 mm	365 mm



Knob lid for desiccator



DIMENSIONS - Knob lid for desiccator

*d: base diameter
h: height*



Code	d	h
BDL006	153 mm	78 mm
BDL007	215 mm	103 mm
BDL008	270 mm	108 mm
BDL009	320 mm	125 mm
BDL010	380 mm	150 mm



BORO
3.3

Stopcock for desiccator



1 | With male ground joint.

Code	Ground joint
BDL011	24/29
BDL012	19/28





▶ BDL - Accessories

▶ Lid ground joint for desiccator



1 | With frosted female , does not include key.

Code	For desiccator	Ground joint
BDL013	100 mm	19/28
BDL014	150 mm	19/28
BDL015	200 mm	24/29
BDL016	250 mm	24/29
BDL017	300 mm	24/29

▶ Lid for desiccator



BORO
3.3



DIMENSIONS - Lid for desiccator



Code	d	h	Ground joint
BDL018	153 mm	64 mm	24/29
BDL019	215 mm	89 mm	24/29
BDL020	270 mm	97 mm	24/29
BDL021	320 mm	111 mm	24/29
BDL022	380 mm	136 mm	24/29

▶ Stopcock for desiccator



BORO
3.3



1 | Ground joint male.

Code	Ground joint
BDL023	24/29

▶ Vacuum retention valve and O-ring for desiccator



Code	For
BDL024	Vacuum retention valve for BDB018, BDB017, BDB020
BDL025*	O-rings for BDB018
BDL026*	O-rings for BDB017
BDL027*	O-rings for BDB019

* These references are available under request



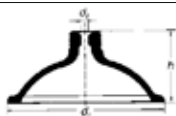
▶ BDL - Accessories

▶ Lid for desiccator straight stopcock



DIMENSIONS - Lid for desiccator straight stopcock

d_1 : diameter base
 d_2 : diameter tubuladura
 h : height



Code	For desiccator	d1	d2	h
BDL029*	100 mm	153 mm	9 mm	84 mm
BDL030*	150 mm	213 mm	9 mm	96 mm
BDL031*	200 mm	272 mm	9 mm	124 mm
BDL032	250 mm	333 mm	9 mm	140 mm
BDL033	300 mm	395 mm	9 mm	141 mm

* These references are available under request



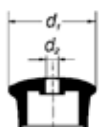
BORO
3.3

▶ PP knob with hole



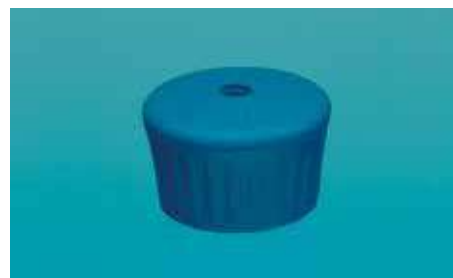
DIMENSIONS - PP knob with hole

d_1 : stopcock diameter
 d_2 : hole diameter



Code	d_1	d_2
BDL028*	52 mm	9 mm

* These references are available under request



▶ Straight stopcock with joint



DIMENSIONS - Straight stopcock with joint

d : diameter



Code	d
BDL034	8 mm



BORO
3.3

▶ Lid for desiccator SJ 24/29



Code	For desiccator	d1	h
BDL036	100 mm	153 mm	83 mm
BDL037	150 mm	213 mm	95 mm
BDL038	200 mm	272 mm	123 mm
BDL039	250 mm	333 mm	139 mm
BDL040	300 mm	395 mm	140 mm



BORO
3.3



BDL - Accessories

▶ Stopcock for desiccator

BORO
3.3

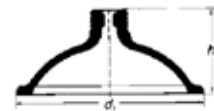
Code	Ground joint
BDL035	24/29

▶ Lid for desiccator unbored

BORO
3.3

DIMENSIONS - Lid for desiccator unbored

d: base diameter
h: height



Code	For desiccator	d1	h
BDL041	100 mm	153 mm	84 mm
BDL042	150 mm	213 mm	96 mm
BDL043	200 mm	272 mm	124 mm
BDL044	250 mm	333 mm	140 mm
BDL045	300 mm	395 mm	141 mm

▶ PP knob with hole for desiccator stopcock



DIMENSIONS - PP knob for desiccator stopcock

d: diameter



Code	d
BDL046	52 mm

▶ Silicone seal vacuo-temp



Code	Description
BDL501	For desiccator "Vacuo Temp"



BGB - Test tubes

DIMENSIONS - Test tubes, borosilicate glass and soda glass

d: diameter base
l: length



Test tubes soda glass



1| Straight edge and round bottom. Supplied in boxes of 250 units.

Code	dxl	Cap.	Wall thickness
BGB001	10x75 mm	3 mL	0.5 mm
BGB002	12x75 mm	5 mL	0.5 mm
BGB003	12x100 mm	7 mL	0.8 mm
BGB029	15.30x100 mm	13 mL	0.85 mm
BGB030	15.30x160 mm	25 mL	0.55 mm
BGB031	16x160 mm	20 mL	0.95 mm
BGB032	17.25x180 mm	35 mL	0.8 mm
BGB033	17.25x180 mm	30 mL	0.85 mm
BGB034	19.25x200 mm	50 mL	0.85 mm
BGB035	19.25x200 mm	50 mL	0.85 mm



Test tube borosilicate glass



1| Straight edge and round bottom. Boro 7.1

Code	dxl	Capacity	Wall thickness
BGB005	10x100 mm	5 mL	0.8 mm
BGB006	16x160 mm	25 mL	1.0 mm
BGB007	16x100 mm	15 mL	0.8 mm
BGB008	18x180 mm	35 mL	1.5 mm
BGB009	20x200 mm	50 mL	1.5 mm
BGB010	22x220 mm	65 mL	1.5 mm
BGB011	25x200 mm	80 mL	1.5 mm
BGB071	22x200 mm	-	1.5 mm



Test tube borosilicate glass



1| Straight edge and round bottom. Boro 3.3

Code	dxl	Capacity	Wall thickness
BGB063	12x120 mm	-	-
BGB064	14x140 mm	-	-
BGB066	16x160 mm	-	-
BGB067	18x180 mm	-	-
BGB070	25x200 mm	-	1.2 mm
BGB072	20x200 mm	-	-



BORO
3.3

Test tube



DIMENSIONS - Test tubes

d: diameter base
t: wall thickness
l: length



Code	Description	dxl	Capacity	t
BGB015	Sin reborde	16x160 mm	25 mL	1.2 mm
BGB016	Sin reborde	18x180 mm	35 mL	1.2 mm
BGB017	Con tapón (GL18)	16x120 mm	18 mL	1.8 mm



BORO
3.3



B

GENERAL USE - [BG] tubes

page [24]



BGB - Test tubes

▶ Test tubes, PTFE



Kartell

- 1 | High chemical, mechanical and thermal resistance
- 2 | Supports continuous temperatures up to 250°C and up to 300°C in short intervals..

Code	Width	Diameter interior	Diameter exterior	Height
BGB018	Conic	15 mm	18 mm	120 mm
BGB019	Round	15 mm	18 mm	100 mm



ENDO
plasticware

- 1 | Exceptional chemical, mechanical and heat resistance Cylindrical Shape

Code	Capacity	Dimensions (ø x L)
BGB073	5 mL	16x56 mm
BGB074	10 mL	16,5x103 mm
BGB075	25 mL	
BGB076	50 mL	28x121 mm

▶ Test tubes PS, with lid PE



Kartell

- 1 | Round bottom and support base.
- 2 | Ref. BGB021 and BGB023 are supplied in individual sterilized packaging.
- 3 | IVD certificate

Code	Capacity	Diameter	Height	Pack
BGB020*	12 mL	16 mm	102 mm	1500 uds
BGB021*	12 mL	16 mm	102 mm	1500 uds
BGB022*	30 mL	25 mm	92,4 mm	400 uds
BGB023*	30 mL	25 mm	92,4 mm	400 uds

* These references are available under request

▶ Test tubes PP



ENDO
plasticware

DIMENSIONS - Test tubes, PP

d: diameter base
l: lenght



Code	Capacity	d x l
BGB025	5 mL	12x75 mm
BGB026	15 mL	16x100 mm

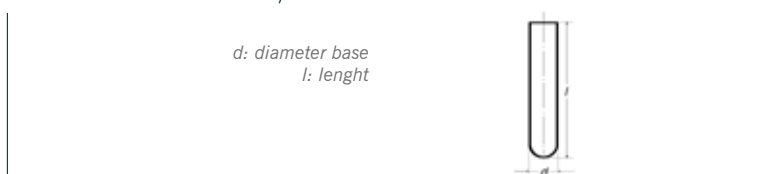


BGB - Test tubes

Test tubes PS



DIMENSIONS - Test tubes, PS



Code	Capacity	dxl
BGB027	5 mL	12x75 mm
BGB028	15 mL	16x100 mm

Hemolysis glass tube



1| Supplied in boxes of 500 units.

Code	Capacity	dxl
BGB058*	5 mL	11,60x75 mm
BGB059*	5 mL	12,25x65 mm
BGB060*	6 mL	12,25x75 mm
BGB061*	5 mL	12,25x75mm
BGB062*	5 mL	12,25x100 mm

* These references are available under request



Sample tubes, PFA



1| . Sample tubes made from PFA for sample preparation and for use in autosampler racks.

2| Code BGB502 with ring mark and screw cap and code BGB503 without ring mark

Code	Volume	Ø mmr	Height
BGB502	15 mL	22 mm	110 mm
BGB503	15 mL	22 mm	110 mm

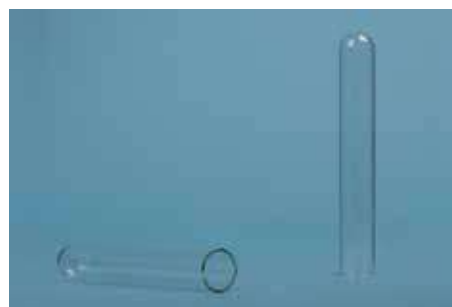
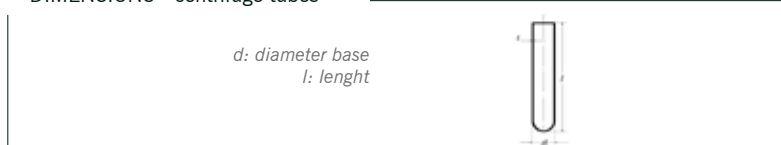


BGD - Centrifuge tubes

Centrifuge cylindrical tube



DIMENSIONS - centrifuge tubes



1| Ungraduated, with a rim. Capacity of 12 mL.

Code	Width	dxl	t
BGD001	Round	16x100 mm	1.2 mm
BGD002	Conic	16x110 mm	1.0 mm



BGD - Centrifuge tubes

▶ ASTM glass



▶ Glass

BORO
3.3

▶ Polypropylene



▶ Centrifuge Tube, High Quality



- 80 °C



AUTO



+120°



Code	Capacity	Shape
BGD003	100 mL	Cylindrical
BGD004	100 mL	Pear



DIMENSIONS - tubes for centrifuges

d: diameter base
l: lenght

Code	Capacity	d x l
BGD005	5 mL	13x100 mm
BGD006	10 mL	15x110 mm
BGD007	15 mL	17x120 mm
BGD008	25 mL	22x125 mm
BGD009	50 mL	30x125 mm



1 | Screw cap, conical bottom and graduated. With labeling band.

Code	Capacity	D x L
BGD010	15 mL	16x120 mm
BGD011	50 mL	29x117 mm
BGD070*	50 mL	30x115 mm

*self-standing bottom



1 | They are certified and biologically inert, completely free of DNase, RNase, endotoxins and pyrogens

2 | Centrifuge tubes have a large labeling area and a permanent graduation resistant to chemicals, abrasives and scratches

3 | Sterile tubes are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards

4 | 15 mL tubes RCF resistance: 17.000 g and 50 mL tubes 20.000 g fc

Code	Capacity	Width	Pack	Steril
BGD082	15 mL	Conic	25 uds/pack	No
BGD083	15 mL	Conic	25 uds/Rack	No
BGD084	15 mL	Conic	25 uds/pack	Yes
BGD085	50 mL	Conic	25 uds/pack	No
BGD086	50 mL	Conic	25 uds/Rack	No
BGD087	50 mL	Conic	25 uds/pack	Yes
BGD088	50 mL	Self-standing	25 uds/Rack	No
BGD089	50 mL	Self-standing	25 uds/Rack	Yes



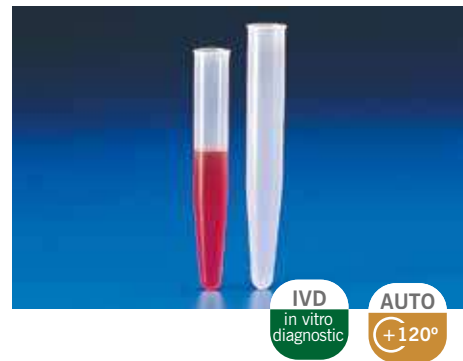
▶ BGD - Centrifuge tubes

▶ Conical tubes PP

Kartell

1 | Up to 4,000 RPM

Code	Capacity	DxL	Units/Lot
BGD012	10 mL	16x108 mm	500
BGD013	15 mL	18x120 mm	500



▶ Cylindrical test tubes PP

Kartell

1 | Up to 4000 RPM, acid resistant.

Code	Capacity	DxL	Pack
BGD014	7 mL	12x100 mm	100
BGD015	16 mL	18x100 mm	500
BGD016	31 mL	24x95 mm	50
BGD017	48 mL	30x100 mm	25
BGD018	70 mL	35x100 mm	20
BGD019	110 mL	40x120 mm	25

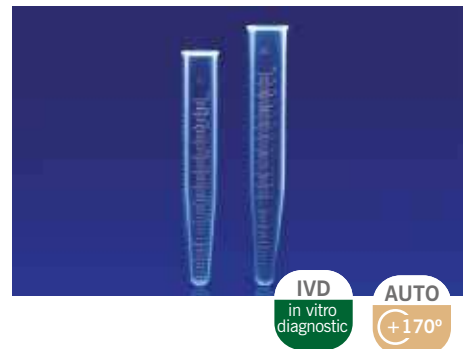


▶ Conical centrifuge PMP

Kartell

1 | Up to 4000 RPM, high chemical resistance
2 | Graduation 0,2 mL.

Code	Capacity	DxL	Units/Lot
BGD020	10 mL	16x107 mm	50
BGD021	15 mL	18x118 mm	50

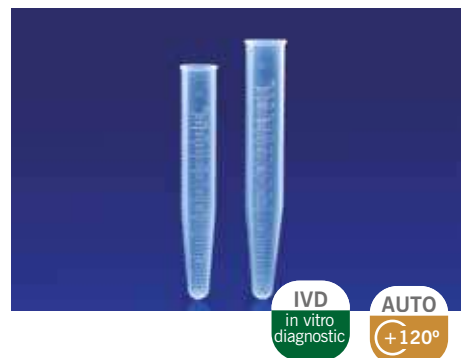


▶ Graduated conical test tube PP

Kartell

1 | Up to 4000 RPM, high chemical resistance. Graduation 0,2 mL.

Code	Capacity	DxL	Units/Lot
BGD022	10 mL	16x107 mm	100
BGD023	15 mL	18x118 mm	100





BGD - Centrifuge tubes

▶ Graduated test tubes PP

IVD
in vitro
diagnostic- 80 °C
frozen

▶ Graduated test tubes PP

IVD
in vitro
diagnostic- 80 °C
frozenAUTO
+121°

▶ Screw cap cylindrical test tube PS

IVD
in vitro
diagnostic

▶ Conical test tube PS

IVD
in vitro
diagnostic**Kartell**

- 1 | With PP screw cap, with totally watertight seal.
- 2 | Red cap for the sterile version.

Code	Capacity	DxL	Pack
BGD024	15 mL	17x120 mm	150
BGD025	15 mL	17x120 mm	150
BGD039	15 mL	17x120 mm	700
BGD072	50 mL	30x115 mm	100
BGD026	50 mL	30x115 mm	100
BGD040	50 mL	30x115 mm	600
BGD027*	50 mL	30x115 mm	100
BGD028*	50 mL	30x115 mm	100
BGD041*	50 mL	30x115 mm	500

*self-standing

sterile

sterile single pack

Kartell

- 1 | With screw cap and conical bottom, screen-printed graduation.
- 2 | Apirogenic, endotoxin-free, autoclavable and CE marked according to directive 98/79/EC.
- 3 | 15 mL RCF tubes of 6200 xg and 50 mL RCF tubes of 9400 xg.

Code	Capacity	DxL	Pack
BGD029	15 mL	17x121 mm	50
BGD030	15 mL	17x121 mm	50
BGD031*	15 mL	17x121 mm	500
BGD032	15 mL	17x121 mm	Tray, 50
BGD033*	15 mL	17x121 mm	Tray, 50
BGD034	50 mL	30x117 mm	25
BGD035	50 mL	30x117 mm	25
BGD036*	50 mL	30x117 mm	400
BGD037	50 mL	30x117 mm	Tray, 25
BGD038	50 mL	30x117 mm	25

* These references are available under request

sterile

sterile single pack

Kartell

- 1 | They have screw caps.

Code	Capacity	DxL	Pack
BGD042	10 mL	16x100 mm	1000
BGD043	10 mL	16x100 mm	200
BGD044*	10 mL	16x100 mm	750
BGD045*	15 mL	16x120 mm	750
BGD046	15 mL	16x120 mm	700
BGD047	20 mL	16x120 mm	500
BGD048*	20 mL	16x120 mm	500

* These references are available under request

sterile

sterile single pack

Kartell

- 1 | No rim.

Code	Width	Capacity	DxL	Pack
BGD049*	Conic	10 mL	16x105 mm	1000
BGD050	Cylindrical	10 mL	16x100 mm	500
BGD052	Cylindrical	5 mL	12x75 mm	1000
BGD051	Cylindrical	5 mL	13x75 mm	1000
BGD057*	Cylindrical	15 mL	16x150 mm	1000
BGD054	RIA	5 mL	11x16 mm	1000
BGD053	Clotometer	3 mL	11,5x56 mm	1000
BGD071**	Clotometer	3 mL	11,5x55 mm	1000

* These references are available under request

** polipropileno



▶ BGD - Centrifuge tubes

▶ Disposable, PP and PS

Kartell

1 | With rim

Code	Width	Capacity	DxL	Pack
BGD055*	Cylindrical PS	5 mL	12x87 mm	4000
BGD056*	Cylindrical PP	5 mL	12x96 mm	4000
BGD058*	Cylindrical PS	10 mL	16x99,3 mm	2000
BGD059	Cylindrical PP	10 mL	16x100 mm	2000
BGD060*	Conic PS	10 mL	16x100 mm	2000
BGD061*	Conic PP	10 mL	16x100 mm	2000

* These references are available under request


IVD
in vitro
diagnostic

▶ Screw cap PP

Kartell

1 | With PE screw cap. For centrifugal use, RCF 4.000 xg.
2 | In bags of 1000 pcs.

Code	Colour	Capacity	DxL	Pack
BGD062*	Red	15 mL	16x100 mm	B/1000 uds
BGD063	White	15 mL	16x100 mm	B/1000 uds
BGD064	Blue	15 mL	16x100 mm	B/1000 uds
BGD065	Yellow	15 mL	16x100 mm	B/1000 uds
BGD066	Red	15 mL	16x100 mm	B/100 uds
BGD067	White	15 mL	16x100 mm	B/100 uds
BGD068	Blue	15 mL	16x100 mm	B/100 uds
BGD069*	Yellow	15 mL	16x100 mm	B/100 uds

* These references are available under request


IVD
in vitro
diagnostic

sterile

▶ Tubes with screw cap

COMECTA

1 | Polystyrene, screenprinted and with screw cap.

Code	Capacity	DxL	Pack	Bottom
BGD500	10 mL	16x100 mm	50	Round
BGD501	10 mL	16x100 mm	1000	Round
BGD502	13,5 mL	16x110 mm	1000	Conical
BGD503	15 mL	16x120 mm	750	Round
BGD504	15 mL	17x120 mm	150	Conical
BGD505	15 mL	17x120 mm	150	Conical
BGD506	50 mL	30x115 mm	100	Conical
BGD507	50 mL	30x115 mm	25	Conical

sterile



▶ Glass tubes



Code	Volume	Dimensions
BGD509	ASTM	Pear shape
BGD510	250 mL	56 Ø x 147mm
BGD511	100 mL	44 Ø x 104 mm
BGD512	50mL	34 Ø x 100 mm
BGD513	25 mL	24 Ø x 100mm
BGD514	15 mL	16.5 Ø x 100 mm
BGD516	ASTM	Conical



BGD - Centrifuge tubes

▶ Plastic tubes and flasks with screw cap lids



- 1| Type HEROLAB polycarbonate tubes transparent Polypropylene tubes translucent.
- 2| Autoclavable.

Code	Volume	Dimensions	Material	Max range
BGD526	10 mL	160x80 mm	Polycarbonate	57000
BGD527	30 mL	250x92mm	Polycarbonate	64000
BGD528	50 mL	290x103mm	Polycarbonate	69000
BGD529	80 mL	380x105mm	Polycarbonate	50000
BGD530	250 mL	700x165mm	Polycarbonate	33000
BGD531	500 mL	980x175mm	Polycarbonate	14000
BGD532	1000 mL	160x80 mm	Polycarbonate	4936
BGD536	10 mL	250x92mm	Polypropylene	57000
BGD537	30 mL	250x92mm	Polypropylene	64000
BGD538	50 mL	290x103mm	Polypropylene	69000
BGD539	80 mL	380x105mm	Polypropylene	50000
BGD540	500 mL	700x165mm	Polypropylene	33000
BGD541	1000 mL	980x175mm	Polypropylene	4936



- 1| Type COMECTA polypropylene translucent
- 2| Autoclavable.

Code	Volume	Dimensions	Material	Max range
BGD533	30 mL	250x92mm	Polypropylene	50000
BGD534	50 mL	290x103mm	Polypropylene	50000
BGD535	250 mL	700x165mm	Polypropylene	13200



BGG - Culture tubes

DIMENSIONS - culture tube

d: diameter base
l: lenght



▶ Culture tube screw cap PP



- 1| Borosilicate glass
- 2| Screw cap with PTFE joint

Code	Capacity	DxL
BGG001	5 mL	15x75 mm
BGG002	10 mL	15x125 mm
BGG003	15 mL	15x150 mm
BGG006*	22 mL	16x160 mm
BGG005	25 mL	18x150 mm
BGG004	45 mL	25x150 mm
BGG012	60 mL	25x200 mm

* with aluminium cap

BORO
3.3



BGG - Culture tubes

Culture tube screw cap PP



- 1 | Borosilicate glass
- 2 | Screw cap with PTFE joint

Code	Capacity	DxL
BGG007	5 mL	18x45 mm
BGG009	30 mL	25x95 mm
BGG010	40 mL	25x145 mm



BORO
3.3

Durham Be



DIMENSIONS - Durham bell

d: diameter base
l: length



Code	DxL	t	Units/Lot
BGG011	7x50 mm	0,5 mm	1000



BGJ - U tubes



- 1 | Borosilicate glass, with rim.

Code	Capacity
BGJ001	16x150 mm



BGL - Tube caps

For disposable test tubes, PE



- 1 | Neutral colour.

Code	Diameter	Units/Lot
BGL010*	11 mm (RIA)	1000
BGL011	16 mm	1000

* These references are available under request



IVD
in vitro
diagnostic



BGL - Tube caps

▶ Test tube caps, PE

IVD
in vitro
diagnostic

▶ Finned plug for tube

IVD
in vitro
diagnostic

▶ Stopper PE for tubes



▶ Caps for biological culture tubes "Sero-Tap"

**Kartell**

1 | Suitable for both glass and plastic tubes

Code	Diameter	For tubes of	Units/Lot
BGL001	10,5 mm	12 mm	100
BGL002	14 mm	16 mm	100
BGL003	14,5 mm	16 mm	100
BGL009	15,5 mm	17 mm	100
BGL004	16 mm	18 mm	100
BGL005	22 mm	24 mm	100
BGL006	28 mm	30 mm	100
BGL007	33 mm	35 mm	100
BGL008	38 mm	40 mm	100

Kartell

1 | Polyethylene flap for disposable tubes with diameter 11/13 mm or 15/17 mm

Code	For tubes of	Colour	Units/Lot
BGL012	15-17 mm	White	1000
BGL013	15-17 mm	Red	1000
BGL014	15-17 mm	Green	1000
BGL015	15-17 mm	Blue	1000
BGL016	15-17 mm	Yellow	1000
BGL017*	11-13 mm	White	1000
BGL018	11-13 mm	Red	1000
BGL019	11-13 mm	Green	1000
BGL020	11-13 mm	Blue	1000
BGL021	11-13 mm	Yellow	1000

* These references are available under request



Code	For tubes of	Colour
BGL022	16 mm	Red
BGL023	12 mm	Green



Code	For tubes of	Colour
BGL501	Ø 12-13 mm	Blue
BGL502	Ø 12-13 mm	Silver
BGL503	Ø 12-13 mm	Gold
BGL504	Ø 12-13 mm	Garnet
BGL505	Ø 12-13 mm	Black
BGL506	Ø 15-16 mm	Blue
BGL507	Ø 15-16 mm	Silver
BGL508	Ø 15-16 mm	Gold
BGL509	Ø 15-16 mm	Garnet
BGL510	Ø 15-16 mm	Black
BGL511	Ø 17-18 mm	Blue
BGL512	Ø 17-18 mm	Silver
BGL513	Ø 17-18 mm	Gold
BGL514	Ø 17-18 mm	Garnet
BGL515	Ø 17-18 mm	Black



BGL - Tube caps

▶ Caps for biological culture tubes "Sero-Tap"



Code	For tubes	Colour
BGL516	Ø 19-20 mm	Blue
BGL517	Ø 19-20 mm	Silver
BGL518	Ø 19-20 mm	Gold
BGL519	Ø 19-20 mm	Garnet
BGL520	Ø 19-20 mm	Black
BGL521	Ø 28-30 mm	Blue
BGL522	Ø 28-30 mm	Silver
BGL523	Ø 28-30 mm	Gold
BGL524	Ø 28-30 mm	Garnet
BGL525	Ø 28-30 mm	Black



▶ Caps for biological culture tubes "Sero-Tap"



Code	For tubes	Colour
BGL527	Ø 12-13 mm	Blue
BGL529	Ø 12-13 mm	White
BGL534	Ø 12-13 mm	Green
BGL542	Ø 12-13 mm	Red
BGL543	Ø 12-13 mm	Yellow
BGL528	Ø 15-16 mm	Blue
BGL533	Ø 15-16 mm	Red
BGL544	Ø 15-16 mm	Green
BGL545	Ø 15-16 mm	White
BGL546	Ø 15-16 mm	Yellow
BGL526	Ø 18-19 mm	Yellow
BGL530	Ø 18-19 mm	White
BGL535	Ø 18-19 mm	Green
BGL547	Ø 18-19 mm	Blue
BGL548	Ø 18-19 mm	Red
BGL537	Ø 24-25 mm	Blue
BGL538	Ø 24-25 mm	Green
BGL539	Ø 24-25 mm	Red
BGL540	Ø 24-25 mm	White
BGL541	Ø 24-25 mm	Yellow
BGL536	Ø 37-38 mm	White



BGN - Microtubes

▶ Criotubes, PP



1| Non-sterile autoclavable. They support temperatures up to -190 °C, suitable for freezers, ultrafreezers or liquid nitrogen.

Code	Cap.	Diameter	Height	Graduation	Pack
BGN001	2 mL	10 mm	45 mm	0,5 mL	B/500
BGN002	5 mL	15 mm	57 mm	1,0 mL	B/200



▶ PCR microtube PP



1| Conical bottom, with flat top. Bag of 1000 units.
2| Autoclavable, can be frozen at -20 °C.

Code	Capacity
BGN003	0,2 mL





BGN - Microtubes

PCR microtubes, High Quality



- 1 | They are certified and biologically inert, completely free of DNase, RNase, endotoxins and pyrogens
- 2 | Micro tubes have a large labeling area and a permanent graduation resistant to chemicals, abrasives and scratches
- 3 | Sterile tubes are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards

Code	Cap.	Width	Pack	Steril
BGN026	0,2 mL	Conic	B/25 uds	No

PCR microtubes, PP



- 1 | Conical bottom, including strip of covers.
- 2 | Autoclavable, can be frozen at -20 °C
- 3 | Bag of 200 units.

Code	Description	Capacity
BGN006	8 microtubes strip	0.2 mL
BGN007	12 microtubes strip	0.2 mL

Micro Centrifuge Tube, High Quality



- 1 | They are certified and biologically inert, completely free of DNase, RNase, endotoxins and pyrogens
- 2 | Micro tubes have a large labeling area and a permanent graduation resistant to chemicals, abrasives and scratches
- 3 | Sterile tubes are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards

Code	Capacity	Width	Pack	SteriL
BGN027	1,7 mL	Conic	1000 uds/ pack	No

Centrifuge microtube PP



- 1 | Graduated, conical bottom and lid attached to the body.

Code	Capacity	Pack
BGN004	0.5 mL	B/1000
BGN005	1.5 mL	B/500
BGN025	2 mL	B/500



▶ BGN - Microtubes

▶ Microtest tubes PP and PE, white

Kartell

- 1 | Can be used with centrifugation up to max. RCF 11.000 xg
- 2 | Bag of 1000 units.

Code	Description	Cap.	Type
BGN008	Without cap	1,5 mL	Eppendorf
BGN009	With cap	0,5 mL	Vitraton
BGN010*	With cap	0.5 mL	Beckman

* These references are available under request


AUTO
+121°

IVD
in vitro
diagnostic

▶ Microtubes PP and PE, colours

Kartell

- 1 | Can be used with centrifugation up to max. RCF 21.000 xg.
- 2 | 1000 unit bag, type Eppendorf.
- 3 | With cap.

Code	Colour	Capacity
BGN016	Neutral	1.5 mL
BGN017	Blue	1.5 mL
BGN018	Yellow	1.5 mL
BGN019	Green	1.5 mL
BGN020*	Pink	1.5 mL

* These references are available under request


IVD
in vitro
diagnostic

AUTO
+121°

▶ Microtubes PP and PE graduated

Kartell

- 1 | Can be used with centrifugation up to max. RCF 11.000 xg.
- 2 | Flat cap, with area reserved for writing.
- 3 | 1000 unit bag, Eppendorf type.

Code	Colour	Capacity
BGN011	Neutral	1.5 mL
BGN012	Blue	1.5 mL
BGN013	Yellow	1.5 mL
BGN014*	Green	1.5 mL
BGN015	Pink	1.5 mL

* These references are available under request



▶ COBAS-BIO and COBAS-MIRA test tubes

Kartell

- 1 | Bag of 1000 units, type Cobas.

Code	Colour	Capacity
BGN021	Neutral	0,70 mL
BGN022	Blue	0,70 mL
BGN023*	Yellow	0,70 mL
BGN024*	Orange	0,70 mL

* These references are available under request





BGQ - Recipients for samples

▶ Sputum container, PP

IVD
in vitro
diagnostic**Kartell**

1| Autoclavable, with totally watertight closing cap.

Code	Total height (w/lid)	Nominal capacity	Pack
BGQ038*	31 mm	22 mL	B/1000 pcs
BGQ001*	34,10 mm	30 mL	B/500 pcs

* These references are available under request

▶ Feaces container, PS

IVD
in vitro
diagnostic**Kartell**1| Made of polystyrene and spoon of polypropylene
2| Stopper and spoon in one piece

Code	Capacity	DxL	Units/Lot
BGQ002	15 mL	22,22x79,50 mm	1000
BGQ036	44 mL	41x55 mm	360
BGQ042	44 mL, estéril	41x55 mm	400

▶ Sample vials, PE



APTO

Kartell

1| Cap attached to container. Product suitable for contact with food.

Code	Capacity	DxL	Units/Lot
BGQ003	1 mL	8x32 mm	500
BGQ004	2,5 mL	14x31,5 mm	100
BGQ005	8 mL	17,2x57,6 mm	100
BGQ006	7 mL	22,8x32,9 mm	100
BGQ007	20 mL	24,8x74,5 mm	100
BGQ008*	35 mL	31x74,5 mm	50
BGQ009	25 mL	31,3x74,5 mm	50
BGQ010	5 mL	15x49 mm	100

* These references are available under request

▶ Screw cap container, LDPE



APTO

Kartell1| Perfectly watertight closure. Excellent chemical resistance.
2| Product suitable for contact with food.

Code	Capacity	Diameter	Height
BGQ011*	5 mL	21 mm	35,7 mm
BGQ012	10 mL	21 mm	58,4 mm
BGQ013	30 mL	35 mm	53 mm
BGQ014	60 mL	35 mm	94,2 mm
BGQ015	90 mL	54,5 mm	63,4 mm
BGQ016	180 mL	54,5 mm	109,6 mm

* These references are available under request



▶ BGQ - Recipients for samples

▶ Scintillation vials

Kartell

Code	Capacity	Diameter	Height(w/cap)	Pack
BGQ017*	20 mL, macro	26,5 mm	60,10 mm	1000 uds
BGQ018*	4 mL, mini	13,71 mm	53,60 mm	2000 uds

* These references are available under request



IVD
in vitro
diagnostic

▶ Coulter counter cup, PS

Kartell

1| For Toa and Royco-Hycel blood count

Code	Diameter	Height	Pack
BGQ019	30 mm	56 mm	200 uds



IVD
in vitro
diagnostic

▶ Stirrers for cuvettes

Kartell

Code	Lenght	Diameter	Pack
BGQ020*	90 mm	3 mm	100 uds

* These references are available under request



IVD
in vitro
diagnostic

▶ Sample tubes, PTFA

Kartell

1| Graduated to 10 mL.
2| With screw cap PFA GL 25.

Code	Capacity	Height	Diameter
BGQ021*	15 mL	110 mm	22 mm

* These references are available under request



▶ Sample containers, PTFE

Kartell

1| With screw cap PFA

Code	Capacity	Height	Diameter	GL
BGQ022*	30 mL	54 mm	38 mm	40
BGQ023*	60 mL	90 mm	38 mm	40
BGQ024	90 mL	62 mm	54 mm	56
BGQ025	180 mL	112 mm	54 mm	56

* These references are available under request





▶ BGQ - Recipients for samples

▶ Technicon cups, Beckman, Konelab in PS

KartellIVD
in vitro
diagnostic

1 | Some references have a plug with optional pressure closure.

Code	Capacity	Height x Diameter	Pack
BGQ026*	1,5 mL	22,6x13,8 mm	1000
BGQ027*	2 mL	24,9x13,7 mm	1000
BGQ028*	1,5 mL	24,7x13,9 mm	1000
BGQ029	4 mL	37,9x17,26 mm	1000

* with snap-on lid part no. BGQ033, optional

▶ Centrifichem cups, Technicon and Beckman in **Kartell**IVD
in vitro
diagnostic

1 | Some references have a plug with optional pressure closure.

Code	Capacity	Height x Diameter	Pack
BGQ030*	0,25 mL	16,4x13,7 mm	1000
BGQ031*	0,50 mL	24,5x13,55 mm	1000
BGQ039	2,00 mL	38x16,75 mm	1000

* pressure cap reference BGQ032 and BGQ033 optional

▶ Cross cut caps, PE

KartellIVD
in vitro
diagnostic

1 | CODE.: BGQ032: for packages BGQ030 and BGQ031

2 | CODE.: BGQ033: for packages BGQ026, BGQ027, BGQ028, BGQ029, BGQ030, BGQ031.

Code	Description	Height x Diameter	Pack
BGQ032	Anti-evaporation	15,7x5,9 mm	1000
BGQ033	Pressurized	16x8,5 mm	1000

▶ PS container, snap-on

KartellIVD
in vitro
diagnostic

Code	Capacity	Height	Diameter	Pack
BGQ034*	30 mL	41 mm	34 mm	800 uds
BGQ035*	35 mL	60 mm	34 mm	750 uds

* These references are available under request

▶ Screw cap container, PS

KartellIVD
in vitro
diagnostic

1 | Volumen de 60 mL con tapón a rosca PE y volumen de 200 mL con tapón a rosca de PP.

Code	Capacity	Diameter	Pack
BGQ051	60 mL	39 mm	600
BGQ052*	60 mL	39 mm	400
BGQ037*	200 mL	66 mm	500
BGQ043	200 mL	66 mm	200

* These references are available under request



▶ BGQ - Recipients for samples

▶ Rods for detach, clot

Kartell

1 | Disposable polyethylene rods for detaching and removing clots.

Code	Length	Units/Lot
BGQ041*	156,5 mm	500


 IVD
in vitro
diagnostic

▶ PP screw cap container

Kartell

1 | With watertight screw cap.

Code	Capacity	Diameter	Pack
BGQ044	30 mL	35 mm	600 uds
BGQ045*	30 mL	35 mm	400 uds
BGQ046	60 mL	35 mm	600 uds
BGQ047	60 mL	35 mm	400 uds

* These references are available under request

 sterile single pack

 IVD
in vitro
diagnostic

1 | The sterile and aseptic versions have red screw caps and satin writing surfaces. They are supplied in individual packaging.

2 | The non-sterile version has a blue screw cap.

Code	Tapón	Capacity	Diameter	Pack
BGQ055	Blue	150 mL	62,5 mm	500 uds
BGQ056	Red	150 mL	62,5 mm	250 uds
BGQ057	Red	150 mL	62,5 mm	250 uds
BGQ058	Blue	200 mL	66 mm	600 uds
BGQ059	Red	200 mL	66 mm	200 uds

 sterile

 aseptic

 IVD
in vitro
diagnostic

▶ Urine container PP

Kartell

1 | With watertight screw cap.

Code	Capacity	Diameter	Pack
BGQ048	60 mL	38 mm	600
BGQ049	60 mL	38 mm	400

 sterile single pack

 IVD
in vitro
diagnostic

▶ Screw cap bottle with spoon, PS

Kartell

1 | With PE cap.

Code	Description	Capacity	Diameter	Pack
BGQ050	Screw cap with spoon	30 mL	25 mm	400
BGB024	Sterile with spoon	30 mL	25 mm	400
BGQ053	Screw cap with spoon	60 mL	39 mm	600
BGQ054	Sterile screw cap with spoon	60 mL	39 mm	400


 IVD
in vitro
diagnostic



▶ BGQ - Recipients for samples

▶ Sample containers "CONTESEL"



1 | Designed for dispensing, storage or preservation of organic and inorganic samples.

Code	Capacity	Colour	Total height
BGQ501	100 mL	violet	7 cm

▶ Container "CRYO 1 °C COOLER"



1 | Freezer container with constant reproducible progressive cooling rate of 1 °C/min

Code	Capacity	Size
BGQ503	18 cryo tubes of 1.2 to 2 mL	86x117 mm

▶ BGS - Butirometers

▶ Butyrometer

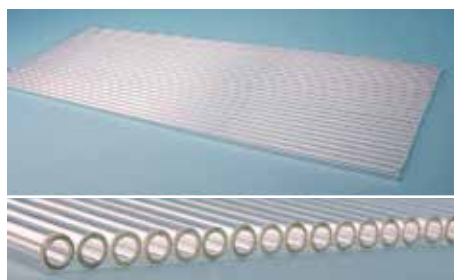


Code	Description	Accuracy
BGS001*	Full cream milk	0/6%
BGS002	For Roeder cream	0/4%

* These references are available under request

▶ BGV - Others

▶ Kg of borosilicate glass tube



Code	Diameter	Lenght
BGV001	7 mm	500 mm



▶ BGV - Others

▶ Thiele tube



1 | Borosilicate glass.

Code	Diameter	Lenght	Capacity
BGV002	24 mm	150 mm	40 mL



▶ Nessler tube



1 | Flat bottom and peak

Code	Diameter	Lenght	Capacity
BGV003	27 mm	210 mm	50/100 mL



▶ Cobas segments in rack, PMMA



1 | Multi-cell segment with 12 positions for Cobas Mira.

Code	Description	Pack
BGV004	Rack de 15 pieces	450 pcs
BGV005*	Pack individual	450 pcs

* These references are available under request



IVD
in vitro
diagnostic

▶ Olli cuvette, PS



1 | Olli-C-analyzer cuvettes packaged in 192-unit expanded polystyrene boxes.

Code	Capacity	DxL	Pack
BGV006*	4 mL	11,9x34,5 mm	192 pcs

* These references are available under request



IVD
in vitro
diagnostic

▶ Cuvettes for fibrintimer PS



1 | Supplied with 500 metal mixers.

Code	Capacity	DxL	Pack
BGV007	1,3 mL	11,9x34,5 mm	500



IVD
in vitro
diagnostic



▶ BGV - Others

▶ Amelung cuvettes, PS

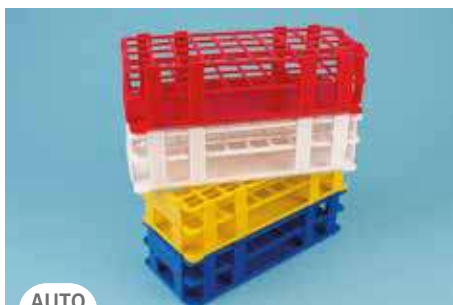
IVD
in vitro
diagnostic

▶ Glass tube cutter



▶ BJB - For tubes, plastic

▶ PP test tube rack

AUTO
+121°**Kartell**

1 | Supplied with 1,000 metal balls, part number BGV008 only.

Code	Capacity	DxL	Pack
BGV008	1 mL	11,25x22,8 mm	1000
BGV009	1 mL	11,25x22,8 mm	1000

Nahita

Code	For diameter up to
BGV010	30 mm



Code	Diameters up to
BGV500	30 mm

ENDO
plasticware

1 | Stackable, alphanumerically identified holes.

Code	Holes	Diameter	Alignment	Colour
BJB001	90	13 mm	6x15	White
BJB002	90	13 mm	6x15	Blue
BJB003	90	13 mm	6x15	Red
BJB004	90	13 mm	6x15	Yellow
BJB005	60	16 mm	5x12	White
BJB006	60	16 mm	5x12	Blue
BJB007	60	16 mm	5x12	Red
BJB008	60	16 mm	5x12	Yellow
BJB009	40	20 mm	4x10	White
BJB010	40	20 mm	4x10	Blue
BJB011	40	20 mm	4x10	Red
BJB012	40	20 mm	4x10	Yellow
BJB013	24	25 mm	3x8	White
BJB014	24	25 mm	3x8	Blue
BJB015	24	25 mm	3x8	Red
BJB016	24	25 mm	3x8	Yellow
BJB017	21	30 mm	3x7	White
BJB018	21	30 mm	3x7	Blue
BJB019	21	30 mm	3x7	Red
BJB020	21	30 mm	3x7	Yellow



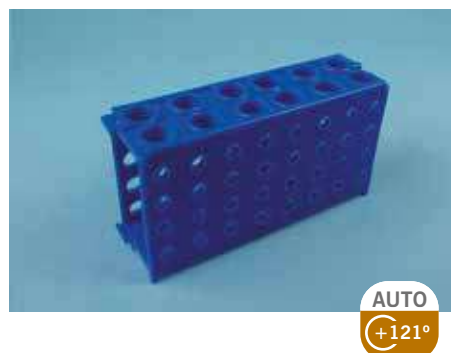
▶ BJB - For tubes, plastic

▶ Multiposition rack



- 1| They have side fittings to join several racks.
- 2| For tubes of different sizes depending on how the rack is placed.

Code	N° tubos	Tube diameter	Alignment
BJB026	32	11 mm	4x8
	12	16 mm	2x6
	4	29 mm	1x4



▶ Plexiglas test tubes



Code	Holes	Tube diameter	Alignment	Dimensions (LxAxH)
BJB027	12	14 mm	2x6	105x55x50 mm
BJB028*	24	14 mm	2x12	205x55x50 mm
BJB029	48	14 mm	4x12	220x90x50 mm
BJB030	6	22 mm	2x3	140x95x100 mm
BJB031	12	22 mm	2x6	175x95x100 mm
BJB032	6	32 mm	2x3	140x95x75 mm
BJB033	12	32 mm	2x6	225x95x75 mm
BJB034	24	32 mm	2x12	-



▶ Multi support rack



- 1| Autoclavable

Code	Holes	Tube diameter	Colour
BJB021	40	17-20 mm	Red
BJB022	50	14-17 mm	White
BJB023	80	10-13 mm	White



▶ Test tube stand, PP



- 1| Removable

Code	Holes	Tube diameter	Dimensions (LxAxH)
BJB035	31	13 mm	270x65x120 mm



▶ Test tube rack, PP



- 1| Supports temperatures up to 120 °C, can be used in water baths.

Code	Holes	Diameter	Dimensions (LxAxH)
BJB036	10	16 mm	55x220x62,6 mm
BJB037	9	18 mm	55x220x65 mm
BJB039	8	20 mm	54x220x65,5 mm





BJB - For tubes, plastic

Test tube rack holder

**Kartell**

1 | It can contain two tube holder references BJB036, BJB037 and BJB039.

Code	Holes	Dimensions (LxAxH)
BJB038*	2	156x202x13,5 mm

* These references are available under request

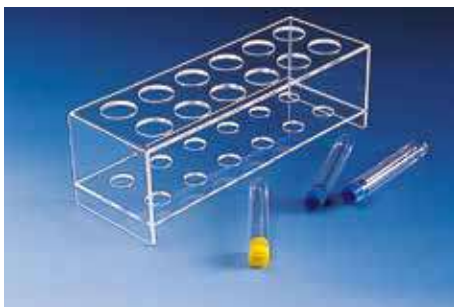
Test tube rack 2 levels

**Kartell**

1 | Autoclavable, withstands temperatures up to 120 °C

Code	Holes	Diameter	Dimensions (LxAxH)
BJB040	10	18 mm	250x60x74 mm
BJB041	12	12 mm	190x60x80 mm
BJB042	12	20 mm	190x60x80 mm
BJB043	24	20 mm	375x65x95 mm

Tube racks 2 levels, holes PMMA (plexiglas)

Kartell

Code	Holes	Diameter	Dimensions (LxAxH)
BJB044	12	28 mm	90,2x255,4x81
BJB045	12	35 mm	97,5x289x81
BJB046	12	40 mm	110,5x316x81

Tube trays

Kartell

Code	Holes	Diameter	Depth
BJB047	250	8,5 mm	15 mm
BJB048	119	14,5 mm	18 mm
BJB049	96	16,5 mm	22 mm



▶ BJB - For tubes, plastic

▶ Test tube rack, PP

Kartell

1 | Stackable and detachable.

Code	Holes	Alignment	Diameter	Colour
BJB050	90	6x15	13 mm	White
BJB051	90	6x15	13 mm	azul
BJB052	90	6x15	13 mm	Yellow
BJB053	90	6x15	13 mm	Red
BJB054	60	5x12	16 mm	White
BJB055	60	5x12	16 mm	Blue
BJB056*	60	5x12	16 mm	Yellow
BJB057	60	5x12	16 mm	Red
BJB058	40	4x10	20 mm	White
BJB059	40	4x10	20 mm	Blue
BJB060	40	4x10	20 mm	Yellow
BJB061	40	4x10	20 mm	Red
BJB062	40	4x10	20 mm	White
BJB063	40	4x10	20 mm	Blue
BJB064	40	4x10	20 mm	Yellow
BJB065	40	4x10	20 mm	Red
BJB066	24	3x8	30 mm	White
BJB067	24	3x8	30 mm	Blue
BJB068	24	3x8	30 mm	Yellow
BJB069	24	3x8	30 mm	Red

* These references are available under request



AUTO
+121°

▶ Test tube racks, coloured, PP

VITLAB

1 | Suitable for tempering in a water bath as well as storage of samples in the refrigerator and incubation in a climate chamber.

Code	For Ø up to	Positions	Height	Colour
BJB500	13 mm	6x14	75 mm	White
BJB501	16 mm	5x11	75 mm	White
BJB502	18 mm	5x11	75 mm	White
BJB503	20 mm	4x10	75 mm	White
BJB505	30 mm	3x7	88 mm	White
BJB506	13 mm	6x14	75 mm	Blue
BJB507	16 mm	5x11	75 mm	Blue
BJB508	18 mm	5x11	75 mm	Blue
BJB509	20 mm	4x10	75 mm	Blue
BJB511	30 mm	3x7	88 mm	Blue
BJB512	13 mm	6x14	75 mm	Red
BJB513	16 mm	5x11	75 mm	Red
BJB514	20 mm	4x10	75 mm	Blue
BJB517	30 mm	3x7	88 mm	Red

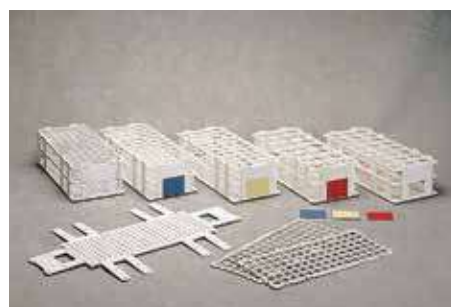


▶ Propisel racks

SELECT

1 | Made of high density white polypropylene.

Code	N° Tubes	For Ø up to	Dimensions
BJB518	90	13 mm	7x10.5x25 mm
BJB519	60	16 mm	7x10.5x25 mm
BJB520	40	20 mm	7x10.5x25 mm
BJB521	24	25 mm	7x10.5x25 mm
BJB522	21	30 mm	7x10.5x25 mm





▶ BJB - For tubes, plastic

▶ Propisel-fix racks



1 | Made of high density polypropylene.

Code	N° Tubes	For Ø up to	Dimensions
BJB523	90	11 to 13 mm	7x10.5x25 mm
BJB524	60	14 to 16 mm	7x10.5x25 mm
BJB525	40	19 to 20 mm	7x10.5x25 mm

▶ Transparent methacrylate racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJB526	Methacrylate	11 mm	25 (5x5) mm	85x80x35x30mm

▶ Multi support tube rack



Code	Spikes	For Ø up to
BJB527	80	10-13 mm

▶ With rack linking guides



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJB528	Stainless steel	14 (7x2)	12 mm	160x62x65mm
BJB529	Stainless steel	24 (8x3)	16 mm	160x62x65mm



▶ BJB - For tubes, plastic

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▶ Transparent methacrylate racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJB530	Trans methacrylate	24 (8x3)	12 mm	170x90x50x50mm
BJB531	Trans methacrylate	24 (8x3)	16 mm	190x100x60x60mm
BJB532	Trans methacrylate	24 (8x3)	22 mm	255x150x80x80mm
BJB533	Trans methacrylate	24 (8x3)	26 mm	300x170x110x110mm



▶ BJD - For tubes, metal

▶ Test tube rack Z-shaped



1 | In anodized aluminium, high resistance to chemical and corrosive agents.

Code	Holes	Diameter	Dimensions (LxH)
BJD001	50	12 mm	170x995x55 mm
BJD002	50	14,5 mm	200x110x55 mm
BJD003	50	17,0 mm	225x120x68 mm



▶ Stainless steel rack



1 | Very resistant, ideal for conical bottom tubes.

Code	Holes	Diameter	Alignment
BJD004	12	13 mm	3x4
BJD005	24	13 mm	3x8
BJD006	50	13 mm	5x10
BJD007	100	13 mm	10x10
BJD008	12	16 mm	2x6
BJD009	24	16 mm	3x8
BJD010	50	16 mm	5x10
BJD011	72	16 mm	6x12
BJD012	100	16 mm	10x10
BJD013	24	18 mm	3x8
BJD014	50	18 mm	5x10
BJD015	72	18 mm	6x12
BJD016	100	18 mm	10x10
BJD017	12	25 mm	2x6
BJD018	24	25 mm	3x8
BJD019	50	25 mm	5x10
BJD020	72	25 mm	6x12



AUTO
+121°



BJD - For tubes, metal

▶ Stainless steel rack

AUTO
+121°

1 | Made of AISI 304 steel, autoclavable. Reinforced and stackable corners.

Code	Holes	Diameter	Alignment
BJD022	24	10 mm	6x4
BJD023	50	12 mm	10x5
BJD025	24	14 mm	6x4
BJD026	24	16 mm	6x4
BJD027	50	16 mm	10x5
BJD028	24	18 mm	6x4
BJD029	50	18 mm	10x5
BJD030	24	20 mm	6x4
BJD031	50	20 mm	10x5
BJD032	24	22 mm	6x4
BJD033	24	30 mm	6x4
BJD034	24	18 mm	6x4
BJD035	24	30 mm	6x4
BJD036*	50	12 mm	10x5
BJD037*	24	12 mm	6x4

* para viales

▶ With decanting aid



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD500	Anod, aluminium silver	120 (15x8)	11 mm	300x170x50mm
BJD501	Anod, aluminium silver	120 (15x8)	14 mm	300x170x50mm

▶ Accessories "Clinic-Term"



Code	Tubes	Ø Diameter
BJD502	14	18 mm

▶ Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD503	Stainless steel	50 (10x5)	13 mm	162x84x35x35mm
BJD505	Stainless steel	50 (10x5)	13 mm	162x84x60x60mm
BJD507	Stainless steel	50 (10x5)	18 mm	210x110x40x40mm
BJD509	Stainless steel	50 (10x5)	18 mm	210x110x60x60mm
BJD511	Stainless steel	50 (10x5)	18 mm	210x110x85x85mm



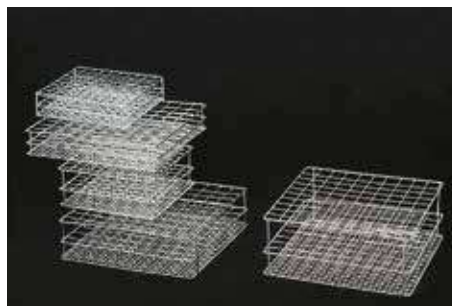
BJD - For tubes, metal

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▶ Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD504	Stainless steel	100 (10x10)	13 mm	162x162x35x35mm
BJD506	Stainless steel	100 (10x10)	13 mm	162x162x60x60mm
BJD508	Stainless steel	100 (10x10)	18 mm	210x210x40x40mm
BJD510	Stainless steel	100 (10x10)	18 mm	210x210x60x60mm
BJD512	Stainless steel	100 (10x10)	18 mm	210x210x85x85mm



▶ Stackable and numeric



Code	Tube capacity	For Ø up to	Dimensions
BJD513	50 mL	11 mm	60x165x95mm
BJD514	50 mL	16 mm	60x220x110mm



▶ Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD515	PVC coated	12 (4 x 3)	13 mm	65x50x65x50mm
BJD524	Stainless steel	12 (4 x 3)	13 mm	65x50x65x50mm



▶ Racks for ultrasonic reciprocating series



Code	Tube Ø	N tubes	Dimensions
BJD516	13 mm	70	8.5x11x34mm
BJD517	16 mm	48 mm	8.5x11x34mm
BJD518	20 mm	48 mm	8.5x11x34mm



▶ Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD519	Stainless steel	24 (6 x 4)	13 mm	95x70x70x60mm





BJD - For tubes, metal

► Suitable for Falcon tubes with lids



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD520	Stainless steel	15 (5x3)	16 mm	120x80x90x75mm
BJD521	Stainless steel	8 (4x2)	30mm	145x80x90x75mm

► Suitable for Nessler tubes



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD522	Stainless steel	12 (6x2)	40 mm	260x90x110x95mm
BJD523	Stainless steel	24 (8x3)	40 mm	345x130x110x95mm

► Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD525	Stainless steel	12 (6x2)	16 mm	120x45x80x65mm
BJD528	Stainless steel	24 (8x3)	40 mm	345x130x110x95mm
BJD531	Stainless steel	24 (8x3)	40 mm	345x130x110x95mm
BJD534	Stainless steel	24 (8x3)	40 mm	345x130x110x95mm

► Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD526	Stainless steel	24 (8x3)	16 mm	160x65x80x65mm
BJD529	Stainless steel	24 (8x3)	25 mm	235x95x110x95mm
BJD532	PVC coated wire	24 (8x3)	16 mm	160x65x80x65mm
BJD535	PVC coated wire	24 (8x3)	25 mm	235x95x110x95mm



▶ BJD - For tubes, metal

▶ Tube racks



Code	Made of	N° of tubes	For Ø up to	Dimensions
BJD527	Stainless steel	48 (8x6)	16 mm	160x125x80x65mm
BJD530	Stainless steel	48 (8x6)	25 mm	235x180x110x95mm
BJD533	PVC coated wire	48 (8x6)	16 mm	160x125x80x65mm
BJD536	PVC coated wire	48 (8x6)	25 mm	235x180x110x95mm



▶ Circular racks



1 | Suitable for the "Baher" and "Univeba" baths

Code	N° of tubes	For Ø up to	Dimensions
BJD537	24	13 mm	138 mm Ø x 120mm
BJD573	24	18 mm	138 mm Ø x 120mm



▶ BJG - For tubes, wood

▶ Wooden rack



Code	Holes	Diameter	Alignment
BJG505	12	22 mm	1x12



▶ BJJ - For tubes, PVC

▶ For tubes of 13 mm diameter



Code	Alignment	Holes	Dim.(LxAxH)
BJJ001	2x3	6	55x45x40 mm
BJJ002	1x6	6	112x38x40 mm
BJJ003	2x6	12	118x48x40 mm
BJJ004*	1x12	12	250x44x40 mm
BJJ005*	2x12	24	255x48x40 mm
BJJ006	1x24	24	490x50x40 mm
BJJ007	3x16	45	310x75x40 mm
BJJ008	5x10	50	195x105x40 mm
BJJ009	5x12	60	200x131x40 mm
BJJ010	10x10	100	195x195x40 mm
BJJ011	7x20	140	410x150x40 mm
BJJ012	10x15	150	291x195x40 mm

* These references are available under request





▶ BJJ - For tubes, PVC

▶ For tubes of 16 mm diameter

**Nahita**

Code	Alignment	Holes	Dim.(LxAxH)
BJJ013*	2x6	12	160x60x40 mm
BJJ014	2x12	24	268x65x40 mm
BJJ015	2x6	12	160x60x65 mm
BJJ016	2x12	24	268x65x65 mm

* These references are available under request

▶ For tubes of 22 mm diameter

**Nahita**

Code	Alignment	Holes	Dim.(LxAxH)
BJJ017	2x6	12	182x68x65 mm
BJJ018	2x12	24	350x82x658 mm
BJJ019	2x3	6	185x65x90 mm
BJJ020	2x6	12	182x68x90 mm
BJJ022	2x12	24	350x83x90 mm

▶ For tubes of 32 mm diameter

**Nahita**

Code	Alignment	Holes	Dim.(LxAxH)
BJJ023	2x3	6	130x90x65 mm
BJJ024	1x6	6	290x58x65 mm
BJJ025	2x4	8	185x95x65 mm
BJJ026	2x6	12	250x85x65 mm

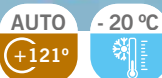
▶ For tubes of 50 mm diameter

**Nahita**

Code	Alignment	Holes	Dim.(LxAxH)
BJJ027	2x3	6	177x120x60 mm
BJJ028	2x4	8	250x130x60 mm
BJJ029	2x2	4	150x150x60 mm
BJJ030	2x3	6	220x150x60 mm
BJJ031	2x3	6	220x152x60 mm

▶ BJL - For microtubes

▶ Rack polypropylene

**IENDO**
plasticware

1 | With Capacity for 60 microtubes

Code	For tubes of	Colour	Dim. (LxAxH)
BJL001	0.5/1.5 mL	Orange	210x73x24 mm
BJL002	0.5/1.5 mL	Blue	210x73x24 mm
BJL003	0.5/1.5 mL	Green	210x73x24 mm
BJL004	0.5/1.5 mL	Red	210x73x24 mm



▶ B JL - For microtubes

▶ Tube rack for micro Tube

Kartell

1 | Positions marked alphanumerically. Autoclavable. Withstand temperatures down to -20 °C.

Code	Dimensions (LxAxH)	Diameter	Colour
BJL011	109,5x263x45 mm	10,8 mm	White
BJL012	109,5x263x45 mm	10,8 mm	Blue
BJL013	109,5x263x45 mm	10,8 mm	Yellow
BJL014	109,5x263x45 mm	10,8 mm	Red



▶ Polypropylene tube rack

Kartell

1 | Positions marked alphanumerically.

Code	Holes	For tubes of	Dimensions (LxAxH)
BJL010	20	1,5 mL	90x210x49 mm



▶ Stainless Steel rack

ENDO
plasticware

1 | Autoclavables. Reinforced and stackable corners

Code	Holes	For tubes of	Disposition
BJL015	25	1,5 mL	5x5
BJL016	50	1,5 mL	5x10



AUTO
+121°

▶ Microtube racks, coloured, PP

VITLAB

1 | Suitable for tempering in a water bath.

Code	For Ø up to	Positions	Height	Colour
BJL503	11 mm	8x14	38 mm	White
BJL504	13 mm	6x14	38 mm	White
BJL505	11 mm	8x14	38 mm	Blue
BJL506	13 mm	6x14	38 mm	Blue
BJL507	11 mm	8x14	38 mm	Red
BJL508	13 mm	6x14	38 mm	Red





▶ B JL - For microtubes

▶ Rack for Clinic-Term



Code	N° of micro-tubes	For Ø up to
BJL509	50	11 mm

▶ Circular rack



1 | Made in polyethylene

Code	N° of micro-tubes	For Ø up to
BJL510	4	25 mm
	8	19 mm
	16	Side down peg tube supports

▶ Rack for 1.5 and 2 ml microtubes



1 | Made of Polycarbonate, stackable, numbered positions and autoclavable.

Code	N° of micro-tubes	For Ø up to
BJL511	24	11 mm

▶ Rack for 1.5 and 2 ml microtubes



1 | Made of solid polypropylene, ideal for refrigerator and freezer storage.

Code	N° of micro-tubes
BJL512	80

▶ Floating tube rack 1.5 and 2 ml micro-tubes



1 | Made of polypropylene, with a support to hold microtubes.

Code	Capacity	Dimensions
BJL513	16 microtubes	4x10x10 cm



▶ B JL - For microtubes

▶ Rack for 20 microtubes of 1.5 to 2 ml



1 | Made of polypropylene. Racks can be linked and fitted together.

Code	Total length
BJL514	21 cm



▶ Reversible tube racks for 0.5 - 1.5 and 2 ml tubes



1 | Made of polypropylene. Racks can be linked and fitted together.
2 | Height 26 mm, with lid 50 mm. Width 115 mm. Length 250 mm.

Code	Face	Micro-tubes	Capacity
BJL515	A	96	0,5 mL
	B	96	1,5 to 2 mL



▶ B JN - For pipettes

▶ Pipette tray

Kartell

1 | To contain 30 pipettes, divided into 4 compartments of 1, 2, 5 and 10 mL

Code	Dimensions (LxAxH)
BJN001	300X426X30 mm



▶ PP stand for pipettes and thermometers

IENDO
plasticware

1 | With Capacity for 12 units up to 10 mm in diameter Made of PP.

Code	Dimensions (LxAxH)
BJN009	205x150x220 mm



▶ Vertical pipette holder

Kartell

1 | For 8 pipettes with a maximum diameter of 15 mm. The base has small drainage holes.

Code	Dimensions (LxAxH)
BJN002	200x75x150 mm





BJN - For pipettes

Pipette stand, pp

**Kartell**

- 1 | Polypropylene surface.
- 2 | For 94 pipettes with a maximum diameter of 14 mm.

Code	Diameter	Height
BJN003	230 mm	470 mm

PVC pipette stand

**Kartell**

- 1 | The base has small drainage holes. It can be coupled with bars of diameters between 8 and 14 mm
- 2 | The stand has a Capacity of 18 small pipettes with a maximum diameter of 10 mm and 10 large pipettes with a maximum diameter of 15 mm.
- 3 | The stand is height adjustable.

Code	Description	Diameter
BJN004	Round base with PVC rod	230 mm
BJN005	Round pipette stand	175 mm

Round pipette holder

**ENDO**
plasticware

- 1 | For 44 pipettes of different volumes

Code	Description	Capacity
BJN008	Round pipette holder	32 holes of 13 mm

Deep tray for pipettes

**Kartell**

- 1 | It accepts 7 pipettes placed lengthwise with a diameter not exceeding 20 mm or 16 pipettes placed laterally with a diameter not exceeding 10 mm.

Code	Dimensions (LxAxH)
BJN006	216x283x40 mm

Serological pipettes holder, PMMA

**Kartell**

- 1 | It has 4 sloping shelves and a white top board.

Code	Dimensions (LxAxH)	Dim. compartments (LxAxH)
BJN007*	300x100x420 mm	290x85x89 mm

* These references are available under request



▶ BJN - For pipettes

▶ Pipette stand, PP



1 | The stable base has a rotatable, ribbed base plate in which the pipette tips can be gently seated.

Code	Ø mm	Height mm
BJN500	230 mm	470 mm



▶ Tilted support rack "SOP-INC"



1 | Suitable for pipettes, hydrometers and thermometers rack, made of methacrylate.

Code	Positions
BJN501	6



▶ Westergren sedimentation pipette support stand



- 1 | Supports pipettes with a replaceable vial type rubber plug. Easy to clean.
- 2 | Sectioned, tilted, 45 °C front panel scribe board for notes.
- 3 | Designed so that the tubes can be mounted only with one hand.

Code	Places
BJN502	3
BJN503	6
BJN505	12



▶ Pipette basket



1 | Stainless steel with electrobright finish

Code	Dimensions
BJN504	90 mm Ø x 250 mm high



▶ Thermometer and pipette rack



1 | Made of polypropylene.

Code	Positions
BJN508	12





▶ BJJ - For pipettes

▶ Pipette rack "STABIL"



- 1 | Made from polyethylene
- 2 | Stable heavy base with drain and two adjustable height supports.

Code	N° of micro-tubes	For Ø up to
BJN509	28	14 mm

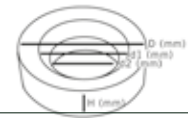
▶ BJQ - For flasks

▶ Cork support



DIMENSIONS - cork support

*D: external diameter
d1:diameter
d2:diameter
H:height*



Code	D	For flasks	d1	d2	H
BJQ001	80 mm	50-100 mL	50 mm	30 mm	30 mm
BJQ002	100 mm	250 mL	65 mm	45 mm	30 mm
BJQ003	120 mm	500 mL	90 mm	70 mm	30 mm
BJQ004	140 mm	1000 mL	110 mm	90 mm	30 mm
BJQ005	160 mm	2000 mL	125 mm	110 mm	30 mm

▶ Rubber support



- 1 | Can hold flasks up to 500 mL.

Code	Diameter	Height
BJQ006	90 mm	50 mm

▶ Support of PP



- 1 | Can hold flasks up to 10 L.

Code	Diameter	Height
BJQ007	160 mm	50 mm



▶ BJQ - For flasks

▶ Flask stand

Kartell

- 1 | From very small flasks to 10 L.
- 2 | The support admits hot flasks up to 100 °C. Autoclavable

Code	Diameter	Height
BJQ011	160 mm	49 mm



▶ Support ring Bibase

SAINT-GOBAIN

- 1 | Made of silicone, bibase, for 2 different sizes of flasks. Temperature range -60°C to +200°C.

Code	For flasks	Diameter
BJQ008	50-500 mL	46/80 mm
BJQ009	500-2000 mL	80/1220 mm
BJQ010	2000-6000 mL	120/162 mm



▶ Kjeldahl flask support

SELECTO

- 1 | Stainless steel with electrobright finish.

Code	Flask up to
BJQ500	500 mL



▶ Round bottom flask support

SELECTO

- 1 | Made of moulded rubber (E.P.D.M.). Temperature resistance up to 100 °C.

Code	Flask from	Dimensions
BJQ501	100 mL- 10 L	50 mm high x 160 mm Ø.



▶ BJS - For funnels

▶ Funnel holder, PP

Kartell

- 1 | Single or double for funnels from 25 mm (with adapter included) to 170 mm
- 2 | Can be mounted on 8 to 14 mm diameter finger bars.

Code	Places	For flasks
BJS001	1 place	25/170 mm
BJS002	2 place	25/170 mm





BJS - For funnels

▶ Support for separation funnel, PP

**Kartell**

- 1 | Horseshoe shape designed for separating funnels.
- 2 | Equipped with conical adapters for mounting on 8 to 14 mm bars.
- 3 | Cannot use funnels with undiameter less than 75 mm.

Code	Places	For flasks
BJS003	1 Place	125/1000 mm

▶ Metal Stand for 2 Funnels

**Nahita**

- 1 | Made of metal, supplied with support

Code	Capacity
BJS005	2 funnels
BJS006	4 funnels

▶ Filtering racks

**VITLAB**

- 1 | Funnel holder with base and adjustable height, made from PP, support stand made from aluminium,

Code	Positions	Base plate
BJS500	2	250x140 mm
BJS501	4	450x140 mm

▶ Decanting flask support



- 1 | Made of polypropylene.

Code	Flasks up to	Bosshead
BJS502	12 cm	No
BJS503*	30 - 150 mm	Yes

Complete with reduction ring.



▶ BMB - Plastic

▶ Tapered stoppers

Kartell

1 | According to DIN 12242. Body with 6 rings to guarantee a watertight seal.

Code	Cono NS	Colour
BMB001	7,5/16	Violeta
BMB002	10/19	Blue
BMB003	12/21	Green
BMB004	14/23	Brown
BMB005	19/26	Yellow
BMB006	24/29	Red
BMB007	29/32	Black
BMB008*	34/35	White

* These references are available under request



▶ Connection stopper, PP

Kartell

1 | Standard taper 1:10 suitable to guarantee a perfect watertightness on frosted surfaces.

Code	NS cone	Inferior diameter
BMB009	29/32	26,2 mm



▶ Standard joint stoppers, PP

VITLAB

1 | Stopper type A: With square-knob cap and red core. Stopper type B: With octagonal-knob cap and red core. Autoclavable at 121 °C (2 bar) according to DIN EN 285.

Code	Cono NS	Model
BMB500	10/19	A
BMB501	12/21	A
BMB502	14/23	A
BMB503	19/26	A
BMB504	24/29	A
BMB505	29/32	A
BMB506	34/35	B
BMB507	45/40	B
BMB508	60/46	B
BMB509	29/32	B



▶ BMC - Glass

▶ Glass stopper flat bottom

GLASSCO

Code	Frosted	Shape
BMC012	34/35	Hexagonal



ISO
12252



B

GENERAL USE - [BM] stoppers

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BMC - Glass

▶ Glass stopper tip bottom

ISO
12252BORO
3.3

Code	Frosted	Shape
BMC003	12/21	Hexagonal
BMC005	14/23	Hexagonal
BMC007	19/26	Hexagonal
BMC009	24/29	Hexagonal
BMC011	29/32	Hexagonal
BMC017	10/19	Hexagonal
BMC018	14/23	Hexagonal

▶ Stopper ground joint

BORO
3.3

Code	Frosted	Shape
BMC015	29/32	Without grooves
BMC016	14/23	With grooves



BMD - Conical shape, rubber

▶ Rubber stopper



Code	Superior diameter	Inferior diameter	Height
BMD097	23 mm	17 mm	26 mm
BMD098	26 mm	19 mm	26 mm
BMD099	29 mm	22 mm	28 mm
BMD100	33 mm	25 mm	27 mm
BMD103	45 mm	37 mm	30 mm
BMD106	60 mm	51 mm	36 mm
BMD107	67 mm	54 mm	38 mm
BMD108	75 mm	63 mm	39 mm
BMD109	80 mm	67 mm	40 mm
BMD110	84 mm	74 mm	42 mm
BMD111	94 mm	78 mm	45 mm
BMD112	102 mm	84 mm	50 mm
BMD115	13 mm	8 mm	17 mm
BMD132	120 mm	93 mm	55 mm



▶ BMD - Conical shape, rubber

▶ Red rubber stopper



Code	Inferior diameter	Superior diameter	Height
BMD116	6 mm	9,5 mm	17,4 mm
BMD117	9.5 mm	12 mm	15,6 mm
BMD118	11 mm	14,5 mm	20,5 mm
BMD119	13 mm	16 mm	20,5 mm
BMD120	14 mm	17,5 mm	20,3 mm
BMD121	15 mm	19,5 mm	22,5 mm
BMD122	17 mm	21 mm	25,25 mm
BMD123	19.5 mm	24 mm	26,25 mm
BMD124	21.5 mm	28 mm	31 mm
BMD125	27.5 mm	32 mm	32,35 mm
BMD126	29 mm	34 mm	34,4 mm
BMD127	31.5 mm	39,5 mm	43,6 mm
BMD128	36.5 mm	43,5 mm	44,6 mm
BMD129	43.5 mm	57,5 mm	46 mm
BMD130	45 mm	56 mm	42,2 mm



Kartell

Code	Inferior diameter	Superior diameter	Height
BMD071	6 mm	9 mm	18 mm
BMD072	9 mm	12 mm	18 mm
BMD073	10 mm	13 mm	18 mm
BMD078	11 mm	15 mm	18 mm
BMD079	12 mm	16 mm	20 mm
BMD080	13 mm	18 mm	22 mm
BMD081	14 mm	20 mm	24 mm
BMD082	16 mm	23 mm	26 mm
BMD083	19 mm	26 mm	28 mm
BMD084	21 mm	30 mm	29 mm
BMD085	25 mm	32 mm	34 mm
BMD086	28 mm	37 mm	37 mm
BMD087	32 mm	42 mm	41 mm
BMD088	34 mm	45 mm	45 mm
BMD089	37 mm	48 mm	50 mm
BMD090	41 mm	54 mm	53 mm
BMD091	43 mm	60 mm	60 mm
BMD092*	52 mm	65 mm	70 mm

* These references are available under request



▶ Stopper ISO, Versilic



1 | Made of dark grey fluoroelastomer. Good chemical resistance. Max. working temperature +200°C, peaks up to +300°C

Code	Type	Diám.Inferior	Superior diameter
BMD056	N°000 0000	3 mm	7 mm
BMD057	N°000 0	7 mm	10 mm
BMD058	N°00	6 mm	10 mm
BMD059	N°0	9 mm	12 mm
BMD060	N°1F	10 mm	14 mm
BMD061	N°1	12 mm	15 mm
BMD062	N°2F	13 mm	16 mm
BMD063	N°2	14 mm	17 mm
BMD064	N°3	16 mm	19 mm
BMD065	N°4	18 mm	21 mm
BMD067	N°6	22 mm	26 mm
BMD068	N°9	28 mm	34 mm
BMD069	N°10	31 mm	37 mm
BMD070	N°11	34 mm	40 mm

* These references are available under request





BMD - Conical shape, rubber

▶ Stopper grey rubber high



Code	Type	Inferior diameter	Superior diameter
BMD001	N°000 0000	3 mm	7 mm
BMD002	N°000 00	5 mm	7 mm
BMD003	N°00	6 mm	10 mm
BMD004	N°0	9 mm	12 mm
BMD005	N°1F	10 mm	14 mm
BMD006	N°1	12 mm	15 mm
BMD007	N°1N	11 mm	16 mm
BMD008	N°2F	13 mm	16 mm
BMD009	N°2	14 mm	17 mm
BMD010*	N°2N	12 mm	18 mm
BMD011	N°3	16 mm	19 mm
BMD012	N°4	18 mm	21 mm
BMD013	N°5	19 mm	23 mm
BMD014	N°6	22 mm	26 mm
BMD015	N°7	24 mm	29 mm
BMD016	N°8	26 mm	32 mm
BMD017	N°9	28 mm	34 mm
BMD018	N°10	31 mm	37 mm
BMD019	N°11	34 mm	40 mm
BMD020	N°12	36 mm	43 mm
BMD021	N°13	40 mm	49 mm
BMD022	N°14	46 mm	55 mm
BMD023	N°15	50 mm	61 mm
BMD024	N°16	54 mm	63 mm
BMD025	N°17	61 mm	71 mm
BMD026	N°18	69 mm	84 mm
BMD027*	N°19	80 mm	100 mm
BMD028*	N°20F	93 mm	112 mm

* These references are available under request

▶ Stopper grey rubber, DIN 12871

ISO
12871

Code	Type	Inferior diameter	Superior diameter
BMD030	N°6 D	3,5 mm	6,5 mm
BMD031	N°8 D	4 mm	8 mm
BMD032	N°10 D	5 mm	9 mm
BMD033	N°13D	8 mm	12 mm
BMD034	N°15D	10,5 mm	14,5 mm
BMD035	N°16D	12,5 mm	16,5 mm
BMD036	N°18D	14 mm	18 mm
BMD037	N°21D	17 mm	22 mm
BMD038	N°24D	18 mm	24 mm
BMD039	N°27D	21 mm	27 mm
BMD040	N°29D	23 mm	29 mm
BMD041	N°31D	26 mm	32 mm
BMD042	N°34D	29 mm	35 mm
BMD043	N°38D	31 mm	38 mm
BMD044	N°41D	34 mm	41 mm
BMD045	N°45D	36 mm	44 mm
BMD046	N°49D	41 mm	49 mm
BMD047	N°54D	47 mm	55 mm
BMD048	N°60D	50,5 mm	59,5 mm
BMD049	N°65D	56 mm	65 mm
BMD050	N°70D	60 mm	70 mm
BMD051	N°75D	64,5 mm	75,5 mm
BMD052	N°83D	71 mm	83 mm
BMD053*	N°92D	79 mm	92 mm
BMD054	N°100D	87 mm	100 mm
BMD055*	N°107D	94 mm	107 mm

* These references are available under request



▶ BMF - Conical shape, silicone

▶ Stopper Versilic high



Code	Type	Inferior diameter	Superior diameter	Height
BMF001	000 0000	3 mm	7 mm	19 mm
BMF002*	000 000	3,7 mm	6 mm	5 mm
BMF003	000 0	7 mm	10 mm	9 mm
BMF004	000	8,5 mm	10 mm	13 mm
BMF005	00	6 mm	10 mm	17,5 mm
BMF006	0	9 mm	12 mm	19 mm
BMF007	1F	10 mm	14 mm	19 mm
BMF008*	1	12 mm	15 mm	19 mm
BMF009	2F	13 mm	16 mm	21 mm
BMF010	2	14 mm	17 mm	21 mm
BMF011*	2N	12 mm	18 mm	25 mm
BMF012	3	16 mm	19 mm	23 mm
BMF013	4	18 mm	21 mm	25 mm
BMF014*	5	19 mm	23 mm	28 mm
BMF015	6	22 mm	26 mm	30 mm
BMF016	7	24 mm	29 mm	32 mm
BMF017	8	26 mm	32 mm	34 mm
BMF018	9	28 mm	34 mm	36 mm
BMF019	10	31 mm	37 mm	41 mm
BMF020	11	34 mm	40 mm	43 mm
BMF021	12	36 mm	43 mm	45 mm
BMF022	13	40 mm	49 mm	49 mm
BMF023	14	46 mm	55 mm	51 mm
BMF024	15	50 mm	61 mm	56 mm
BMF025	16	54 mm	63 mm	61 mm
BMF026	17	61 mm	71 mm	65 mm
BMF027	18	69 mm	84 mm	65 mm
BMF028*	19	80 mm	100 mm	67 mm

* These references are available under request



▶ Stopper Versilic DIN 12871, high



1| Non-adhesive, non-toxic, biologically neutral and wear-resistant. Working temperature -70°C / +250°C

Code	Type	Inferior diameter	Superior diameter	Height
BMF031	6D	3,5 mm	6,5 mm	15 mm
BMF032	8D	4 mm	8 mm	20 mm
BMF033	10D	5 mm	9 mm	20 mm
BMF034	13D	8 mm	12 mm	20 mm
BMF035	15D	10,5 mm	14,5 mm	20 mm
BMF036	16D	12,5 mm	16,5 mm	20 mm
BMF037	18D	14 mm	18 mm	20 mm
BMF038	21D	17 mm	22 mm	25 mm
BMF039	24D	18 mm	24 mm	30 mm
BMF040	27D	21 mm	27 mm	30 mm
BMF041	29D	23 mm	29 mm	30 mm
BMF042	31D	26 mm	32 mm	30 mm
BMF043	34D	29 mm	35 mm	30 mm
BMF044	38D	31 mm	38 mm	35 mm
BMF045	41D	34 mm	41 mm	35 mm
BMF046	45D	36 mm	44 mm	40 mm
BMF047	49D	41 mm	49 mm	40 mm
BMF048	54D	47 mm	55 mm	40 mm
BMF049	60D	50,5 mm	59,5 mm	45 mm
BMF050	65D	56 mm	65 mm	45 mm
BMF051	70D	60 mm	70 mm	50 mm
BMF052	75D	64,5 mm	74,5 mm	55 mm
BMF053*	83D	71 mm	83 mm	60 mm
BMF054*	92D	79 mm	92 mm	65 mm
BMF055	100D	87 mm	100 mm	65 mm
BMF077	-	40 mm	49 mm	49 mm
BMF078	24D	18 mm	24 mm	30 mm

* These references are available under request



DIN
12871



▶ BMF - Conical shape, silicone

▶ Silicon conical stopper

**Kartell**

Code	Inferior diameter	Superior diameter	Height
BMF057	6 mm	9 mm	18 mm
BMF058	9 mm	12 mm	18 mm
BMF059	10 mm	13 mm	18 mm
BMF060*	11 mm	14 mm	18 mm
BMF061	12 mm	16 mm	20 mm
BMF062	13 mm	18 mm	22 mm
BMF063	14 mm	20 mm	24 mm
BMF064	16 mm	23 mm	26 mm
BMF065	19 mm	26 mm	28 mm
BMF066	21 mm	30 mm	30 mm
BMF067	25 mm	32 mm	34 mm
BMF068	28 mm	37 mm	38 mm
BMF069	32 mm	42 mm	42 mm
BMF070	34 mm	45 mm	45 mm
BMF071	37 mm	48 mm	50 mm
BMF072	42 mm	54 mm	53 mm
BMF073	43 mm	60 mm	60

mm

* These references are available under request

▶ BMG - Pre-perforated, rubber



- 1| Manufactured in grey natural rubber. Very elastic rubber, guarantees a good fit
- 2| Temperature range -25°C and +70°C
- 3| +120°C in humid conditions

Code	Type	Inferior diameter	Superior diameter	Height	Holes
BMG011	N° 18 D	14 mm	18 mm	20 mm	2
BMG002	N° 24 D	18 mm	24 mm	30 mm	5
BMG003	N° 27 D	21 mm	27 mm	30 mm	5
BMG004	N° 31 D	16 mm	32 mm	30 mm	5
BMG005	N° 34 D	29 mm	35 mm	30 mm	5
BMG006	N° 38 D	31 mm	38 mm	35 mm	5
BMG007	N° 45 D	36 mm	44 mm	40 mm	5
BMG014	N° 49 D	41 mm	49 mm	40 mm	5
BMG008	N° 60 D	50,5 mm	59,5 mm	45 mm	5
BMG009	N° 65 D	56 mm	65 mm	45 mm	5
BMG010	N° 75 D	64,5 mm	75,5 mm	55 mm	5
BMG012	N° 83 D	71 mm	83 mm	60 mm	5
BMG013	N° 92 D	79 mm	92 mm	65 mm	5

▶ BMH - Perforated, rubber

▶ Stopper grey rubber, DIN 12871

DIN
12871

Code	Type	Inferior diameter	Superior diameter	Height
BMH019	15D	10,5 mm	14,5 mm	20 mm
BMH020	21D	17 mm	22 mm	25 mm
BMH021	16D	12,5 mm	16,5 mm	20 mm
BMH022	24D	18 mm	24 mm	30 mm
BMH023	27D	21 mm	27 mm	30 mm
BMH024	29D	23 mm	29 mm	30 mm
BMH025	31D	26 mm	32 mm	30 mm
BMH026	34D	29 mm	35 mm	30 mm
BMH027	38D	31 mm	38 mm	35 mm
BMH028	41D	34 mm	41 mm	35 mm
BMH029	45D	36 mm	44 mm	40 mm
BMH030	49D	41 mm	49 mm	40 mm



BMH - Perforated, rubber

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▶ Stopper grey rubber high



1 | All plugs have 1 hole except BMH013 which has 2 holes.

Code	Type	Inferior diameter	Superior diameter	Height
BMH001	2	14 mm	17 mm	21 mm
BMH003	4	18 mm	21 mm	25 mm
BMH004	5	19 mm	23 mm	28 mm
BMH005	6	22 mm	26 mm	30 mm
BMH008	9	28 mm	34 mm	36 mm
BMH010	11	34 mm	40 mm	43 mm
BMH011	12	36 mm	43 mm	45 mm
BMH012	13	40 mm	49 mm	49 mm
BMH013*	13	40 mm	49 mm	49 mm
BMH014	14	46 mm	55 mm	51 mm
BMH015	15	50 mm	61 mm	56 mm
BMH016	16	54 mm	63 mm	61 mm
BMH017*	17	61 mm	71 mm	65 mm

* These references are available under request



▶ Conical stopper 1 hose



Code	Inferior diameter	Superior diameter	Height	N° holes	Hole diameter
BMH037	9 mm	12 mm	18 mm	1	3 mm
BMH038	10 mm	13 mm	18 mm	1	3 mm
BMH039	10 mm	13 mm	18 mm	1	3 mm
BMH040	12 mm	16 mm	20 mm	1	3 mm
BMH041	13 mm	18 mm	22 mm	1	3 mm
BMH042	14 mm	20 mm	24 mm	1	3 mm
BMH043	16 mm	23 mm	26 mm	1	6 mm
BMH044	19 mm	26 mm	28 mm	1	6 mm
BMH045	21 mm	30 mm	30 mm	1	6 mm
BMH046	25 mm	32 mm	34 mm	1	6 mm
BMH047	28 mm	37 mm	38 mm	1	6 mm
BMH048	32 mm	42 mm	42 mm	1	6 mm
BMH049	34 mm	45 mm	45 mm	1	6 mm
BMH050	37 mm	48 mm	50 mm	1	6 mm
BMH051	42 mm	54 mm	53 mm	1	6 mm
BMH052	43 mm	60 mm	60 mm	1	6 mm
BMH053*	53 mm	65 mm	70 mm	1	6 mm
BMH054	13 mm	18 mm	22 mm	2	6 mm
BMH055	14 mm	20 mm	24 mm	2	6 mm
BMH056	16 mm	23 mm	26 mm	2	6 mm
BMH057	19 mm	26 mm	28 mm	2	6 mm
BMH058	21 mm	30 mm	30 mm	2	6 mm
BMH059	25 mm	32 mm	34 mm	2	6 mm
BMH060	28 mm	37 mm	38 mm	2	6 mm
BMH061	32 mm	42 mm	42 mm	2	6 mm
BMH062	34 mm	45 mm	45 mm	2	6 mm
BMH063	37 mm	48 mm	50 mm	2	6 mm
BMH064*	42 mm	54 mm	53 mm	2	6 mm
BMH065	43 mm	60 mm	60 mm	2	6 mm
BMH066*	53 mm	65 mm	70 mm	2	6 mm

* These references are available under request





▶ BMH - Perforated, rubber

▶ Red rubber stopper 1 hole



Code	Inferior diameter	Superior diameter	Height	Holes
BMH103	15 mm	19,5 mm	22,25 mm	1
BMH104	17 mm	21 mm	25,25 mm	1
BMH105	19,5 mm	24 mm	26,25 mm	1
BMH106	20,5 mm	28 mm	31,05 mm	1
BMH107	27,5 mm	32 mm	32,35 mm	1
BMH108	2 mm9	34 mm	34,4 mm	1
BMH109	31,5 mm	39,5 mm	43,6 mm	1
BMH110	36,5 mm	43,5 mm	44,6 mm	1
BMH111	43,5 mm	53,5 mm	43,08 mm	1
BMH112	45 mm	56 mm	42,2 mm	1
BMH113	14 mm	19 mm	21 mm	2
BMH114	17 mm	21 mm	25,25 mm	2
BMH115	19,5 mm	24 mm	26,25 mm	2
BMH116	20,5 mm	28 mm	31,05 mm	2
BMH117	26 mm	30 mm	33 mm	2
BMH118	29 mm	34 mm	34,4 mm	2
BMH119	31,5 mm	39,5 mm	43,6 mm	2
BMH120	36,5 mm	43,5 mm	44,6 mm	2
BMH121	43,5 mm	53,5 mm	43,08 mm	2
BMH122	45 mm	56 mm	42,2 mm	2

▶ Rubber stopper 1 hole



Code	Type	Diam. inferior	Diam. superior	Height	Nº holes
BMH067	Nº 2	15 mm	21 mm	26 mm	1
BMH068	Nº 3	17 mm	23 mm	26 mm	1
BMH069	Nº 4	19 mm	26 mm	26 mm	1
BMH071	Nº6	25 mm	33 mm	27 mm	1
BMH072	Nº7	29 mm	36 mm	30 mm	1
BMH077	Nº12	51 mm	60 mm	36 mm	1
BMH078	Nº13	54 mm	67 mm	38 mm	1
BMH079	Nº14	63 mm	75 mm	39 mm	1
BMH080	Nº15	67 mm	80 mm	40 mm	1
BMH081	Nº16	74 mm	84 mm	42 mm	1
BMH082	Nº17	78 mm	94 mm	45 mm	1
BMH083	Nº18	85 mm	102 mm	50 mm	1
BMH084	Nº19	90 mm	110 mm	53 mm	1
BMH085	Nº 2	15 mm	21 mm	26 mm	2
BMH086	Nº 3	17 mm	23 mm	26 mm	2
BMH087	Nº 4	19 mm	26 mm	26 mm	2
BMH088	Nº 5	22 mm	29 mm	28 mm	2
BMH089	Nº 6	25 mm	33 mm	27 mm	2
BMH090	Nº 7	29 mm	36 mm	30 mm	2
BMH091	Nº 8	33 mm	41 mm	30 mm	2
BMH092	Nº 9	37 mm	45 mm	30 mm	2
BMH093	Nº 10	43 mm	51 mm	32 mm	2
BMH094	Nº 11	46 mm	55 mm	34 mm	2
BMH095	Nº 12	51 mm	60 mm	36 mm	2
BMH096	Nº 13	54 mm	67 mm	38 mm	2
BMH097	Nº 14	63 mm	75 mm	39 mm	2
BMH098	Nº 15	67 mm	80 mm	40 mm	2
BMH099	Nº 16	74 mm	84 mm	42 mm	2
BMH100	Nº 17	78 mm	94 mm	45 mm	2
BMH101	Nº 18	85 mm	102 mm	50 mm	2
BMH102	Nº 19	90 mm	110 mm	53 mm	2
BMH123	Nº 20	93 mm	120 mm	55 mm	1
BMH124	Nº 21	100 mm	140 mm	60 mm	1
BMH125	Nº 22	145 mm	163 mm	60 mm	1
BMH126	Nº 20	93 mm	120 mm	55 mm	2
BMH127	Nº 21	100 mm	140 mm	60 mm	2
BMH128	Nº 22	145 mm	163 mm	60 mm	2





DIMENSIONS - stopper with folding skirt

D1: diameter
D2: diameter
H1: height of the part reversible
H2: height of the interior part



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 **BMJ - With folding skirt, rubber**
 **Stopper rubber with folding skirt**


- 1 | They can be pierced. Temperature -20 °C/100 °C.
- 2 | Ensure a good fit on glass, metal or plastic.

Code	Size	D1	D2	H1	H2
BMJ001	7,1 mm	4,5 mm	7,5 mm	8 mm	9 mm
BMJ002	10,2 mm	9,8 mm	10,7 mm	9 mm	14 mm
BMJ003	12,7 mm	12,3 mm	13,3 mm	10 mm	20 mm
BMJ004	14,9 mm	14,2 mm	15,5 mm	11 mm	20 mm
BMJ005	15,9 mm	14,5 mm	16,5 mm	11,5 mm	19,5 mm
BMJ006	19,4 mm	15,8 mm	17,8 mm	13,5 mm	19 mm
BMJ007	23,7 mm	21,2 mm	24,4 mm	18 mm	25 mm
BMJ008	30,7 mm	28 mm	31,4 mm	22 mm	27,5 mm


 **BMK - With folding skirt, silicone**
 **Stopper Versilic with folding skirt**


- 1 | Made of silicone with double sealing. They ensure a good fit on glass, metal or plastic
- 2 | Biologically neutral, can be drilled
- 3 | Working temperature -60°C / +220°C

Code	Size	D1	D2	H1	H2
BMK001	7,1 mm	4,5 mm	7,5 mm	8 mm	9 mm
BMK002	10,2 mm	9,8 mm	10,7 mm	9 mm	14 mm
BMK003	12,7 mm	12,3 mm	13,3 mm	10 mm	20 mm
BMK004	14,9 mm	14,2 mm	15,5 mm	11 mm	20 mm
BMK005	15,9 mm	14,5 mm	16,5 mm	11,5 mm	19,5 mm
BMK006	19,4 mm	15,8 mm	17,8 mm	13,5 mm	19 mm
BMK007	23,7 mm	21,2 mm	24,4 mm	18 mm	25 mm
BMK008	30,7 mm	28 mm	31,4 mm	22 mm	27,5 mm


 **Overturnable stoppers**


Code	D1	D2	H1	H2
BMK009	7 mm	7 mm	9 mm	8 mm
BMK010	10 mm	10 mm	14 mm	8 mm
BMK011	13 mm	13 mm	20 mm	10 mm
BMK012	15 mm	15 mm	20 mm	10 mm
BMK013	16 mm	16 mm	20 mm	11 mm
BMK014	20 mm	20 mm	18 mm	12 mm
BMK015	24 mm	24 mm	15 mm	17 mm
BMK016	31 mm	31 mm	28 mm	22 mm





BML - Borers

Cork borer sharpener



1 | With hardened steel blade and metal handle

Code	Lenght total
BML001	170 mm

Cork borer set



1 | Made of nickel-plated brass, they have holes of different sizes.
2 | Equipped with a solid rod to remove cork residues from the inside of the drill.

Code	Bores	Range
BML002	6	5/11 mm
BML003	12	5/19 mm

Mini cork borer



Code	Bores	Range Ø mm
BML500	6	4/4, 9/5, 5/6, 4/8/9, 5

Cork press



Code	Model
BML501	Crocodile shape

Cork borer



1 | Electrobrite finish.

Code	Bores
Universal handle	
BML502	8
BML505	12
Individual handle	
BML503	6
BML504	8
BML506	12



▶ BMN - Caps, silicone

▶ Protective cap Versilic



1 | Biologically neutral and sterilizable. Thermal resistance of -60 °C/ +200 °C

Code	For tubes of diametro
BMN004	10 mm
BMN005	12 mm
BMN006	14 mm
BMN007	16 mm
BMN008	18 mm
BMN009	20 mm
BMN010	22 mm
BMN011	25 mm
BMN012	30 mm
BMN013	35 mm
BMN014	50 mm

* These references are available under request



▶ Perfusion stopper B55I01B



1 | Made of chlorobutyl. Designed for vials

Code	Diameter
BMN016	19,8 mm

* These references are available under request

▶ Injection stopper, Versilic



1 | Autoclave resistant.

Code	Internal diameter	External diameter
BMN001	20 mm	13 mm

▶ BMP - PTFE

▶ Stoppers PTFE



- 1 | Exceptional chemical and thermal resistance.
- 2 | Product suitable for contact with food.
- 3 | Taper 1:10.

Code	Cono N/S	Inferior diameter
BMP001	14,5/23	12,2 mm
BMP002*	19/26	16,4 mm
BMP003*	24/29	21,1 mm
BMP004	29/32	25,8 mm

* These references are available under request





B

GENERAL USE - [BM] stoppers

[BP] microscopy

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BMQ - Cellulose

Sterile stoppers



Code	For Ø
BMQ500	9 to 11.5 mm.
BMQ501	12.5 to 14.5 mm
BMQ502	13.5 to 15.5 mm
BMQ503	17.5 to 18.5 mm
BMQ504	18 to 22 mm
BMQ505	25 to 27 mm
BMQ506	28 to 31 mm
BMQ507	31 to 35 mm
BMQ508	36 to 42 mm
BMQ509	44 to 48 mm



BPB - Slides

Slides with single cavity



- 1 | Made of soda glass. Standard size 76x26 mm. Box of 50 units
- 2 | 90° frosted edges

Code	Cavity	Thickness (mm)
BPB001	1	1,2
BPB002	2	1,2
BPB045	3	1,2/1,5

Slides 3 fields



- 1 | 3 fields of 18 mm each identified as (VCE).
- 2 | With 20 mm labeling strip. 90° frosted edge
- 3 | Box of 50 units

Code	Size
BPB005	76X26 mm

With colored ground edge



- 1 | Frosted edges, box of 50 units.
- 2 | Dimensions: 76x26 mm. Thickness between 1/1,2 mm

Code	Angle	Frosted colour
BPB021	45°	White
BPB022*	45°	Orange
BPB023*	45°	Yellow
BPB024	45°	Green
BPB025	45°	Pink
BPB026	45°	Blue
BPB027	90°	White
BPB028	90°	Orange
BPB029*	90°	Yellow
BPB030	90°	Green
BPB031	90°	Pink
BPB032	90°	Blue

* These references are available under request



BPB - Slides

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▶ With colored edge



- 1| Ground edges, fits 50 units.
- 2| Dimensions: 76x26 mm. Thickness between 1/1,2 mm.

Code	Angle	Frosted colour
BPB050*	90°	Green
BPB051*	90°	Pink
BPB052*	90°	Yellow

* these references are available until end of stock



▶ Diagnostic slides



- 1| Hydrophobic Teflon coating with high resistance to organic solvents
The use of the same techniques and reagents used in histology techniques.
- 2| Dimensions: 76x26 mm. Thickness: 1 mm.
- 3| 90° frosted edges and 20 mm labeling band. Box of 50 units

Code	N° fields	Field diameter	Numbered fields
BPB003*	1	6 mm	No
BPB006*	3	10 mm	No
BPB008*	6	8 mm	No
BPB009*	8	9 mm	No
BPB011*	10	8 mm	No
BPB012*	8	6 mm	Yes
BPB013*	10	6 mm	Yes
BPB014*	10	8 mm	Yes
BPB015*	10	7 mm	Clockwise

* these references are available until end of stock



▶ Microscope slides



- 1| Dimensions 76x26 mm. Thickness 1/1,2 mm. Box of 50 units.

Code	Edges	Angle
BPB016	Cut edge	90°
BPB017	Frosted	90°
BPB043	Frosted	45°



GHÄASEL

- 1| Hydrophilic surface. Suitable for human biology
- 2| Dimensions: 76x26 mm. Thickness of 1,1 mm. Box of 50 units.

Code	Angle	Edges
BPB033	90°	Cut edge
BPB034	90°	Frosted
BPB035	45°	Frosted





BPB - Slides

▶ Frosted both sides



1 | Dimensions 76x26 mm. Thickness 1/1,2 mm. Box of 50 units.

Code	Edges	Angle
BPB018	Cut edge	90°
BPB019	Frosted	90°
BPB020	Esm, bevels	45°
BPB044	Frosted	45°

Special dimensions: 76x25,5 mm

Code	Edges	Angle
BPB054	Frosted	45°

**GHÄASEL**

1 | Hydrophilic surface. Suitable for human biology.

2 | Dimensions: 76x26 mm. Thickness:1,1 mm. Box of 50 units.

Code	Angle	Edges
BPB036	90°	Cut edge
BPB037	90°	Frosted

▶ Slides special dimensions

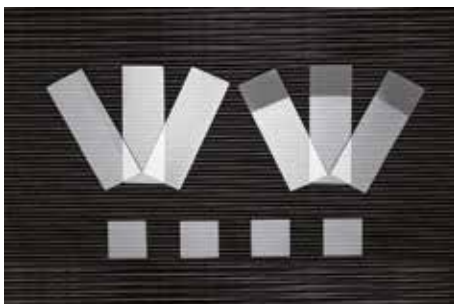


1 | 1mm Thickness. Made of soda glass.

Code	Dimensions	Edges	Box of
BPB038	76x50 mm	Cut edge	50 uds
BPB041	45x30 mm	Cut edge	25 uds
BPB042	80x65 mm	Cut edge	15 uds
BPB053*	76x50 mm	Cut edge	50 uds
BPB039*	76x50 mm	Frosted	50 uds
BPB040*	76x50 mm	Frosted	50 uds

* these references are available until end of stock

▶ Glass slides



Code	Dimensions	Slides	Box of
BPB511	26 x 76 x 1.5 mm	Unground	72 uds
BPB512*	26 x 76 x 1.5 mm	Ground end	72 uds

* 26x20 mm for writing



BPD - Cover slides

▶ Round cover glasses



- 1| Made of soda glass, transparent and without fingerprints.
- 2| Standard uniform thickness of 0.13-0.16 mm
- 3| Box of 100 units.

Code	Diameter
BPD010	10 mm
BPD011	12 mm
BPD013	18 mm
BPD014	20 mm
BPD015	22 mm
BPD030	14 mm
BPD031	16 mm

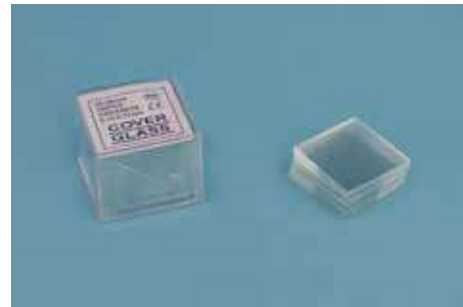


▶ Square - Cover glasses



- 1| Made of soda glass, transparent and without fingerprints.
- 2| Standard uniform thickness of 0.13-0.16 mm
- 3| Box of 100 units.

Code	Dimensions
BPD001	12x12 mm
BPD002	18x18 mm
BPD003	20x20 mm
BPD004	22x22 mm
BPD005	24x24 mm
BPD006	24x32 mm
BPD007	24x40 mm
BPD008	24x50 mm
BPD009	24x60 mm



▶ Square - Borosilicated cover glasses



- 1| Borosilicate glass. Thickness 0.13/0.17 mm. Box of 200 units.

Code	Dimensions
BPD016	18x18 mm
BPD017	20x20 mm
BPD018	22x22 mm
BPD020	24x24 mm



ISO
8255

▶ Rectangular - Borosilicated cover glasses



- 1| Borosilicate glass. Thickness 0.13/0.17 mm. Box of 200 units.

Code	Dimensions
BPD019	22x32 mm
BPD021	24x32 mm
BPD022	24x36 mm
BPD023	24x40 mm
BPD024	24x50 mm
BPD025	24x60 mm
BPD029	22x32 mm



ISO
8255



BPG - Slide storage

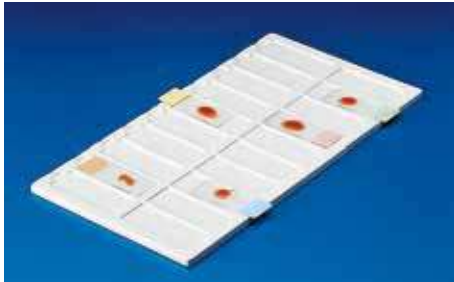
▶ Cardboard tray



- 1 | For standard slides 76x26 mm
- 2 | With finger slot for easy removal of slides.

Code	Slides	Description	Dimensions
BPG001	2	With lid	90x70x5 mm
BPG002	3	With lid	82x28x17 mm
BPG003	4	With lid	150x110x7 mm
BPG004	10	With numbered lid	400x100x7 mm
BPG005	20	With numbered lid	400x200x7 mm
BPG006	20	Without numbered lid	400x200x4 mm

▶ Slides tray



- 1 | For standard slides 76x26 mm.

Code	Places	Dimensions (LxAxH)
BPG023	20 places	190x340x8 mm
BPG024	40 places	190x660x8 mm

▶ Slide mailer, PE



- 1 | Each tray has its own grooved housing, especially indicated for cytological and gynecological samples.

Code	Places	Dimensions (LxAxH)
BPG028	1 place	98,8x50,6x6,4 mm
BPG029	3 places	70x84x6 mm
BPG030	2 places	84x97x6 mm

▶ Plastic box, plane



- 1 | For standard slides 76x26 mm.
- 2 | The larger capacity boxes can be stacked (50 and 100 slides).

Code	N°slides	Description	Dimensions
BPG007	2	Hinged opening	90x70x5 mm
BPG008	5	Hinged opening	82x28x17 mm
BPG009	25	2 pieces	120x80x30 mm
BPG010	50	Hinged opening*	210x83x30 mm
BPG011	100	Hinged opening*	210x163x30 mm

* numbered



BPG - Slide storage

Micro slide boxes

Kartell

1 | Stackable, for 76x26 mm slides.

Code	Places	Dimensions (LxAxH)
BPG019	25 places	98x83x38 mm
BPG020	50 places	230x97x35 mm
BPG021	100 places	230x180x35 mm



Storage box for slides

Nahita

1 | Made of plastic, stackable. Includes 6 holders for 75 slides (Total capacity 450 slides).

Code	Description	Dimensions
BPG017*	Storage box 450 slides	34x23x10 cm
BPG018	Stand for 75 slides	-

* these references are available until end of stock



Slide mailer, PP

Kartell

1 | To send or store 5 to 10 samples. Walls with high thickness, very resistant.

Code	Diameter	Lenght
BPG027	40 mm	90 mm



Base for slide storage

Nahita

- 1 | Modular system for classification and storage of slides.
- 2 | Each module is pleased by 6 drawers with safety stop.
- 3 | Stackable modules of metal construction.

Code	Description	Capacity	Dimensions
BPG013	Base	-	40x46x11 cm
BPG014	Cabinet	5400 slides	48x40,5x12,5 cm



Base for block storage

Nahita

- 1 | Modular system for classification and storage of blocks included in paraffin.
- 2 | Each module is pleased by 6 drawers with safety stop.
- 3 | Each drawer has 12 removable metal guides.
- 4 | Stackable modules of metal construction.

Code	Description	Capacity	Dimensions
BPG015	Base	-	48x45x12 cm
BPG016	Cabinet	4800 slides	48x45x39 cm





▶ BPG - Slide storage

▶ Slide support and lid

**Kartell**

- 1 | Each unit supports 100 standard 76x26 mm slides.
- 2 | Can be stored in cabinets ref. BPG031

Code	Places	Dimensions (LxAxH)
BPG025	Lid	360x38x100 mm
BPG026	Support	345x35x40 mm

▶ Slide storing system

**Kartell**

- 1 | They are made of PMMA and impact resistant steel.
- 2 | Each drawer can contain up to 13 slides (ref. BPG026) together with its transparent covers (ref. BPG025), to be ordered separately.
- 3 | Each slide holder BPG026 can contain 100 slides. The complete storage system can contain up to 5,200 slides
- 4 | The mobile version could be transformed into a fixed version and vice versa, using the kit of four fixed feet, or the four-wheeled kit. (see table of accessories)

Code	Castors	Dimensions (LxAxH)
BPG035	Yes	490x475x780 mm
BPG036	No	490x475x700 mm

▶ Accessories for slide storing system

**Kartell**

Code	Description
BPG037	Kit of four swivel caster for slide storing system
BPG038	Kit of four feet for slide storing system

▶ Slide dispenser

**Nahita**

- 1 | Made of ABS plastic, to obtain clean and fingerprint-free slides.
- 2 | Capacity for 90 slides of standard size: 76x26 mm.

Code	Dimensions
BPG012	12x10x16,5 cm



BPG - Slide storage

Automatic slide dispenser

Kartell

1 | 50 slides of 76x26 mm can be placed. The cavities are individually numbered and are supplied with a card to classify the slides.

Code	Dimensions
BPG022	00x120x140 mm



Slide boxes



1 | Holds 5 slides, made of polypropylene. Ideal for personal use.

Code	Dimensions
BPG502	82x30 mm



Slide dispenser



1 | Base made of ABS with a transparent Polycarbonate lid, with rotating manual dispenser of individual slides.

Code	Capacity	Dimensions
BPG503	50 slides	76 x 26 mm

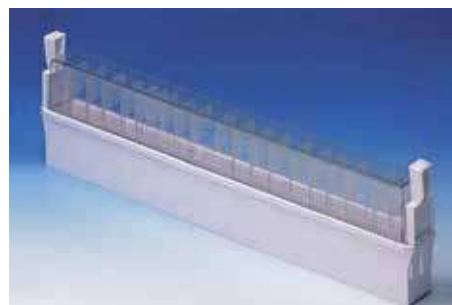


Slide support rack



1 | Made from ABS plastic with transparent polycarbonate lid.

Code	Capacity	For
BPG504	100 slides	26x76 mm slides



Storage box for slides



1 | Made of polystyrene with numbered slots and index in the lid.

Code	Capacity	For
BPG505	25 slides	26x76 mm slides
BPG506	50 slides	26x76 mm slides
BPG507	100 slides	26x76 mm slides





BPG - Slide storage

▶ Storage box



1 | Made of white ABS with a hinge lid and catch, numbered slots for slides and a cork base.

Code	Capacity	For
BPG508	100 slides	26x76 mm slides

▶ Stackable Anatomy
Histology sample storage chest

1 | Manufactured in steel epoxy coated. Resistant to corrosive atmospheres.
2 | Model BPG511 Cabinet for storing paraffin wax mounted samples.
3 | Model BPG512 Cabinet for storing slides.

Base and lid units

Code	Part	Dimensions	Weight
BPG509	Base	5,5x48x48 cm	2,5 Kg
BPG510	Lid	5,5x48x48 cm	2,5 Kg

Code	BPG511	BPG512
Drawers	10	14
Capacity	-	350 slides
Dimensions		
Usable	2.6x43.5x47 cm	9x2.6x45 cm
Exterior	34.5x48x48 cm	14x48x48 cm
Weight	18,5 Kg	9,5 Kg

▶ Slide box for storing



1 | PVC base, colour white, with numbered dividers. Index in the lid interior.

Code	Capacity	For
BPG513	100 slides	26x76 mm slides



BPJ - Embedding

▶ Biopsy cassettes with lid



1 | Made of polyoxymethylene (POM), totally resistant to organic solvents.
2 | Large labeling surfaces, inclined at 45°.

Code	Colour	Diameter perforaciones	Pack
BPJ006	White	1x1 mm	250



▶ BPJ - Embedding

▶ Biopsy cassettes with lid



- 1| Made of polyoxymethylene (POM), totally resistant to organic solvents.
- 2| Large labeling surfaces, inclined at 45°.

Code	Colour	Diameter slots	Pack
BPJ011	White	2 mm	500



▶ Embedding cassettes with lid



- 1| Made of polyoxymethylene (POM), totally resistant to organic solvents.
- 2| Large labeling surfaces, inclined at 45°.

Code	Colour	Diameter slots	Pack
BPJ001	White	1x5 mm	250



Kartell

Code	Colour	Dimensions	Pack
BPJ029*	White	40x28x6,8 mm	500 pcs
BPJ030*	Blue	40x28x6,8 mm	500 pcs
BPJ031*	Yellow	40x28x6,8 mm	500 pcs
BPJ032*	Green	40x28x6,8 mm	500 pcs
BPJ033*	Pink	40x28x6,8 mm	500 pcs

* These references are available under request



▶ Embedding cassettes MEGA type

Kartell

Code	Colour	Dimensions	Pack
BPJ034*	White	40x28x13,6 mm	100
BPJ035*	Blue	40x28x13,6 mm	100
BPJ036*	Yellow	40x28x13,6 mm	100
BPJ037*	Green	40x28x13,6 mm	100
BPJ038*	Pink	40x28x13,6 mm	100

* These references are available under request



▶ Sponges for histological cassettes

Kartell

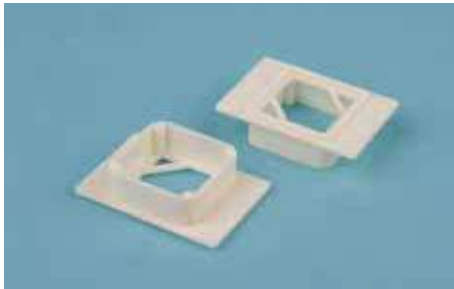
Code	Colour	Dimensions	Pack
BPJ021	Blue	32x26x2.5 mm	500 pcs





BPJ - Embedding

▶ Embedding ring



- 1 | In high quality ABS.
- 2 | With labeling surface for correct identification of samples.

Code	Colour	Ring diameter	Dim. base	Pack
BPJ016	White	25X25 mm	40X28 mm	500

▶ Embedding ring

**Kartell**

Code	Colour	Dimensions	Pack
BPJ024*	White	28x40x11 mm	500 pcs
BPJ025*	Blue	28x40x11 mm	500 pcs
BPJ026*	Yellow	28x40x11 mm	500 pcs
BPJ027*	Green	28x40x11 mm	500 pcs
BPJ028*	Pink	28x40x11 mm	500 pcs

* These references are available under request

▶ Base mould



- 1 | In stainless steel. Compatible with inclusion rings and cassettes.

Code	Dimensions
BPJ040	7x7x6 mm
BPJ041	15x15x6 mm
BPJ042	24x24x6 mm
BPJ043	30x24x6 mm

**Kartell**

- 1 | In stainless steel. In bags of 10 units.

Code	Model	Internal dim.
BPJ022*	Standard	23x26 mm
BPJ023*	For biopsy	7x7 mm

* These references are available under request

▶ Round insert moulds



- 1 | Made of perforated AISI 304 stainless steel with lid.

Code	Ø mm	Height mm
BPJ500	37 mm	8 mm



▶ BPL - Staining

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▶ Hellendahl staining jar



1 | Manufactured in pressed glass, of great resistance. Glass lid. Capacity 8 slides in vertical.

Code	Description	For slides
BPL001	Jar	76x26mm



▶ Staining jar



1 | With 8 spaces or 16 coupled. Has cover in PMP.

Code	Dimensions	For slides
BPL022	58x53,5x86 mm	76x26 mm



▶ Schiefferdecker staining jar



1 | Manufactured in pressed glass, of great resistance. Glass lid.
2 | Capacity 10 slides in horizontal.

Code	Description	For slides
BPL003	Jar	76x26mm
BPL004*	Lid	

* these references are available until end of stock



▶ Staining jar Schiefferdecker, PMP



1 | With 10 spaces or 20 coupled.
2 | Has cover in PMP.

Code	Dimensions	For slides
BPL019	76x65x45 mm	76x26 mm



▶ Complete staining jar



1 | Manufactured in pressed glass, of great resistance with glass cover. Bowl with basket and stainless steel handle.
2 | Capacity 10 slides in horizontal, 20 slides back to back.

Code	Description	Exterior dimensions	Interior dimensions
BPL010	Complete jar	85x70x105 mm	75x60x95 mm
BPL007	Jar	85x70x105 mm	75x60x95 mm
BPL008	Tray	68x45x90	-
BPL009	Handle	-	-
BPL011*	Lid	85x105 mm	-

* these references are available until end of stock





▶ BPL - Staining

▶ PMP staining jar

**Kartell**

- 1 | For use with the CODE article. BPL021.
- 2 | It has two lids; one to close it completely and the other with a special opening for inserting the basket during the colouring process..

Code	Dimensions (LxAxH)
BPL020	4x95x63 mm

▶ Staining box



Code	Dimensions (LxAxH)
BPL039	90x70x40 mm
BPL040	40x100x65 mm

▶ Staining rack PP

**Kartell**

- 1 | For use with the CODE article. BPL020.
- 2 | With handle for 20 samples.

Code	Dimensions	For slides
BPL021	695x86x21	76x26 mm

▶ Coplin staining jar , glass



- 1 | With 10 spaces or 20 coupled. With glass lid.

Code	Description	For slides
BPL005	Cubeta	76x26mm
BPL006	Lid	-



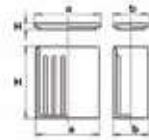
BPL - Staining

Vertical staining jar



DIMENSIONS - staining jar

a: base
b: width
H: height



1 | Porcelain cover and lid.

Code	a	b	H
BPL018	70 mm	40 mm	86 mm



Hausser Gedigk staining jar



1 | Stainless steel bowl and basket assembly (sold separately). Glass lid

Code	Capacity slides	Description	Interior dimensions
BPL012*	30	Jar	85x85x95 mm
BPL013*	60	Jar	85x85x150 mm
BPL028*	60	Support	-



3 cell colorimetric tray, PE



1 | Dimensions: 28x58 cm.

Code	Diameter	Depth
BPL023	21 mm	7 mm



8 cell tray, PS



1 | Dimensions: 95x57 cm.

Code	Diameter	Depth
BPL024	15 mm	2 mm



Staining slide rack universel



1 | It is inserted into the CODE box. BPL026. For the simultaneous staining of 25 samples

Code	Dimensions (LxAxH)
BPL025	79,6x92x32,8 mm





▶ BPL - Staining

▶ Staining trough for 25 slides

**Kartell**

1 | Totally light-tight box in which the CODE basket is inserted. BPL025

Code	Dimensions (LxAxH)
BPL026	88x100,8x52,4 mm

▶ Porcelain spot plate

**Nahita**

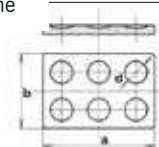
1 | High resistance to acids, bases and thermal shock.
 2 | Enamelled surface and sides, wells of approximately 20 mm Ø and 5 mm deep.

Code	N° cavities	Long	Width
BPL014	6	85 mm	54 mm
BPL015	12	115 mm	90 mm



DIMENSIONS - plates with cavities, porcelaine

a: width
 b: long
 d: diameter



1 | It shows great resistance to acids, bases and thermal shock

Code	Cavities	a	b	d
BPL016	6	81 mm	112 mm	25 mm
BPL017	12	91 mm	115 mm	17 mm

▶ Plate

**AVIGNON
CERAMIS**

Code	N°cavities	Dimensions	Diameter
BPL041	6	90x63 mm	23 mm
BPL043	12	120x90 mm	23 mm
BPL044	24	175x210mm	23 mm
BPL045	25	145x145 mm	23 mm



BPL - Staining

Multi-purpose container, SAN

Code	Volume l	Length mm	Width mm	Height mm
BPL500	4	340	230	94



Multi-purpose container, SAN



Code	Type	Dimensions	Slide quantity	Applications
BPL505	1	85 105 70	10 of 76 x 26 mm	Tank with lid, requires rack N. 2
BPL506	2	30 90 48	10 of 76 x 26 mm	Tank rack, bottomless
BPL507	3	105 60 55	16 of 76 x 26 mm	Hellendahl with lid.
BPL508	4	50 85 70	10 of 76 x 26 mm	Horizontal with lid.
BPL509	5	105 45 45	10 of 76 x 26 mm	Coplin, with lid.

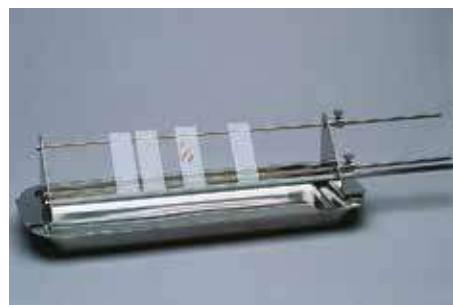


Slide staining stand



1| Extendible and made of AISI 304 stainless steel.

Code	Length fit	Capacity
BPL510	50 cm	12 to 14 slides



BRB - Petri dishes

Petri dish

1| Made of soda-lime glass. Width and cover flat inside and outside, with high transparency.

Code	Diameter	Height
BRB001	40 mm	12 mm
BRB002	60 mm	12 mm
BRB003	80 mm	15 mm
BRB004	100 mm	18 mm
BRB005	120 mm	20 mm
BRB006	150 mm	25 mm
BRB027	50 mm	12 mm
BRB028	90 mm	15 mm
BRB029	100 mm	20 mm
BRB030	200 mm	30 mm
BRB037	60 mm	15 mm





▶ BRB - Petri dishes

▶ Petri dish

BORO
3.3AUTO
+121°

1 | Borosilicate glass. Autoclavable.

Code	Diameter	Height
BRB007	50 mm	17 mm
BRB008	80 mm	17 mm
BRB009	100 mm	17 mm
BRB010	150 mm	20 mm
BRB011	200 mm	20 mm

▶ Petri Dish Aseptic, PS



1 | Made of polystyrene Bevelled edge of cover for better sliding
2 | Aseptic and ventilated. Supplied in bags of 500 units. The unit comes out at 0,10

Code	Diameter	Description
BRB040	90 mm	Aseptic and ventilated

▶ Petri dishes, aseptic, PS

IVD
in vitro
diagnostic

1 | Flat and transparent. With CE marking.

Code	Diameter	Description	Pack
BRB013	90 mm	With triple vents	500 pcs
BRB021*	90 mm	With triple vents	500 pcs
BRB014	100 mm	With triple vents	500 pcs
BRB023	60 mm	With triple vents	500 pcs
BRB015	60 mm	Without triple vents	1000 pcs
BRB016*	120 mm	Without triple vents	320 pcs
BRB017*	90 mm	2 cavities	500 pcs
BRB018*	90 mm	3 cavities	500 pcs
BRB019*	90 mm	4 cavities	500 pcs
BRB020*	150 mm	With triple vents	220 pcs
BRB024	120x120 mm	Square	270 pcs
BRB022*	65 mm	Contact type	500 pcs
BRB025*	65 mm	Contact type	500 pcs
BRB026	60 mm	Without triple vents	500 pcs

* These references are available under request

sterile

aseptic

▶ Rodac dishes gridded



1 | Made of transparent polystyrene. ASEPTIC. Grid base to facilitate colony counting
2 | They are stackable

Code	Dimensions	Pack
BRB012*	65,7x14,7 mm	B/20 pcs



BRB - Petri dishes

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▶ Petri dish with lid



Code	Dimensions	Volume	Material
BRB500	60x20 mm	50 mL	Stainless steel
BRB501	80x20 mm	90 mL	Stainless steel
BRB502	60x20 mm	50 mL	Nickel
BRB503	80x20 mm	90 mL	Nickel
BRB504	100x25 mm	150 mL	Stainless steel
BRB505	120x25 mm	260 mL	Stainless steel
BRB506	150x30 mm	550 mL	Stainless steel



▶ Plates without compartments



Code	Diameter	Winds	Type	Packed
BRB507	90 mm	3	Aseptic	20 units
BRB508	90 mm	3	Sterile	20 units



▶ Two compartment plates



Code	Diameter	Winds	Type	Packed
BRB509	90 mm	3	Aseptic	20 units
BRB510	90 mm	3	Sterile	20 units



▶ Three compartment plates



Code	Diameter	Winds	Type	Packed
BRB511	90 mm	3	Aseptic	20 units
BRB512	90 mm	3	Sterile	20 units



▶ Four compartments plates



Code	Diameter	Winds	Type	Packed
BRB513	90 mm	3	Aseptic	20 units
BRB514	90 mm	3	Sterile	20 units





B

GENERAL USE - [BR] microbiology

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▶ BRB - Petri dishes

▶ Contact crosslinked for counting



▶ Square Petri dishes.

**COMECTA**

Code	Diameter	Winds	Type	Packed
BRB515	55 mm	3	Sterile	10 units
BRB516	90 mm	3	Sterile	20 units

COMECTA

Code	Diameter	Winds	Type	Packed
BRB517	120x120 mm	3	Aseptic	10 units

▶ BRD - Microtiter plates

▶ Microtitration plates, PS

IVD
in vitro
diagnostic**Kartell**

Code	Description	Plate type	Volumen	Pack
BRD001	96 plates	Width plano	370 μ L	50 pcs
BRD002	96 plates	U	367 μ L	50 pcs
BRD003	96 plates	V	288 μ L	50 pcs
BRD004	Lid	-	-	50 pcs
BRD005*	96 plates		370 μ L	50 pcs
BRD006*	96 plates	U	367 μ L	50 pcs
BRD007*	96 plates	V	288 μ L	50 pcs
BRD008*	Lid	-	-	50 pcs

* These references are available under request

sterile

aseptic

▶ BRG - Handles

▶ L-shape bacteriology loops PP

IVD
in vitro
diagnostic**Kartell**

1 | Angle at 100 °C, sterile.

Code	Pack	Pack
BRG004*	Individual	1000 pcs
BRG005*	Pack 5 uds.	80x5 pcs

* These references are available under request



BRG - Handles

Inoculating loops

- Both have a needle for inoculation at the end.
- Steriles.

Code	Volúmen	Colour	Pack	Pack
BRG006	1 μ L	Neutral	20 pcs.	20x20
BRG007	10 μ L	Blue	20 pcs	20x20

Kartell

 IVD
in vitro
diagnostic

Kolle handle

- Includes 2 loops (Ni-Cr)

Code	Lenght	Handle
BRG009	200 m	Plastic
BRG010	290 mm	Metalic

Nahita


Kolle handle, accessories

- Made of Ni-Cr

Code	Description	Lenght total
BRG011	Loop end 3 mm \emptyset	43 mm
BRG012	Needle	48 mm
BRG013	Lancet	59 mm

Nahita


Drigalski spatula stainless steel



Code	Lenght	Description
BRG516	165 mm	Stainless steel



Culture loop for kolle handle



- Loop end.

Code	Lenght	Material	Loop
BRG500	43 mm	Ni-Cr	3 mm





▶ BRG - Handles

▶ Kolle handles



1 | Nickel metal handle with loop end of Ni-Cr.

Code	Lenght	Handle	Loop
BRG501	200 mm	ABS handle	3 mm
BRG502	290 mm	Pasteur [®] , with metal handle.	3 mm

▶ Needle for kolle handle



Code	Material
BRG503	Ni-Cr.

▶ Lancet tip for kolle handle



Code	Material	Long
BRG504	Ni-Cr.	50 mm

▶ Sterile culture loops



1 | Disposable flexible polystyrene culture handle, one loop and one pointed end.

Code.	Capacity	Colour	internal loop Ø	In packs of
BRG505	1 µl	Green	1 mm	20 units



BRG - Handles

▶ Stand



1 | Support rack for Kolle handles dissection needles made of hardened methacrylate.

Code.	Capacity
BRG506	6 places



▶ Infrared tip sterilizer "STERILBIO"



1 | Sterilization of culture tips, needles and small instruments. Incinerates organic material at 900 °C for 5/8 seconds.

2 | Support at the side for 4 Kolle handles, needles, lancet or dissecting forceps etc.

Code.	Dimensions	Lenght	Power	Weight
BRG507	20x13x18 cm	1.4x15 cm	110W	1.5 Kg



BRJ - Counters

▶ Manual counter 4 digits



1 | Made of metal. Each keystroke adds one unit
2 | 4 digits for a maximum count of 9999 cells or particles

Code	BRJ001



▶ Digital counter



1 | To count 10 different leukocyte types: basophils, eosinophils, monocytes, lymphocytes, neutrophils, immature and promyelocytes, etc.
2 | Functions: differential percentage, differential and total count
3 | I count 0-100 for each cell type. Each press adds one unit to its corresponding display and to the total count.

Code	Power
BRJ002	220 V / 50 Hz



▶ Digital cell counter for blood components "CC-1431"



1 | Designed for any type of cell or type counting and blood analysis.
2 | Languages: Spanish, English and French.
3 | Operating menu displayed on the screen, 4 LCD lines of 20 characters per line.

Code	Dimensions	Power	Weight
BRJ501	7x15x22 cm	6 W	0,6 Kg





BTB - Cuvettes, plastic

▶ Deep trays PVC

**Kartell**

1 | Stackable

Code	Dimensions int.	Dimensions ext.
BTB001	200x150x50 mm	245x195x50 mm
BTB002	250x200x60 mm	305x250x60 mm
BTB003	320x260x70 mm	385x325x75 mm
BTB004	350x300x85 mm	420x375x85 mm
BTB005	430x330x95 mm	505x405x95 mm
BTB006	520x420x95 mm	600x495x100 mm
BTB008	675x540x100 mm	765x620x110 mm
BTB007	550x430x190 mm	635x515x190 mm

▶ Square cuvette, LDPE

**Gilac**
PROFESSIONNEL

1 | Very resistant, they have an edge for a good grip.

Code	Capacity	Dimensions (LxAxH)
BTB031	3 L	220x220x91 mm
BTB032	5 L	260x260x108 mm
BTB033	7 L	310x310x128 mm

▶ Deep tray, PP

**Kartell**

1 | It can contain 18 vials of 500 mL or 12 vials of 1 L..

Code	Dimensions ext.	Dimensions int.
BTB023	510x350x105 mm	345x510x110 mm

▶ Stackable deep tray, HDPE

**Kartell**

1 | It can contain 18 vials of 500 mL or 12 vials of 1 L.

2 | BTB038 has drainage holes.

Code	Capacity	Dimensions (LxAxH)
BTB009	10 L	415x310x97 mm
BTB037*	16 L	540x350x115 mm
BTB038*	16 L	540x350x115 mm
BTB010	20 L	458x410x143 mm

* These references are available under request



▶ BTB - Cuvettes, plastic

▶ Stackable HDPE deep tray low form



1| Made of high density polyethylene. BTB019 has drainage holes.

Code	Capacity	Interior dimensions(LxAxH)	Exterior dimensions (LxAxH)
BTB017	10 L	430x320x95 mm	390x290x90 mm
BTB018	16 L	540x350x110 mm	515x325x100 mm
BTB019*	16 L	540x350x110 mm	515x325x100 mm

* con holes de drenaje



▶ Stackable tanks, HDPE



1| High resistance to organic and inorganic acids With handles.

Code	Capacity	Dimensions (LxAxH)
BTB011	20 L	315x415x200 mm
BTB012	100 L	500x585x445 mm
BTB039	46 L	365x595x255 mm
BTB040	72 L	438x695x306 mm



▶ Stackable tall tank, HDPE



1| White colour, high form.

Code	Capacity	Interior dimnesions(LxAxH)	Exterior dimensions (LxAxH)
BTB013	100 L	600x500x445 mm	535x450x430 mm
BTB014	20 L	440x315x200 mm	380x280x195 mm
BTB015	50 L	625x365x285 mm	560x330x280 mm
BTB016	80 L	725x440x330 mm	650x380x320 mm



▶ Grey trays, HDPE



Code	Capacity	Dimensions (LxAxH)
BTB020	27 L	340x455x250 mm
BTB021	40 L	350x560x304 mm
BTB022*	75 L	457x503x310 mm

* These references are available under request



▶ Deep tray, PE



Code	Capacity	Dimensions (LxAxH)
BTB034*	10 L	365x157x311 mm
BTB035	30 L	542x195x440 mm

* These references are available under request





▶ BTB - Cuvettes, plastic

▶ Rectangular tank white

**Gilac**
PROFESSIONNEL

1 | Stackable in white LDPE

Code	Capacity	Dimensions
BTB036	55 L	595x320x395 mm

▶ Round bowl

AUTO
+121°**Kartell**1 | Autoclavable at +121 °C for 20 minutes
2 | On the bottom it has two handles for easy transport.

Code	Volumen	Diameter	Height
BTB024	10 L	350 mm	160 mm

▶ Graduated bucket white HDPE

APTO
Kartell1 | Autoclavable at +121 °C for 20 minutes
2 | On the bottom it has two handles for easy transport.

Code	Capacity	Height	Diameter
BTB026	9 L	250 mm	280 mm
BTB025	12 L	280 mm	300 mm
BTB027	17 L	310 mm	340 mm

APTO
ENDO
plasticware

Code	Capacity	Superior diameter	Inferior diameter	Height
BTB030	9 L	270 mm	200 mm	250 mm
BTB028	12 L	302 mm	220 mm	280 mm
BTB029	17 L	335 mm	245 mm	310 mm



▶ BTB - Cuvettes, plastic

▶ Bowls, PP



1 | White. Round. With broad, stable edge and circumferential standing ring on the bottom.

Code	Volume l	Ø mm	Height
BTB500	0,9 L	160 mm	70 mm
BTB501	1,7 L	200 mm	80 mm
BTB502	2,9 L	240 mm	100 mm
BTB503	4,3 L	280 mm	120 mm
BTB504	6,6 L	320 mm	130 mm
BTB505	9,2 L	360 mm	150 mm
BTB506	13,4 L	400 mm	180 mm



▶ Bowl, PP, with lid



1 | White. Rectangular shape.

2 | Broad, stable, easy to grip edge.

3 | Especially easy to clean due to the rounded corners and edges and the smooth surfaces

Code	Volume l	Length mm	Width mm	Height mm
BTB507	17 L	430 mm	331 mm	195 mm



▶ Bowl, PP, with lid



1 | White. Without spout. With division into 1 liter segments.

2 | Stable handle with reinforcement in the middle for comfortable carrying.

3 | Tightly closing, transparent snap-on lid made of PE-LD – please order separately.

Code	Description	Volume l	Graduation l	Ø mm	Height mm
BTB508	Bucket	5	1	250	240
BTB509	Lid, for 5 l	-	-	-	-
BTB510	Bucket	10	1	290	300
BTB511	Lid, for 10 l	-	-	-	-



▶ Buckets with spout, PP



1 | Transparent. With division into 1 liter segments.

2 | With stable handle and spout for easy emptying.

Code	Volume l	Graduation l	Ø mm	Height mm
BTB512	12	1	310	330
BTB513	15	1	310	370





▶ BTB - Cuvettes, plastic

▶ Laboratory trays / catchment trays, PP



1 | White. All-purpose. Robust design. Very good chemical resistance Rounded corners and edges. Smooth surfaces, easy to clean.

Code	Inner bottom dimensions	Edge dimensions	Height
BTB514	130 x 180 mm	180 x 230 mm	42 mm
BTB515	180 x 240 mm	250 x 310 mm	65 mm
BTB516	240 x 300 mm	310 x 370 mm	75 mm
BTB517	300 x 400 mm	420 x 520 mm	120 mm
BTB518	400 x 500 mm	534 x 634 mm	140 mm
BTB519	500 x 700 mm	648 x 846 mm	160 mm

▶ BTG - Cuvettes SS

▶ Round basins



Code	Ø exterior	Ø interior	Height .	Volume
BTG500	133 mm.	118 mm.	45 mm.	400 ml.

▶ Kidney dishes



Code	Dimensions
BTG503	42x300 mm.

▶ Buckets with handles



Code	Dimensions	Capacity
BTG512	42x300 mm	10 L
BTG514	320 Ø x300 mm	12 L



▶ BTL - Trays, plastic

▶ Kidney dish, PP

Kartell

1 | Autoclavable, optimum chemical and thermal resistance.

Code	Lenght	Height	Capacity
BTL001	260 mm	55 mm	850 mL



AUTO
+121°

▶ Bottle tray, PP

Kartell

1 | Autoclavable, optimum chemical and thermal resistance.

Code	Compartimentos	Compartments dimensions
BTL003	9	25x350 mm
BTL004	12	90x90 mm
BTL002	5	100x185 mm (4); 100x385 mm(1)



AUTO
+121°

▶ Bowl trays, PS

Kartell

Code	External dimensions	Internal dimensions
BTL005	201x151x21 mm	170x110x10 mm
BTL008	151x303x21 mm	270x120x10 mm
BTL014	252x353x21 mm	320x220x10 mm
BTL015	254x254x21 mm	220x220x10 mm
BTL006	151x201x41 mm	150x100x30 mm
BTL009	151x303x42 mm	260x110x30 mm
BTL019	353x253x41 mm	310x210x30 mm
BTL011	252x252x42 mm	210x210x30 mm
BTL007	151x202x81 mm	140x90x70 mm
BTL010	151x303x81 mm	240x90x70 mm
BTL013	252x352x81 mm	290x190x70 mm
BTL012	252x252x82 mm	200x200x70 mm
BTL017	300x408x21 mm	380x270x10 mm
BTL018	300x409x42 mm	360x250x30 mm
BTL016	299x408x81 mm	340x250x70 mm



▶ Tray flat without lid, HDPE

Gilac
PROFESSIONNEL

Code	Capacity	Dimensions
BTL020	2 L	300x65x205 mm
BTL021	3 L	350x73x235 mm
BTL022	5 L	435x75x285 mm
BTL023	8 L	490x80x335 mm
BTL024	10 L	540x80x388 mm





B

GENERAL USE - [BT] cuvettes and trays

page
[100]

▶ BTL - Trays, plastic

▶ Instrument trays, MF



VITLAB

1 | White. Flat shape. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	Height mm
BTL500	190 mm	150 mm	17 mm
BTL501	240 mm	180 mm	17 mm
BTL502	268 mm	208 mm	17 mm
BTL503	355 mm	240 mm	17 mm
BTL504	428 mm	288 mm	17 mm

▶ Instrument trays, MF



VITLAB

1 | White. Tall shape. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	Height mm
BTL505	190	150	40
BTL511	290	160	35
BTL507	290	160	60
BTL506	350	250	40

▶ Lids for instrument trays, PS



VITLAB

1 | Crystal clear. Rounded corners. Smooth surfaces, easy to clean.

Code	Length mm	Width mm	For tray
BTL508	190 mm	150 mm	BTL505
BTL509	290 mm	160 mm	BTL507,BTL511

▶ BTN - Trays, inox

AGENCIINOX

1 | 18/10 stainless steel and with flat edge.



Code	Dimensions
BTN001	300x210x40 mm
BTN002	355x255x40 mm



▶ BTQ - Boxes, SS

▶ Dissection box inox



1 | Suitable for autoclave sterilization and ultrasonic cleaning. Supplied without instruments



AUTO
+121°

Code	Dimensions
BTQ001	170x70x30 mm

▶ Boxes with round lids



Code	Dimensions	Volume
BTQ500	140x65 mm	1000 mL
BTQ501	180x75 mm	1500 mL



▶ BTS - Baskets, SS

▶ Round and square basket



1 | For transport, autoclaving or cleaning of material in ultrasonic baths.

Code	Description	Dimensions	Height
BTS001	Round	150 mm	150 mm
BTS002	Round	200 mm	200 mm
BTS003	Round	250 mm	250 mm
BTS004	Square	150x150 mm	150 mm
BTS005	Square	200x200 mm	200 mm
BTS006	Square	250x250 mm	250 mm



▶ Petri dish rack



1 | Made of AISI 304 stainless steel, with electrobright finish.

Code	N° Dishes	Dimensions
BTS500	10	80 to 100 mm Ø



▶ Basket inox



1 | Stainless steel wire. AISI 304. Load capacity up to 8 kg.

Code	For autoclave	Ø / Hight	Basket cap.	Bottle cap.
BTS501	150	47 x 15	5	Ø72x85mm Ø82x115mm
				150 95





▶ BTS - Baskets, SS

▶ Freezer basket



Code	Dimensions	With cross dividers.
BTS505	210 Ø x 180 mm	BTS508
BTS506	150 Ø x 120 mm	BTS509
BTS507	240 Ø x 180 mm	BTS510

▶ BYF - Sample transport/Storage

▶ Freezing box for centrifuge tubes



1| For the freezing of centrifuge tubes, they have a screen-printed grid to identify the samples.

Code	Tubes	Dimensions
BYF001	16*x50 mL	140,6x140,6x120,2 mm
BYF002	49x15 mL	130,5x130,5x110,5 mm

* sin tapón

▶ Freezing box microtubes



1| Autoclavable polypropylene with transparent lid.
2| For 0.2 mL microtubes.

Code	Capacity	Dimensions
BYF003	96 (8x12)	12,6x8,8x3,1 cm

▶ PC freezing rack for cryotubes



1| With transparent lid, made of polycarbonate.
2| Numbered positions on lid and base.

Code	Capacity	Dimensions	Colour
BYF017	81 tubosx1.8 mL	133x13x52 mm	Red
BYF018	81 tubosx1.8 mL	133x13x52 mm	Green
BYF019	81 tubosx1.8 mL	133x13x52 mm	Yellow
BYF020	81 tubosx1.8 mL	133x13x52 mm	Blue



BYF - Sample transport/Storage

▶ Racks with removable trays

Code	Stages	Height stages	Dimensions	Boxes up to
BYF024	2x3	52 mm	140x420x116 mm	133x133 mm
BYF025	2x4	52 mm	140x555x116 mm	133x133 mm
BYF026	3x3	52 mm	140x420x174 mm	133x133 mm
BYF027	3x4	52 mm	140x555x174 mm	133x133 mm
BYF028	4x3	52 mm	140x420x233 mm	133x133 mm
BYF029	4x4	52 mm	140x555x233 mm	133x133 mm
BYF030	5x3	52 mm	140x420x290 mm	133x133 mm
BYF031	5x4	52 mm	140x555x290 mm	133x133 mm
BYF032	6x3	52 mm	140x420x349 mm	133x133 mm
BYF033	6x4	52 mm	140x555x349 mm	133x133 mm
BYF034	7x3	52 mm	140x420x406 mm	133x133 mm
BYF035	7x4	52 mm	140x555x406 mm	133x133 mm
BYF036	3x3	50 mm	143x440x170 mm	135x135 mm
BYF037	4x3	50 mm	143x440x230 mm	135x135 mm
BYF038	5x3	50 mm	143x440x285 mm	135x135 mm
BYF039	4x4	50 mm	143x580x230 mm	135x135 mm
BYF040	5x5	50 mm	143x580x285 mm	135x135 mm
BYF041	3x3	75 mm	143x440x250 mm	135x135 mm
BYF042	3x4	75 mm	143x580x250 mm	135x135 mm
BYF043	2x3	95 mm	143x440x210 mm	135x135 mm
BYF044	2x4	95 mm	143x580x210 mm	135x135 mm



▶ Horizontal Freezer Racks

Rerencia	Stages	Height stages	Dimensions
BYF047	5	50 mm	140x140x280 mm
BYF048	7	50 mm	140x140x390 mm
BYF049	8	50 mm	140x140x445 mm
BYF050	9	50 mm	140x140x500 mm
BYF051	10	50 mm	140x140x555 mm
BYF052	11	50 mm	140x140x610 mm
BYF053	12	50 mm	140x140x665 mm
BYF054	13	50 mm	140x140x720 mm
BYF055	5	75 mm	140x140x405 mm
BYF056	6	75 mm	140x140x485 mm
BYF057	7	75 mm	140x140x565 mm
BYF058	8	75 mm	140x140x645 mm
BYF059	9	75 mm	140x140x725 mm
BYF060	4	95 mm	140x140x400 mm
BYF061	5	95 mm	140x140x500 mm
BYF062	6	95 mm	140x140x600 mm
BYF063	7	95 mm	140x140x700 mm
BYF064	4	125 mm	140x140x525 mm
BYF065	5	125 mm	140x140x655 mm



▶ Upright Freezer Racks

Rerencia	Stages	Height stages	Dimensions
BYF066	3x3	50 mm	140x420x165 mm
BYF067	4x3	50 mm	140x420x223 mm
BYF068	5x3	50 mm	140x420x277 mm
BYF069	4x4	50 mm	140x560x223 mm
BYF070	5x4	50 mm	140x560x277 mm
BYF071	3x3	75 mm	140x420x245 mm
BYF072	3x4	75 mm	140x560x245 mm
BYF073	2x3	95 mm	140x420x200 mm
BYF074	2x4	95 mm	140x560x200 mm
BYF075	2x3	125 mm	140x420x265 mm
BYF076	2x4	125 mm	140x560x265 mm





BYF - Sample transport/Storage



Recipient for instruments and thermometers

KartellAUTO
+121°

1 | Autoclavable, can be used for soaking or for wet sterilization

Code	Body diameter	Height	Capacity
BYF004	60 mm	100 mm	230 mL
BYF005	90 mm	190 mm	1100 mL



Bottle carrier

Kartell

Code	Capacity	Dimensions
BYF006	6 frascos	320x300x200 mm
BYF007	4 frascos	310x300x270 mm



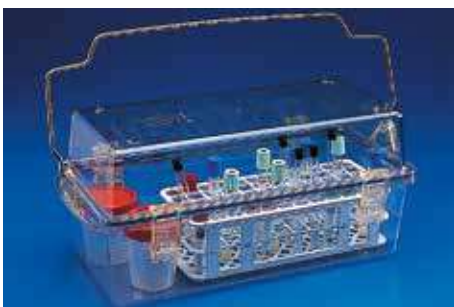
Ice bucket

Kartell

Code	Dimensions
BYF010	145x322x60 mm



Safety box

Kartell

1 | Polycarbonate, completely autoclavable. The lid has a hermetic silicone safety seal.
2 | The biohazard symbol is engraved on the lid.

Code	Capacity	Dimensions
BYF008	4,5 L	330x175x180 mm



Safety box rack

Kartell

1 | For 10 vials of urine up to 200 mL and 4 vials of faeces up to 30 mL.

Code	Dimensions
BYF009	145x322x60 mm



▶ BYF - Sample transport/Storage

▶ Frigo box

Kartell

1 | With thermal insulation by means of polyurethane insulating chambers; approved for use with foodstuffs, completely non-toxic.

ACCESORIOS - Frigo box PS KARTELL

Code	Description
BYF012	Container with cooling liquid
BYF013	Set of 4 sidelocks for safety box
BYF014	Sylicone gasket for safety box

Code	Capacity	Dimensions
BYF011	25 L	230x400x350 mm
BYF023	32 L	260x430x380 mm



▶ Sample containers, PP

VITLAB

1 | Transparent. With snap-on lid made of PE-LD. Conical shape.

Code	Volume ml	Ø mm	Height mm
BYF500	5	20	25
BYF501	18	22	57
BYF502	50	30	97



▶ Sample containers, PP

VITLAB

1 | Transparent. With screw cap made of PP. Cylindrical, tall shape.

Code	Volume ml	Thread GL	Ø mm	Height mm
BYF503	30	40	38	54
BYF505	60	40	38	90
BYF508	90	56	54	62



▶ Sample containers, PFA

VITLAB

1 | With screw cap made of PFA. Cylindrical, tall shape.

Code	Volume ml	Thread GL	Ø mm	Height mm
BYF504	30	40	38	54
BYF506	60	40	38	90
BYF507	90	56	54	62
BYF509	180	56	54	112





BYF - Sample transport/Storage

▶ Box to store cryo vials and microtubes



- 1 | Made from polyethylene, with hinged lid and pressure latch close.
- 2 | 100 cryo vials and 1.5 to 2 mL microtubes

Code	Height*	Width	Lenght	Colour
BYF511	57 mm	141 mm	151 mm	Neutral

*with lid

▶ Box to store cryo vials and microtubes



- 1 | Made from polyethylene, with hinged lid and pressure latch close.
- 2 | 50 cryo vials and 1.5 to 2 mL microtubes

Code	Height*	Width	Lenght	Colour
BYF512	55 mm	80 mm	140 mm	Neutral

*with lid

▶ Storage box



- 1 | Made from polypropylene, with hinged lid and pressure latch close.
- 2 | For 96 tubes of 0.2 ml

Code	Height*	Width	Lenght	Colour
BYF513	30 mm	90 mm	130 mm	Neutral

*with lid

▶ Box for storing 12x10 mm



- 1 | Made from Polypropylene, with hinged lid and pressure latch close.
- 2 | Removable base.
- 3 | Cuvette heights up to 60 mm high.

Code	Height*	Width	Lenght	Colour
BYF514	60 mm	115 mm	115 mm	Neutral

*with lid



▶ BYF - Sample transport/Storage

▶ Freezer boxes for vial storage



- 1 | Made from polycarbonate.
- 2 | Suitable for freezer or liquid nitrogen storage for temperatures between -196 °C to +121 °C.

Code	Height*	Width	Lenght	Box of
BYF515	55 mm	75 mm	75 mm	25 vials
BYF516	55 mm	130 mm	130 mm	100 vials

*with lid



▶ Mini freezer containers "COOLER 1051"



- 1 | Alphanumeric matrix on the lid.
- 2 | It will maintain temperature for up to 2 to 5 hours

Code	Dimensions	Capacity	Temp
BYF517	95 hx 100 d x 140mm w.	12 tubes 0,5-2 mL	0 °C



▶ BYH - Labels

▶ Labels - distilled water



- 1 | 11 transparent and die-cut labels for plastic and glass reagent bottles according to NFPA. Dimensions: 130x35 mm.

Code		Colour
BYH001	DISTILLED WATER	Blue
BYH002	ACETONE	Red
BYH003	METHANOL	Black
BYH004	ISOPROPANOL	Brown
BYH005	ETHYL ACETATE	Orange
BYH006	ETHANOL	Green
BYH007	CHLOROFORM	Black
BYH008	n-HEXANE	Black
BYH009	METHYLENE CHLORIDE	Black
BYH010	TOLUOL	Black
BYH011	XYLOL	Black



▶ PTFE-tape



- 1 | For sealing and wrapping of threads and other connections. High chemical resistance. Working temperatures up to 250 °C.

Code	Width	Lenght
BYH500	141 mm	151 mm





BYH - Labels

▶ PTFE-tape



1 | It resists operating temperatures from -45 °C to 50°C. It can be sterilized by using radiation techniques as hydrogen peroxide.



Code	Roll width	Roll length
BYH501	50 mm	75 mm
BYH502	100 mm	38 mm
BYH503	100 mm	75 mm

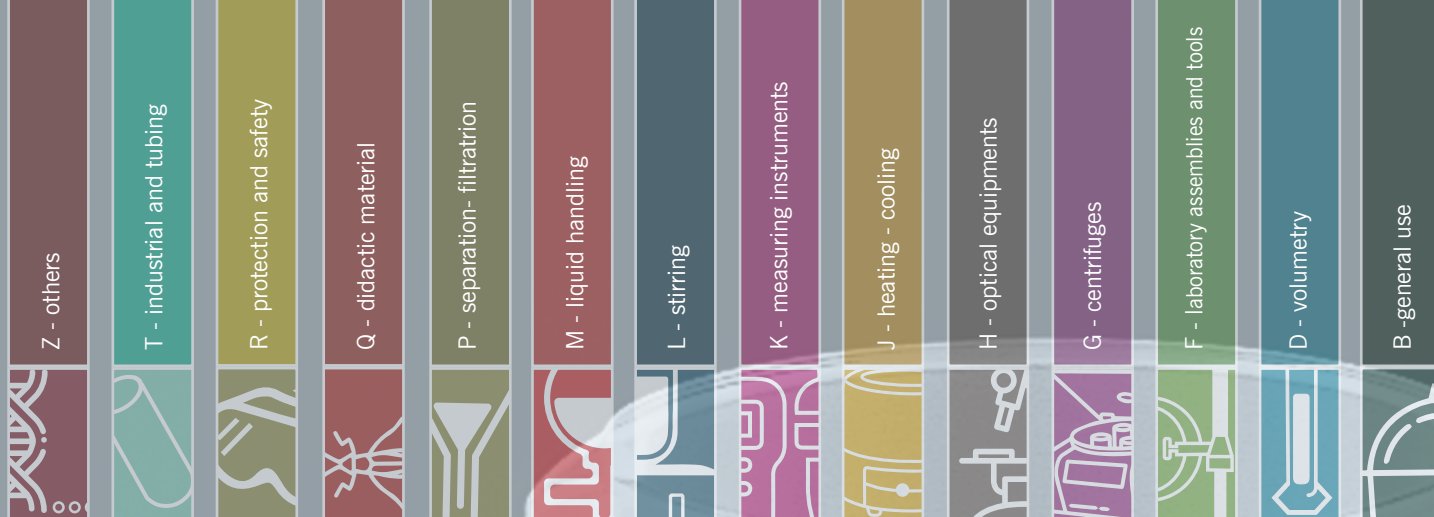
▶ BYK - PTFE tape

Kartell

1 | To protect threads of any kind. Ideal product for contact with food.



Code	Length	Width
BYK001	12 mm	12 mm



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[C] BEAKERS, FLASKS AND OTHER CONTAINERS



VITLAB

ENDO
glassware

AGENCIOR

UMY
TECH REPUBLIC

Kartell

Nahita

ENDO
plasticware

AVIGNON
GERMAY

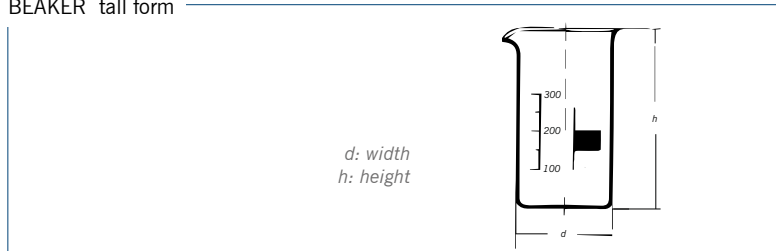
JIB

GLASSCO



CBB - Glass, tall form

BEAKER tall form



Beaker tall form with spout



1 | Graduates.



Code	Capacity	d.	h.
CBB001	25 mL	30 mm	55 mm
CBB002	50 mL	38 mm	70 mm
CBB003	100 mL	48 mm	80 mm
CBB004	150 mL	54 mm	95 mm
CBB005	250 mL	60 mm	120 mm
CBB006	400 mL	70 mm	130 mm
CBB007	600 mL	80 mm	150 mm
CBB008	800 mL	90 mm	175 mm
CBB009	1000 mL	95 mm	180 mm
CBB010	2000 mL	120 mm	240 mm
CBB011	3000 mL	135 mm	280 mm



1 | Graduates.



Code	Capacity	d.	h.
CBB012	25 mL	30 mm	60 mm
CBB013	50 mL	38 mm	70 mm
CBB014	100 mL	48 mm	80 mm
CBB015	150 mL	54 mm	95 mm
CBB016	250 mL	60 mm	120 mm
CBB017	400 mL	70 mm	130 mm
CBB018	600 mL	80 mm	150 mm
CBB019	1000 mL	95 mm	180 mm
CBB020	2000 mL	127 mm	240 mm



CBC - Glass, low form



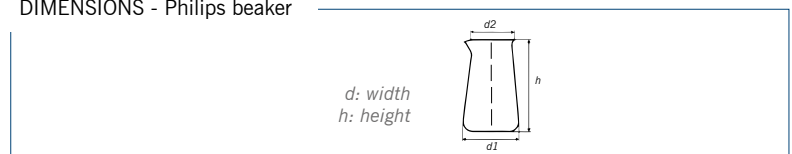
Conical beaker, form Philips



DIMENSIONS - Philips beaker



BORO 3.3



Code	Cap.	d1	d2	h.
CBC001	150 mL	57 mm	40 mm	91 mm
CBC002	250 mL	68 mm	48 mm	110 mm
CBC003	500 mL	88 mm	61 mm	145 mm



▶ CBC - Glass, low form

▶ Beaker low form with handle



1 | Graduates.

Code	Capacity	d.	h.
CBC005	250 mL	70 mm	95 mm
CBC006	400 mL	80 mm	110 mm
CBC007	600 mL	90 mm	125 mm
CBC008	1000 mL	105 mm	145 mm



BORO
3.3

▶ Beaker, intensive use



1 | Reinforced edges and thick walls. Double inverted graduation.

Code	Capacity	d.	h.
CBC009	150 mL	55 mm	90 mm
CBC010	250 mL	68 mm	90 mm
CBC011	400 mL	79 mm	110 mm
CBC012	600 mL	89 mm	123 mm
CBC013	1000 mL	105 mm	152 mm
CBC014	2000 mL	130 mm	196 mm



BORO
3.3

▶ Beaker with spout



Code	Capacity	d.	h.
CBC015	25 mL	35 mm	55 mm
CBC016	50 mL	43 mm	60 mm
CBC017	100 mL	51 mm	71 mm
CBC018	150 mL	61 mm	86 mm
CBC019	250 mL	70 mm	98 mm
CBC020	400 mL	79 mm	115 mm
CBC021	600 mL	90 mm	125 mm
CBC022	800 mL	100 mm	135 mm
CBC023	1000 mL	105 mm	145 mm
CBC024	2000 mL	130 mm	185 mm
CBC025	3000 mL	150 mm	210 mm
CBC026	5000 mL	170 mm	270 mm



BORO
3.3

ISO
3819

Code	Capacity	d.	h.
CBC027	5 mL	22 mm	30 mm
CBC028	10 mL	26 mm	35 mm
CBC029	25 mL	34 mm	50 mm
CBC030	50 mL	42 mm	60 mm
CBC031	100 mL	50 mm	70 mm
CBC032	150 mL	60 mm	80 mm
CBC033	250 mL	70 mm	95 mm
CBC034	400 mL	80 mm	110 mm
CBC035	600 mL	90 mm	125 mm
CBC036	800 mL	100 mm	135 mm
CBC037	1000 mL	105 mm	145 mm
CBC038	2000 mL	130 mm	185 mm
CBC039	3000 mL	150 mm	210 mm
CBC040	5000 mL	170 mm	270 mm
CBC041*	10 L	217 mm	350 mm



BORO
3.3

ISO
3819

* Non-standard



CBC - Glass, low form

▶ Beaker Boudreau with handle



Code	Capacity	d.	h.
CBC043	500 mL	97 mm	124 mm



CBD - Glass, conical shape

▶ Graduated cone shape thick glass



1 | Wide and stable base. With spout

Code	Capacity
CBD004	60 mL
CBD005	125 mL
CBD006	250 mL
CBD007	500 mL

▶ Graduated bell shaped glass



DIMENSIONS - Bell shaped glass

d: width
h: height

1 | Wide and stable base. With spout

Code	Capacity	d1	d2	h.
CBD008	5 mL	26 mm	22 mm	70 mm
CBD009	10 mL	30 mm	25 mm	75 mm
CBD010	25 mL	39 mm	30 mm	90 mm
CBD011	50 mL	50 mm	38 mm	110 mm
CBD012	100 mL	62 mm	49 mm	130 mm
CBD013	250 mL	84 mm	67 mm	160 mm
CBD014	500 mL	102 mm	80 mm	200 mm
CBD015	1000 mL	126 mm	100 mm	240 mm

BORO
3.3

CBF - Plastic, conical shape

▶ Conical measure, PP



1 | Resistant up to +120 °C. Embossed graduation.

Code	Capacity	Graduation	Height
CBF001	100 mL	2 mL	118 mm
CBF002	250 mL	5 mL	164 mm
CBF003	500 mL	10 mL	183 mm
CBF004	1000 mL	20 ml	263 mm





▶ CBF - Plastic, conical shape

▶ Graduated conical measures TPX

Kartell

- 1 | Resistant up to +170 °C.
- 2 | Embossed graduation.

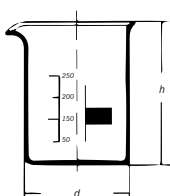
Code	Capacity	Graduation	Height
CBF005	100 mL	2 mL	117 mm
CBF006	250 mL	5 mL	162 mm
CBF007	500 mL	10 mL	183 mm
CBF008	1000 mL	20 mL	163 mm



▶ CBG - Plastic, printed graduation

BEAKER low form

d: width
h: height



▶ Beaker low form, graduated, PMP (TPX)

Kartell

- 1 | Fully transparent, temperature resistance up to +170°C for short periods of time
Excellent chemical resistance.

Code	Cap.	Grad.	d.	h.
CBG001	25 mL	1 mL	34 mm	49 mm
CBG002	50 mL	2 mL	42 mm	60 mm
CBG003	100 mL	5 mL	52 mm	72 mm
CBG004	250 mL	10 mL	71 mm	95 mm
CBG005	500 mL	10 mL	88 mm	119 mm
CBG006	1000 mL	20 mL	110 mm	146 mm
CBG007	2000 mL	50 mL	133 mm	184 mm
CBG008	3000 mL	500 mL	159 mm	200 mm
CBG009	5000 mL	500 mL	190 mm	228 mm



▶ Beaker low form, blue graduated, PP

Kartell

- 1 | Highly transparent heat-resistant polypropylene. Resists +100 °C during continuous use.

Code	Cap.	Grad.	d.	h.
CBG010	25 mL	1 mL	34 mm	49 mm
CBG011	50 mL	2 mL	41 mm	60 mm
CBG012	100 mL	5 mL	51 mm	72 mm
CBG013	250 mL	10 mL	71 mm	95 mm
CBG014	500 mL	10 mL	87 mm	119 mm
CBG015	1000 mL	20 mL	109 mm	147 mm
CBG016	2000 mL	50 mL	132 mm	183.5 mm
CBG017	3000 mL	500 mL	158 mm	201 mm
CBG018	5000 mL	500 mL	188.5 mm	229 mm





CBG - Plastic, printed graduation

▶ Griffin beaker, PMP



1 | Transparent. With legible red printed graduation. In order to protect the print, we recommend not to exceed a temperature of 60 °C while cleaning.

Code	Volume	Divisions	Height	Diameter
CBG501	10 mL	2 mL	35 mm	25 mm
CBG502	25 mL	5 mL	47 mm	31 mm
CBG503	50 mL	10 mL	60 mm	40 mm
CBG504	100 mL	20 mL	70 mm	49 mm
CBG505	150 mL	50 mL	80 mm	56 mm
CBG506	250 mL	50 mL	94 mm	68 mm
CBG507	400 mL	100 mL	109 mm	77 mm
CBG508	500 mL	100 mL	122 mm	88 mm
CBG509	600 mL	100 mL	125 mm	91 mm
CBG511	1000 mL	100 mL	149 mm	102 mm
CBG512	2000 mL	200 mL	183 mm	133 mm
CBG513	3000 mL	200 mL	214 mm	174 mm
CBG514	5000 mL	200 mL	248 mm	185 mm

▶ Griffin beaker, ETFE



Code	Volume	Divisions	Height	Diameter
CBG515	25 mL	5 mL	50 mm	32 mm
CBG516	50 mL	10 mL	59 mm	39 mm
CBG517	100 mL	20 mL	72 mm	50 mm
CBG518	250 mL	50 mL	96 mm	67 mm
CBG519	400 mL	50 mL	109 mm	77 mm
CBG520	600 mL	100 mL	122 mm	88 mm
CBG521	500 mL	100 mL	125 mm	91 mm
CBG522	1000 mL	100 mL	143 mm	105 mm

▶ Griffin beaker, PP



APTO



1 | High transparency. With legible blue printed graduation. In order to protect the print, we recommend not to exceed a temperature of 60 °C while cleaning. Autoclavable with restrictions at 121 °C (2 bar) according to DIN EN 285.

Code	Volume	Divisions	Height	Diameter
CBG523	10 mL	2	36	30
CBG524	25 mL	5	50	38
CBG525	50 mL	10	60	47
CBG526	100 mL	10	70	55
CBG527	150 mL	20	80	66
CBG528	250 mL	25	95	77
CBG529	400 mL	50	111,5	87
CBG530	500 mL	50	117,5	94
CBG531	600 mL	50	126,5	100
CBG532	1000 mL	100	147	120
CBG533	2000 mL	200	187	149
CBG534	3000 mL	250	212	170
CBG535	5000 mL	500	214	203

▶ Griffin beaker, PMP



Code	Volume	Divisions	Height	Diameter
CBG550	25 mL	5 mL	50 mm	38 mm
CBG552	100 mL	10 mL	70 mm	55 mm
CBG559	1000 mL	100 mL	147 mm	120 mm



▶ CBH - Plastic, moulded graduation

▶ Beaker PP low form

ENDO
plasticware

1 | Made of polypropylene, with a spout.

Code	Cap.	Grad.	d.	h.
CBH001	50 mL	10 mL	42 mm	60 mm
CBH002	100 mL	20 mL	54 mm	70 mm
CBH003	250 mL	50 mL	71 mm	100 mm
CBH004	500 mL	100 mL	92 mm	120 mm
CBH005	1000 mL	100 mL	110 mm	145 mm



page
[115]

1 | Highly transparent heat-resistant polypropylene.
2 | Resists +100 °C during continuous use.

Kartell

Code	Cap.	Grad.	d.	h.
CBH006	25 mL	1 mL	34 mm	49 mm
CBH007	50 mL	2 mL	41 mm	60 mm
CBH008	100 mL	5 mL	51 mm	72 mm
CBH009	250 mL	10 mL	71 mm	95 mm
CBH010	500 mL	10 mL	87 mm	119 mm
CBH011	1000 mL	20 mL	109 mm	147 mm
CBH012	2000 mL	50 mL	132 mm	183.5 mm
CBH013	3000 mL	500 mL	158 mm	201 mm
CBH014	5000 mL	500 mL	188.5 mm	229 mm

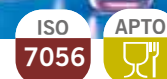


▶ Graduated beaker, low form PMP (TPX)

Kartell

1 | Fully transparent, resist +170°C for short periods of time.

Code	Cap.	Grad.	d.	h.
CBH015	25 mL	1 mL	34 mm	49 mm
CBH016	50 mL	2 mL	42 mm	60 mm
CBH017	100 mL	5 mL	52 mm	72 mm
CBH018	250 mL	10 mL	71 mm	95 mm
CBH019	500 mL	10 mL	88 mm	119 mm
CBH020	1000 mL	20 mL	110 mm	146 mm
CBH021	2000 mL	50 mL	133 mm	184 mm
CBH022	3000 mL	500 mL	159 mm	200 mm
CBH023	5000 mL	500 mL	190 mm	228 mm



▶ Graduated beakers PFA

Kartell

1 | Fluoride resin transparents.
2 | High chemical and thermal resistance (- 250 °C / +270 °C).

Code	Cap.	Grad.	d.	h.
CBH024*	25 mL	5/1 mL	50 mm	32 mm
CBH025*	50 mL	10/1 mL	59 mm	39 mm
CBH026*	100 mL	20/1 mL	72 mm	50 mm
CBH027*	250 mL	50/1 mL	96 mm	67 mm
CBH028*	500 mL	100/1 mL	122 mm	88 mm
CBH029*	1000 mL	100/1 mL	143 mm	109 mm

* This item is supplied on request.





CBH - Plastic, moulded graduation

▶ Griffin beaker, PFA



1 | Excellent chemical resistance and very high thermal stability (-200° to + 260°). With mass graduation. Autoclavable at 121°C according to DIN EN 285..

Code	Volume	Divisions	Height	Diameter
CBH501	25 mL	5 mm	50 mm	32 mm
CBH502	50 mL	10 mm	59 mm	39 mm
CBH503	100 mL	20 mm	72 mm	50 mm
CBH504	250 mL	50 mm	96 mm	67 mm
CBH505	500 mL	100 mm	122 mm	68 mm
CBH506	1000 mL	100 mm	141 mm	109 mm

▶ Griffin beaker, PP



1 | High transparency with permanent relief graduation. Autoclavable at 121°C (2 bar) according to DIN EN 285.

Code	Volume	Divisions	Height	Diameter
CBH509	25 mL	5 mm	50 mm	38 mm
CBH510	50 mL	10 mm	60 mm	47 mm
CBH511	100 mL	10 mm	70 mm	55 mm
CBH512	150 mL	20 mm	80 mm	66 mm
CBH513	250 mL	25 mm	95 mm	77 mm
CBH514	400 mL	50 mm	111,5 mm	87 mm
CBH515	600 mL	50 mm	126,5 mm	100 mm
CBH516	1000 mL	100 mm	147 mm	120 mm
CBH517	2000 mL	200 mm	187 mm	149 mm
CBH518	3000 mL	250 mm	212 mm	170 mm
CBH519	5000 mL	500 mm	247 mm	203 mm



CBJ - Inox, with spout

▶ Beaker with spout



1 | Stamped, neat steel finish. Shiny stainless steel. With flared edge.

Code	Volume	Diameter	Height
CBJ501	250 ml	72 mm	84 mm
CBJ502	500 ml	86 mm	129 mm
CBJ503	1000 ml	102 mm	150 mm
CBJ504	2000 ml	132 mm	180 mm
CBJ505	3000 ml	156 mm	180 mm
CBJ506	4000 ml	178 mm	200 mm
CBJ507	5000 ml	197 mm	220 mm



CBK - Inox, without spout

▶ Beaker Inox, with spout



Code	Capacity
CBK001*	250 mL
CBK002*	500 mL
CBK003*	1000 mL

* This item is supplied on request.



▶ CBK - Inox, without spout

▶ Beaker inox

COMECTA

Code	Volume	Diameter	Height
CBK508	250 ml	72 mm	84 mm
CBK509	500 ml	86 mm	129 mm
CBK510	1000 ml	102 mm	150 mm
CBK511	2000 ml	132 mm	180 mm
CBK512	3000 ml	156 mm	180 mm
CBK513	4000 ml	178 mm	200 mm
CBK514	5000 ml	197 mm	220 mm



▶ Dye beaker



Code	Volume
CBK515	500 mL



▶ Medicine cups

COMECTA

Code	Volume
CBK516	30 mL
CBK517	50 mL



▶ CBL - Inox, lid

▶ Lid for beakers



Code	Volume
CBL507	250 ml
CBL501	1 L
CBL502	2 L
CBL503	3 L
CBL505	4 L
CBL506	5 L



▶ CBM - Porcelain, tall form

▶ Beaker high form



Code	Volume	Diameter base	Height
CBM001*	170 mL	52 mm	90 mm
CBM002*	225 mL	57 mm	106 mm
CBM003*	450 mL	70 mm	143 mm
CBM004*	1100 mL	101 mm	157 mm



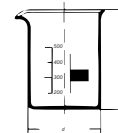


▶ CBN - Porcelain, low form

▶ Beaker low form with spout



DIMENSIONS - Beaker low form

d: width
h: height

1 | With spout.

Code	Cap.	d.	h.
CBN001	275 mL	70 mm	85 mm
CBN002	400 mL	80 mm	99 mm
CBN003*	620 mL	90 mm	116 mm
CBN004*	860 mL	100 mm	129 mm
CBN005	950 mL	123 mm	100 mm

* This item is supplied on request.

▶ CBP - PTFE

▶ Beaker, PTFE

**Kartell**

1 | Exceptional chemical, mechanical and heat resistance (withstands temperatures up to +250 °C and in short periods of time up to +300 °C)

Code	Cap.	d.	h.
CBP001	50 mL	42.23 mm	55.36 mm
CBP002	100 mL	53.85 mm	68.67 mm
CBP003	250 mL	66.58 mm	92.69 mm
CBP004	500 mL	80.35 mm	122.39 mm
CBP005*	1000 mL	102.67 mm	157 mm

* This item is supplied on request.

▶ Beaker, PTFE



Code	Cap.	Grad.	d.	h.
CBP006	250 mL	10/1	82 mm	100 mm
CBP007	500 mL	10/1	95 mm	125 mm
CBP008	1000 mL	100/1	110 mm	180 mm
CBP009	2000 mL	20/1	155 mm	220 mm
CBP010	2000 mL	20/1	155 mm	220 mm

▶ Beaker, PTFE



1 | Excellent chemical resistance and high thermal stability (-200 and + 260 °C.). Also suitable for microwave ovens.

Code	Volume	Ep.	Height	Diameter basse
CBP501	5 mL	2 mm	24 mm	22 mm
CBP502	10 mL	2 mm	39 mm	25 mm
CBP503	25 mL	2 mm	47 mm	32 mm
CBP504	50 mL	2 mm	55 mm	42 mm
CBP505	100 mL	3 mm	68 mm	55 mm
CBP506	250 mL	3 mm	93 mm	62 mm
CBP507	500 mL	4 mm	126 mm	81 mm
CBP508	1000 mL	4 mm	157 mm	102 mm



▶ CCB - Plastic, moulded graduation

▶ Graduated jug tall form, PP

1 | Polypropylene. With spout and handle for easy handling.

Code	Cap.	Grad.	d.	h.
CCB001	250 mL	10/1	82 mm	100 mm
CCB002	500 mL	10/1	95 mm	125 mm
CCB003	1000 mL	100/1	110 mm	180 mm
CCB004	2000 mL	20/1	155 mm	220 mm

ENDO
plasticware



1 | With spout and handle for easy handling.

Kartell

Code	Cap.	Grad.	d.	h.
CCB011	250 mL	5/1	73 mm	119 mm
CCB012	500 mL	10/1	93 mm	140 mm
CCB013	1000 mL	10/1	117 mm	169 mm
CCB014	2000 mL	20/1	149 mm	213 mm
CCB015	3000 mL	50/1	172 mm	20 mm



1 | High transparency. With embossed graduation and sturdy, practical handle. Autoclavable at 121 °C (2 bar) according to DIN EN285.

VITLAB

Code	Volume	Divis.	Height	Diameter	Pack
CCB501	50 mL	2 ml	70 mm	40 mm	24
CCB502	100 mL	2 mL	80 mm	50 mm	24
CCB503	250 mL	5 mL	120 mm	70 mm	12
CCB504	500 mL	10 mL	133 mm	91 mm	12
CCB505	1000 mL	20 mL	182 mm	116 mm	6
CCB506	2000 mL	50 mL	215 mm	150 mm	6
CCB507	3000 mL	50 mL	242 mm	170 mm	6
CCB508	5000 mL	100 mL	270 mm	210 mm	6



▶ Graduated jug short form, PP

1 | Polypropylene. With spout and handle for easy handling.

ENDO
plasticware

Code	Cap.	Grad.	d.	h.
CCB005	250 mL	10/1	85 mm	85 mm
CCB006	500 mL	10/1	90 mm	118 mm
CCB007	1000 mL	50/1	119 mm	130 mm
CCB008	2000 mL	20/1	143 mm	167 mm
CCB009	3000 mL	100/1	167 mm	180 mm
CCB010	5000 mL	250/1	190 mm	270 mm



1 | Indelible graduation.

Kartell

Code	Cap.	Grad.	d.	h.
CCB016	500 mL	25 mL	90 mm	116 mm
CCB017	1000 mL	50 mL	116 mm	131 mm
CCB018	2000 mL	50 mL	145 mm	165 mm
CCB019	3000 mL	100 mL	165 mm	180 mm
CCB020	5000 mL	250 mL	190 mm	225 mm





▶ CCB - Plastic, moulded graduation

▶ Graduated pitcher, SAN



VITLAB

1 | Transparent. With embossed graduation and solid, practical handle.

Code	Volume	Division	Height	Diameter	Pack
CCB510	250 ml	5 mL	120 mm	70 mm	12
CCB511	500 ml	10 mL	133 mm	91 mm	12
CCB512	1000 ml	10 mL	170 mm	116 mm	6
CCB513	2000 ml	20 mL	215 mm	150 mm	6
CCB514	3000 ml	50 mL	242 mm	170 mm	6

▶ CCD - Plastic, printed graduation

▶ Graduated pitcher, PP



VITLAB

1 | High transparency. With easy-to-read embossed blue scale and solid, practical handle. To preserve the graduation, cleaning is recommended < 60°C.

Code	Volume	Division	Height	Diameter	Pack
CCD501	50 mL	2 mL	70 mm	40 mm	24
CCD502	100 mL	2 mL	80 mm	50 mm	24
CCD503	250 mL	5 mL	120 mm	70 mm	12
CCD504	500 mL	10 mL	133 mm	91 mm	12
CCD505	1000 mL	20 mL	182 mm	116 mm	6
CCD506	2000 mL	50 mL	215 mm	150 mm	6
CCD507	3000 mL	50 mL	242 mm	170 mm	6
CCD508	5000 mL	100 mL	270 mm	210 mm	6

▶ Graduated pitcher, nesting, PP



VITLAB

1 | High transparency. With easy-to-read embossed blue scale and solid, practical handle. To preserve the graduation, cleaning is recommended < 60°C.

Code	Volume	Division	Height	Diameter	Pack
CCD509	250 ml	5 mm	115 mm	75 mm	12
CCD510	500 ML	10 mm	140 mm	100 mm	12
CCD511	1000 ML	10 mm	167 mm	125 mm	12
CCD512	2000 ML	20 mm	212 mm	148 mm	12
CCD513	3000 ML	50 mm	242 mm	170 mm	12

▶ Graduated pitcher, nesting



VITLAB

Code	Volume	Color	Division	Height	Diameter	Pack
CCD514	500 ml	Green	10 mm	140 mm	100 mm	12
CCD515	500 ml	Red	10 mm	140 mm	100 mm	12
CCD516	500 ml	Yellow	10 mm	140 mm	100 mm	12
CCD517	500 m	Blue	10 mm	140 mm	100 mm	12
CCD518	Set of graduated beakers PP, 500 ml					

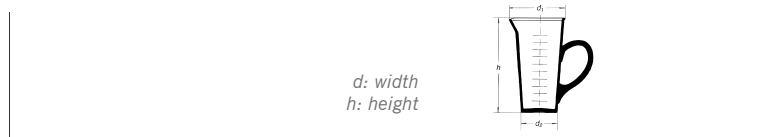


CCF - Glass with spout

Graduated measure, conical



DIMENSIONS - Conical



BORO
3.3

1 | With graduation and handle.

Code	Capacity	d1.	d2.	h.
CCF002*	100 mL	57 mm	42 mm	115 mm
CCF003*	250 mL	75 mm	55 mm	40 mm
CCF004*	500 mL	100 mm	70 mm	170 mm
CCF005*	1000 mL	120 mm	90 mm	225 mm
CCF001*	2000 mL	145 mm	107 mm	270 mm

* This item is supplied on request.

CCG - Inox, with spout

Beakers inox



Code	Volume	Diameter	Height
CCG501	250 ml	72 mm	84 mm
CCG502	500 ml	86 mm	129 mm
CCG503	1000 ml	102 mm	150 mm
CCG504	2000 ml	132 mm	180 mm
CCG505	3000 ml	156 mm	180 mm
CCG506	4000 ml	178 mm	200 mm
CCG507	5000 ml	197 mm	220 mm



CCJ - Inox without spout



Code	Capacity
CCJ001	1000 mL

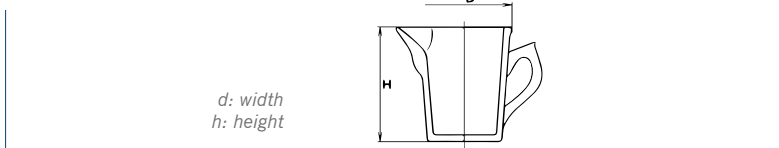
* This item is supplied on request.



CCL - Porcelain



GRADUATED JUG



Code	Capacity	d.	h.
CCL001*	100 mL	71 mm	72 mm
CCL002*	250 mL	82 mm	96 mm
CCL003*	500 mL	97 mm	131 mm
CCL004*	1000 mL	127 mm	160 mm

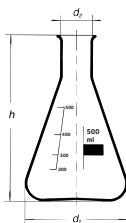
* This item is supplied on request.



CDB - Erlenmeyer, glass

ERLENMEYER FLASK glass

d: width
h: height



▶ Narrow neck



ISO
1773

Code	Cap.	d1.	d2.	h.
CDB001	25 mL	42 mm	22 mm	75 mm
CDB002	50 mL	51 mm	22 mm	90 mm
CDB003	100 mL	64 mm	22 mm	105 mm
CDB005	250 mL	85 mm	34 mm	145 mm
CDB007	500 mL	105 mm	34 mm	180 mm
CDB008	1000 mL	131 mm	42 mm	220 mm
CDB009	2000 mL	166 mm	50 mm	280 mm
CDB010	3000 mL	187 mm	50 mm	310 mm
CDB011	5000 mL	220 mm	50 mm	365 mm



BORO
3.3



1 | Labeling surface.

Code	Cap.	d1.	d2.	h.
CDB012	25 mL	45 mm	18 mm	70 mm
CDB013	50 mL	55 mm	23 mm	80 mm
CDB014	100 mL	65 mm	30 mm	110 mm
CDB015	250 mL	85 mm	32 mm	140 mm
CDB016	500 mL	105 mm	35 mm	185 mm
CDB017	1000 mL	130 mm	44 mm	215 mm
CDB018	2000 mL	170 mm	40 mm	290 mm
CDB019	3000 mL	190 mm	40 mm	310 mm

▶ Reinforced straight rim



BORO
3.3



1 | Labeling surface.

Code	Cap.	d1.	d2.	h.
CDB020	50 mL	51 mm	22 mm	85 mm
CDB021	100 mL	64 mm	22 mm	105 mm
CDB022	250 mL	85 mm	34 mm	140 mm
CDB023	500 mL	105 mm	34 mm	175 mm
CDB024	1000 mL	131 mm	42 mm	220 mm
CDB051	2000 mL	166 mm	50 mm	280 mm



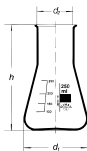
▶ CDB - Erlenmeyer, glass

▶ Wide neck



DIMENSIONS - Erlenmeyer wide neck

d: width
h: height



BORO
3.3

1 | Labeling surface.

Code	Cap.	d1.	d2.	h.
CDB025	50 mL	51 mm	34 mm	85 mm
CDB026	100 mL	64 mm	34 mm	110 mm
CDB027	250 mL	85 mm	50 mm	140 mm
CDB028	500 mL	105 mm	50 mm	170 mm
CDB029	1000 mL	131 mm	50 mm	200 mm

▶ Wide neck



Code	Cap.	d1.	d2.	h.
CDB030	25 mL*	42 mm	32 mm	70 mm
CDB031	50 mL*	51 mm	34 mm	85 mm
CDB032	100 mL*	64 mm	34 mm	105 mm
CDB033	250 mL*	79 mm	50 mm	131 mm
CDB034**	200 mL	85 mm	50 mm	140 mm
CDB035	300 mL	87 mm	50 mm	156 mm
CDB036	500 mL*	105 mm	50 mm	175 mm
CDB037	1000 mL*	131 mm	50 mm	220 mm
CDB038	2000 mL*	153 mm	72 mm	280 mm

* These capacities do not correspond to the ISO, DIN.

** Last units



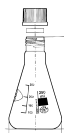
ISO
24450

▶ With screw cup



DIMENSIONS - Erlenmeyer with screw cup

d: width
h: height



Code	Cap.	d1.	d2.	h.
CDB039	25 mL	100 mL	64 mm	100 mm
CDB040	32 mL	250 mL	85 mm	140 mm
CDB043	45 mL	250 mL	85 mm	150 mm
CDB041	32 mL	500 mL	105 mm	175 mm
CDB044	45 mL	500 mL	105 mm	185 mm
CDB045	45 mL	1000 mL	131 mm	225 mm
CDB042	32 mL	1000 mL	131 mm	215 mm



ISO
24450



CDB - Erlenmeyer, glass

▶ Flask for culture baffled

BORO
3.3AUTO
+121°

1 | For cell cultures. Without screw

Code	Cap.	h.
CDB062	250 mL	138 mm
CDB063	500 mL	186 mm
CDB064	1000 mL	222 mm
CDB065	2000 mL	282 mm

▶ Baffled



1 | For cell cultures. GL 45.

Code	Cap.	d.	h.
CDB047	250 mL	85 mm	150 mm
CDB048	500 mL	105 mm	185 mm
CDB049	1000 mL	131 mm	225 mm
CDB050	2000 mL	160 mm	290 mm

▶ Flask for culture baffled

BORO
3.3AUTO
+121°

1 | For cell cultures. GL 45.

Code	Cap.	d.	h.
CDB066	250 mL	82 mm	130 mm
CDB067	500 mL	101 mm	165 mm
CDB068	1000 mL	129 mm	205 mm
CDB069	2000 mL	166 mm	265 mm

▶ Erlenmeyer



1 | Rigid, transparent, autoclavable, unbreakable, recyclable...

Code	Volume	Weight	Density	Screw
CDB501	250 mL	1,2 Kg	1,20 g/ml	No
CDB502	250 mL	1,2 Kg	1,20 g/ml	Yes



▶ CDD - Erlenmeyer, plastic

▶ Erlenmeyer, PP

Kartell

1 | Standardized neck.

Code	Neck	Cap.	Grad.
CDD001	14/23	50 mL	10 mL
CDD002	14/23	125 mL	25 mL
CDD003	19/26	250 mL	25 mL
CDD004	24/29	500 mL	50 mL
CDD005	29/32	1000 mL	50 mL
CDD006	34/35	2000 mL	100 mL



page
[125]

▶ Erlenmeyer Flasks PC

VITLAB

1 | Erlenmeyer Flasks, glass clear, with screw cap (PP), developed and designed for tissue and sterile culture applications.

Code	Volume	Graduation	Thread GL
CDD501	500 mL	100 mL	GL 52
CDD502	250 mL	50 mL	GL 52



▶ Erlenmeyer, PP, PMP

VITLAB

1 | For all usual laboratory uses. Standard neck. Autoclavable.

Code	Filetage GL	Volume	Divis.	Col RIN
CDD503	40	50 ml	10 ml	34/35
CDD505	52	250 ml	50 ml	45/40



▶ Wide-neck Erlenmeyer Flasks

VITLAB

1 | Translucent, conical flasks, supplied complete with PP screw-caps.

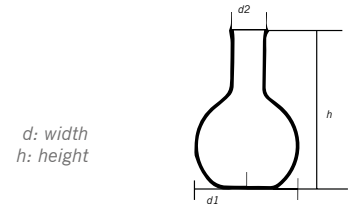
Code	Volume	Graduation	Thread GL
CDD510	250 mL	50 mL	GL 52
CDD512	1000 mL	200 mL	GL 52





CDG - Flat bottom, glass

FLASK round bottom, glass



Flat bottom flask

BORO
3.3

1| Blank labeling surface.

Code	Cap.	d1.	d2.	h.
CDG001	50 mL	50 mm	22 mm	105 mm
CDG002	100 mL	65 mm	22 mm	108 mm
CDG003	250 mL	85 mm	34 mm	140 mm
CDG004	500 mL	105 mm	34 mm	180 mm
CDG005	1000 mL	135 mm	43 mm	210 mm
CDG006	2000 mL	160 mm	52 mm	250 mm
CDG007	3000 mL	188 mm	59 mm	282 mm

BORO
3.3

Code	Cap.	d1.	d2.	h.
CDG013	50 mL	51 mm	22 mm	100 mm
CDG014	100 mL	64 mm	22 mm	110 mm
CDG015	250 mL	85 mm	34 mm	140 mm
CDG016	500 mL	105 mm	34 mm	170 mm
CDG017	1000 mL	131 mm	42 mm	200 mm
CDG018	2000 mL	166 mm	50 mm	250 mm
CDG019	4000 mL	207 mm	50 mm	300 mm
CDG020	6000 mL	236 mm	65 mm	340 mm
CDG021	10 L	279 mm	65 mm	400 mm

Narrow neck

BORO
3.3

1| With rim, not grinded

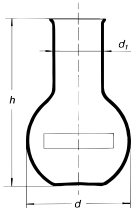
Code	Cap.	d1.	d2.	h.
CDG023	50 mL	51 mm	26 mm	90 mm
CDG024	100 mL	64 mm	26 mm	105 mm
CDG025	250 mL	85 mm	26 mm	138 mm
CDG026	500 mL	105 mm	34 mm	163 mm
CDG027	1000 mL	131 mm	42 mm	190 mm



CDG - Flat bottom, glass

Flask flat bottom, glass

d : width
 h : height



Wide neck



1 | With rim.

Code	Cap.	d1.	d2.	h.
CDG022	50 mL	51 mm	34 mm	100 mm
CDG008	100 mL	64 mm	34 mm	110 mm
CDG009	250 mL	85 mm	50 mm	140 mm
CDG010	500 mL	105 mm	50 mm	170 mm
CDG011	1000 mL	131 mm	50 mm	200 mm
CDG012	2000 mL	166 mm	76 mm	250 mm



BORO
3.3

1 | With rim, not grinded



Code	Cap.	d1.	d2.	h.
CDG028	100 mL	64 mm	34 mm	105 mm
CDG029	250 mL	85 mm	50 mm	138 mm
CDG030	500 mL	105 mm	50 mm	163 mm
CDG031	1000 mL	131 mm	50 mm	190 mm
CDG032	2000 mL	166 mm	76 mm	230 mm

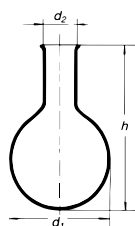


BORO
3.3

CDJ - Round bottom, glass

FLASK round bottom, glass

d : width
 h : height



Narrow neck



1 | Blank labeling surface.

Code	Cap.	d1.	d2.	h.
CDJ001	50 mL	50 mm	22 mm	105 mm
CDJ002	100 mL	65 mm	22 mm	108 mm
CDJ003	250 mL	85 mm	34 mm	140 mm
CDJ004	500 mL	105 mm	34 mm	180 mm
CDJ005	1000 mL	135 mm	43 mm	210 mm
CDJ006	2000 mL	175 mm	50 mm	270 mm
CDJ007	5000 mL	230 mm	56 mm	345 mm



BORO
3.3



CDJ - Round bottom, glass

▶ Narrow neck

BORO
3.3

1 | With rim.

Code	Cap.	d1.	d2.	h.
CDJ008	50 mL	51 mm	11 mm	105 mm
CDJ009	100 mL	64 mm	22 mm	115 mm
CDJ010	250 mL	85 mm	34 mm	145 mm
CDJ011	500 mL	105 mm	34 mm	175 mm
CDJ012	1000 mL	131 mm	42 mm	210 mm
CDJ013	2000 mL	166 mm	50 mm	260 mm
CDJ014	4000 mL	207 mm	50 mm	315 mm
CDJ015	6000 mL	236 mm	65 mm	355 mm
CDJ016	10 L	279 mm	65 mm	420 mm
CDJ017	20 L	345 mm	80 mm	500 mm

BORO
3.3

1 | With rim.

Code	Cap.	d1.	d2.	h.
CDJ029	50 mL	51 mm	26 mm	95 mm
CDJ030	100 mL	64 mm	26 mm	110 mm
CDJ031	250 mL	85 mm	34 mm	143 mm
CDJ032	500 mL	105 mm	34 mm	168 mm

▶ Kjeldahl

BORO
3.3

1 | Mineralization flasks.

Code	Cap.	d1.	d2.	h.
CDJ020	100 mL	60 mm	34 mm	200 mm
CDJ021	250 mL	81 mm	34 mm	270 mm
CDJ022	500 mL	101 mm	34 mm	300 mm

BORO
3.3

1 | Mineralization flasks.

Code	Cap.	Ground	h.	d
CDJ034	50 mL	19/16	200 mm	-
CDJ035	100 mL	24/19	200 mm	-
CDJ036	250 mL	-	295 mm	85 mm
CDJ037	500 mL	-	300 mm	101 mm



▶ CDM - Round bottom, plastic

▶ Round bottom flask, PFA

Kartell

- 1 | For vacuum use and distillation and evaporation of high purity chemicals.
- 2 | For rotary evaporation and distillation of high purity chemicals. For vacuum use.

Code	Neck	Cap.	Grad.	d.
CDM001*	29/32	250 ml	147 mm	88 mm

* This item is supplied on request.



- 1 | DIN 12348 (Glass) with Standard ground socket. For Rotary Evaporators and distillation of high pure chemicals.

Code	Cap.	Height	d.
CDM501	100 ml	117 mm	65 mm
CDM502	250 ml	147 mm	88 mm
CDM503	500 ml	177 mm	107 mm

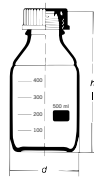
VITLAB



▶ CFB - Clear glass

ISO BOTTLE, glass

d: width
h: height



▶ ISO ECO bottle blue

ENDO
glassware

- 1 | Made of soda-lime glass.
- 2 | Discharge blue ring and screw PP.
- 3 | Graduation and white labeling surface. DIN GL45 thread.

Code	Cap.	d.	h.
CFB001	100 mL	56 mm	105 mm
CFB002	250 mL	70 mm	143 mm
CFB003	500 mL	86 mm	182 mm
CFB004	1000 mL	101 mm	203 mm



▶ ISO bottle with red screw and ring

SIMAX
CZECH REPUBLIC

- 1 | Made of borosilicate glass, graduated.
- 2 | Screw cap DIN GL45, silicon seal.
- 3 | PBT discharge ring and screw (sterilizable up to 200° C).

Code	Cap.	d.	h.
CFB005	100 mL	56 mm	105 mm
CFB006	250 mL	70 mm	143 mm
CFB007	500 mL	86 mm	181 mm
CFB008	1000 mL	101 mm	230 mm
CFB010	3800 mL	160 mm	320 mm





CFB - Clear glass

▶ ISO bottle with blue screw and ring



- 1 | Graduate.
- 2 | PP discharge ring and screw (sterilizable up to 140° C).

Code	Cap.	GL.	d2.	h.
CFB023	50 mL	32	46 mm	91 mm
CFB014	100 mL	45	56 mm	105 mm
CFB015	250 mL	45	70 mm	143 mm
CFB016	500 mL	45	86 mm	181 mm
CFB017	1000 mL	45	101 mm	230 mm
CFB018	2000 mL	45	136 mm	265 mm
CFB019	3800 mL	45	160 mm	320 mm
CFB020	5000 mL	45	181 mm	336 mm
CFB021	10000 mL	45	227 mm	416 mm
CFB022	20000 mL	45	288 mm	512 mm

▶ ISO bottle with blue screw and ring, GL80



DIMENSIONS - Bottle with blue screw and ring

d: width
h: height



- 1 | Graduate. DIN GL80 screw cap. Oval shape.

Code	Cap.	Dimensions	h.
CFB024	500 mL	94x94 mm	139 mm
CFB025	1000 mL	105x105 mm	185 mm
CFB026	2000 mL	225x115 mm	258 mm
CFB027	5000 mL	160x160 mm	357 mm

▶ ISO bottle, for pressure



- 1 | With a pressure resistance of -1 to +1.5 bar.
- 2 | Sterilizable up to 135 °C. DIN GL45 screw cap.

Code	Cap.	d.	h.
CFB033	1000 mL	108 mm	236 mm
CFB034	2000 mL	143 mm	266 mm

▶ ISO flask without screw and ring



Code	Cap.	d.	h.
CFB035	100 mL	56 mm	100 mm
CFB036	250 mL	70 mm	138 mm
CFB037	500 mL	86 mm	176 mm
CFB038	1000 mL	101 mm	225 mm
CFB039	2000 mL	136 mm	260 mm



CFB - Clear glass

ISO bottle with green srew and ring



- 1 | Graduate GL45
- 2 | PP discharge ring and screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFB040	100 mL	56 mm	100 mm
CFB041	250 mL	70 mm	138 mm
CFB042	500 mL	86 mm	176 mm
CFB043	1000 mL	101 mm	225 mm
CFB044	2000 mL	136 mm	260 mm
CFB045	3800 mL	160 mm	320 mm
CFB046	5000 mL	186 mm	330 mm
CFB047	10 L	234 mm	410 mm
CFB049	20 L	299 mm	505 mm



BORO 3.3 ISO 4796-1

ISO bottle with orange srew and ring



- 1 | Graduate GL45
- 2 | PP discharge ring and screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFB050	100 mL	56 mm	100 mm
CFB051	250 mL	70 mm	138 mm
CFB052	500 mL	86 mm	176 mm
CFB053	1000 mL	101 mm	225 mm
CFB054	2000 mL	136 mm	260 mm
CFB055	3800 mL	160 mm	320 mm
CFB056	5000 mL	186 mm	330 mm
CFB057	10 L	234 mm	410 mm
CFB059	20 L	299 mm	505 mm



BORO 3.3 ISO 4796-1

ISO bottle with yellow srew and ring



- 1 | Graduate GL45
- 2 | PP discharge ring and screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFB060	100 mL	56 mm	100 mm
CFB061	250 mL	70 mm	138 mm
CFB062	500 mL	86 mm	176 mm
CFB063	1000 mL	101 mm	225 mm
CFB064	2000 mL	136 mm	260 mm
CFB065	3800 mL	160 mm	320 mm
CFB066	5000 mL	186 mm	330 mm
CFB067	10 L	234 mm	410 mm
CFB069	20 L	299 mm	505 mm



BORO 3.3 ISO 4796-1

CFD - Amber glass

ISO bottle with blue srew and ring



- 1 | Topaz color, graduated. DIN GL45 screw cap. PP discharge ring and screw (sterilizable up to 140° C).

Code	Cap.	GL	d.	Height
CFD011	50 mL	32	46 mm	91 mm
CFD001	100 mL	45	56 mm	105 mm
CFD002	250 mL	45	70 mm	143 mm
CFD003	500 mL	45	86 mm	182 mm
CFD004	1000 mL	45	101 mm	203 mm
CFD005	2000 mL	45	136 mm	260 mm
CFD006	3800 mL	45	160 mm	320 mm
CFD007	5000 mL	45	181 mm	330 mm
CFD008	10 L	45	227 mm	410 mm
CFD009	20 L	45	288 mm	512 mm



ISO 4796-1 BORO 3.3



CFD - Amber glass

▶ ISO bottle with blue screw and ring, GL80



BORO 3.3 ISO 4796-1

- 1 | Topaz color, graduated. Not autoclavable.
- 2 | Screw cap GL80; oval shape.
- 3 | Discharge ring and PP screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFD012	500 mL	94x94 mm	139 mm
CFD013	1000 mL	105x105 mm	185 mm
CFD014	2000 mL	115x115 mm	258 mm
CFD015	5000 mL	160x160 mm	357 mm

▶ ISO bottle with green screw and ring



BORO 3.3 ISO 4796-1

- 1 | Graduate GL45
- 2 | Discharge ring and PP screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFD019	100 mL	56 mm	100 mm
CFD020	250 mL	70 mm	138 mm
CFD021	500 mL	86 mm	176 mm
CFD022	1000 mL	101 mm	225 mm
CFD023	2000 mL	136 mm	260 mm
CFD024	3800 mL	160 mm	320 mm
CFD025	5000mL	186 mm	330 mm
CFD026	10 L	234 mm	410 mm
CFD028	20 L	299 mm	505 mm

▶ ISO bottle with orange screw and ring



BORO 3.3 ISO 4796-1

- 1 | Graduate GL45
- 2 | Discharge ring and PP screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFD029	100 mL	56 mm	100 mm
CFD030	250 mL	70 mm	138 mm
CFD031	500 mL	86 mm	176 mm
CFD032	1000 mL	101 mm	225 mm
CFD033	2000 mL	136 mm	260 mm
CFD034	3800 mL	160 mm	320 mm
CFD035	5000 mL	186 mm	330 mm
CFD036	10 L	234 mm	410 mm
CFD038	20 L	299 mm	505 mm

▶ ISO bottle with yellow screw and ring



BORO 3.3 ISO 4796-1

- 1 | Graduate GL45
- 2 | Discharge ring and PP screw (sterilizable up to 140° C).

Code	Cap.	d.	h.
CFD039	100 mL	56 mm	100 mm
CFD040	250 mL	70 mm	138 mm
CFD041	500 mL	86 mm	176 mm
CFD042	1000 mL	101 mm	225 mm
CFD043	2000 mL	136 mm	260 mm
CFD044	3800 mL	160 mm	320 mm
CFD045	5000 mL	186 mm	330 mm
CFD046	10 L	234 mm	410 mm
CFD048	20 L	299 mm	505 mm



CFG - Accessories

▶ Outlet ring for bottles



1 | The PBT ring (REF. CFG041) has a thermal resistance of 200 °C. PP rings have a thermal resistance of 140 °C.

Code	Color	GL.	Material
CFG041	Red	45	PBT
CFG043	Blue	45	PP
CFG045	Blue	32	PP



page
[133]

▶ PBT cup



1 | The PBT screw (REF. CFG042) has a thermal resistance of 200 °C. PP plugs have a thermal resistance of 140 °C.

Code	Color	GL.	Material
CFG042	Red	45	PBT
CFG044	Blue	45	PP
CFG046	Blue	32	PP



▶ Blue PP cap and pouring ring



1 | Thermal resistance of 140 °C.

Code	Color	GL.	Material
CFG048	Blue	80	PP



▶ PP screw cap GL14



1 | For inserting tubes, probes or thermometers (max. Ø 8.5 mm). Suitable for aggressive environments (vapours). GL 45.

Code	Output
CFG049	2xGL14
CFG050	3xGL14



▶ Sealing GL45



1 | Resistance up to 200 °C.

Code	GL	Diameter	Height
CFG053	45	42 mm	3 mm





CFG - Accessories

Sealing with screw



1 | Two PBTP screw plugs with PTFE GL thread; PTFE seal. For connecting two GL threads of identical diameter. Temperature resistance up to 180 °C.

Code	GL	Length
CFG069	14	15 mm
CFG070	18	17 mm
CFG071	25	22 mm
CFG072	32	22 mm
CFG073	45	23 mm

Screw cap PP GL45



1 | Screw, GL45 in PP. For entrance/exit of liquids. Limited chemical resistance; temperatures up to 110 °C.

Code	Olives	Olive calibrated	For tubes D.I.
CFG074	2	6	6/9 mm
CFG075	3	6	6/9 mm
CFG076	2	7	7/11 mm

CGB - Wide mouth, glass

Tin with metal lid



1 | Flat base and wide mouth.

Code	Cap.	Height	Ø mouth
CGB001	125 mL	50 mm	60 mm
CGB002	250 mL	90 mm	70 mm
CGB003	500 mL	110 mm	70 mm
CGB004	1000 mL	170 mm	70 mm
CGB005	2000 mL	210 mm	100 mm
CGB006	4000 mL	260 mm	100 mm

CGD - Wide mouth, plastic

Graduated flask, neck bottles

Kartell

1 | PE body and PP screw.

Code	Cap.	Grad.	h.	Ø mouth
CGD001	50 mL	10 mL	77 mm	24 mm
CGD002	100 mL	20 mL	89 mm	24 mm
CGD003	250 mL	25 mL	126 mm	34,5 mm
CGD004	500 mL	50 mL	158 mm	34,5 mm
CGD005	1000 mL	100 mL	200 mm	45 mm
CGD006	2000 mL	100 mL	247 mm	45 mm





▶ CGD - Wide mouth, plastic

▶ Graduated wide neck bottle

ENDO
plasticware

1 | Made of low density PE, neutral colour.

Code	Cap.	Grad.	Height	Ø mouth
CGD052	50 mL	10 mL	77 mm	24 mm
CGD053	100 mL	20 mL	89 mm	24 mm
CGD054	250 mL	25 mL	126 mm	34.5 mm
CGD055	500 mL	50 mL	161 mm	34.5 mm
CGD056	1000 mL	100 mL	201 mm	45 mm
CGD057	2000 mL	100 mL	250 mm	45 mm



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▶ Square urine bottle

Kartell

1 | Made of HDPE.

Code	Capacity	Ø mouth	Color
CGD007	2000 ml	75 mm	White
CGD008	2000 ml	75 mm	Brown



1 | PE body and PP screw.

Kartell

Code	Cap.	Grad.	Dimensions	Ø mouth
CGD009	25 mL	5 mL	32x34x52 mm	18 mm
CGD010	50 mL	10 mL	38x38x70 mm	24 mm
CGD011	100 mL	20 mL	42x48x90 mm	34.5 mm
CGD012	250 mL	50 mL	57x60x110 mm	34.5 mm
CGD013	500 mL	100 mL	70x80x138 mm	45 mm
CGD014	1000 mL	100 mL	80x103x176 mm	58 mm
CGD015	2000 mL	100 mL	100x134x210 mm	58 mm



1 | Made of high-density polyethylene, neutral colour.

ENDO
plasticwar

Code	Cap.	Grad.	Dimensions	Ø mouth
CGD058	25 mL	5 mL	30x32 mm	18.5 mm
CGD059	50 mL	10 mL	35x37 mm	24 mm
CGD060	100 mL	20 mL	44x47 mm	34.5 mm
CGD061	250 mL	50 mL	57x60 mm	34.5 mm
CGD062	500 mL	100 mL	70x80 mm	45 mm
CGD063	1000 mL	100 mL	82x102 mm	60 mm
CGD064	2000 mL	100 mL	100x134 mm	60 mm





CGD - Wide mouth, plastic

▶ Graduated bottle, PE



APTO

**Kartell**

1 | Neck and thread according to DIN 13316 and 168.

Code	GL	Cap.	Grad.	Ø mouth	Height
CGD023	32	50 mL	10 mL	24 mm	88 mm
CGD024	32	100 mL	20 mL	24 mm	105 mm
CGD025	45	250 mL	25 mL	38 mm	140 mm
CGD026	45	500 mL	100 mL	38 mm	170 mm
CGD027	63	1000 mL	100 mL	55 mm	206 mm
CGD028	63	2000 mL	100 mL	55 mm	252 mm

▶ Graduated bottle, PP



APTO

**Kartell**

1 | Neck and thread according to DIN 13316 and 168.

Code	GL	Cap.	Grad.	Ø mouth	Height
CGD029	32	50 mL	10 mL	24 mm	88 mm
CGD030	32	100 mL	20 mL	24 mm	105 mm
CGD031	45	250 mL	25 mL	38 mm	140 mm
CGD032	45	500 mL	100 mL	38 mm	170 mm
CGD033	63	1000 mL	100 mL	55 mm	206 mm
CGD034	63	2000 mL	100 mL	55 mm	252 mm

▶ Cylindrical jars



APTO

**Kartell**

1 | Made of HDPE. With shutter under the screw.

Code	Cap.	Diameter	Ø mouth	Height
CGD016	70 mL	50 mm	36 mm	60 mm
CGD017	120 mL	56 mm	36 mm	71 mm
CGD018	250 mL	69 mm	50 mm	94 mm
CGD019	500 mL	86 mm	70 mm	107 mm
CGD020	1000 mL	111 mm	85 mm	128 mm
CGD021	2000 mL	111 mm	87 mm	235 mm
CGD022	1500 mL	111 mm	87 mm	182 mm



APTO

**ENDO**
plasticware

1 | Made of high density polypropylene, neutral color.

Code	Capacity	Diameter	Height	Ø mouth
CGD043	70 mL	50 mm	60 mm	36 mm
CGD044	120 mL	57 mm	70 mm	36 mm
CGD045	250 mL	67 mm	90 mm	50 mm
CGD046	500 mL	91 mm	103 mm	70 mm
CGD047	1000 mL	110 mm	127 mm	86 mm
CGD048	2000 mL	125 mm	185 mm	85 mm



CGD - Wide mouth, plastic

Bottles, PFA

Kartell

1 | Transparent fluoride resin with high chemical and temperature resistance (-250 °C / +270 m°C). Completely watertight seal.

Code	Cap.	Grad.	Dimensions	Ø mouth
CGD035*	50 mL	28	37,4 mm	85,7 mm
CGD036*	100 mL	28	45,4 mm	113,6 mm
CGD037*	250 mL	40	60 mm	148 mm
CGD038*	500 mL	40	75,5 mm	178 mm
CGD039*	1000 mL	40	95,5 mm	214,8 mm

* This item is supplied on request.



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Bottles wide neck secure cap HDPE

Kartell

1 | Screw sealed with tape opening

Code	Cap.	Ø mouth	Height
CGD040	250 mL	30 mm	137 mm
CGD041	500 mL	30 mm	177 mm
CGD042	1000 mL	30 mm	229 mm



Wide mouth bottle with secure cap HDPE

ENDO
plasticware

1 | Made of high density polypropylene, neutral color..

Code	Cap.	Diameter	Height	Ø mouth
CGD049	250 mL	60 mm	140 mm	30 mm
CGD050	500 mL	74 mm	179 mm	30 mm
CGD051	1000 mL	90 mm	218 mm	30 mm



Wide neck bottles PE

ENDO
plasticware

1 | Made of low-density polyethylene, neutral colour.

Code	GL	Cap.	Ø mouth	Height
CGD066	32	50 mL	24 mm	77 mm
CGD068	32	100 mL	24 mm	92 mm
CGD067	40	250 mL	31 mm	123 mm
CGD065	50	500 mL	38,5 mm	153 mm
CGD069	65	1000 mL	50 mm	202 mm
CGD070	65	2000 mL	50 mm	243 mm





CGD - Wide mouth, plastic

Wide neck bottles, PP

ENDO
plasticware

1 | Made of low-density polyethylene, neutral colour.

Code	GL	Cap.	Ø mouth	Height
CGD071	32	50 mL	24 mm	77 mm
CGD072	32	100 mL	24 mm	92 mm
CGD073	40	250 mL	31 mm	123 mm
CGD074	50	500 mL	38.5 mm	153 mm
CGD075	65	1000 mL	50 mm	202 mm
CGD076	65	2000 mL	50 mm	243 mm

Wide-mouth bottle, PE-LD with leakproof cap

VITLAB



1 | With leakproof caps with seal. Improved design having eyes for attaching tags or seals.

Code	Cuello	Volume	Height	Diameter
CGD501	36	500 mL	160 mm	75 mm
CGD502	50	1000 mL	200 mm	95 mm
CGD503	50	2000 mL	250 mm	115 mm

Wide-mouth bottle, PE-HD with screw cap

VITLAB



1 | Space-saving thanks to the square cross-section and the upward-stretched shoulder. Wide neck for easy filling, also ideal for powders and pasty materials.

Code	GL	Volume	Height	Dimensions
CGD504	32	100 ml	78 mm	46x46 mm
CGD505	45	250 ml	83 mm	80x80 mm
CGD506	45	500 ml	120 mm	90x90 mm
CGD507	63	1000 ml	168 mm	90x90 mm

Wide-mouth bottle, PE-LD, with screw cap

VITLAB



1 | Wide neck for easy filling, also ideal for powders and pasty materials. Soft material with good resilience.

Code	GL	Volume	Height	Diameter
CGD508	32	50 mL	87 mm	39 mm
CGD509	32	100 mL	94 mm	47 mm
CGD510	45	250 mL	146 mm	58 mm
CGD511	45	500 mL	166 mm	76 mm



CGD - Wide mouth, plastic

Wide-mouth bottle, PE-LD, with screw cap, PP



1 | Good chemical resistance, ideal for long-term storage of liquids.

Code	GL	Volume	Height	Diameter
CGD512	63	1000 mL	226 mm	91 mm
CGD513	45	500 mL	166 mm	76 mm



Reagent bottle, wide-mouth, PP



1 | Wide neck for easy filling, also ideal for powders and pasty materials. Soft material with good resilience.

Code	GL	Volume	Height	Diameter
CGD515	32	100 mL	96 mm	55 mm
CGD517	45	500 mL	172 mm	87 mm
CGD518	45	1000 mL	197 mm	105 mm
CGD520	45	2000 mL	241 mm	131 mm
CGD521	63	2000 mL	243 mm	131 mm
CGD522	45	5000 mL	315 mm	178 mm



Wide-mouth bottles, PFA



1 | Transparent. With screw cap made of PFA with buttress threads.

Code	Thread	Volume	Height	Diameter
CGD523	S 40	250 mL	150 mm	61 mm
CGD524	S 40	500 mL	179 mm	76 mm
CGD525	S 40	1000 mL	217 mm	96 mm
CGD526	S 40	2000 mL	245 mm	130 mm



VITgrip lab bottle, PP



- 1 | With tamper-proof cap. Tight closing system**.
- 2 | Made of PP
- 3 | According to EU standard No. 10/2011 for food contact

Code	GL	Volume	Graduation	Précision	Height*	ø base	Pack
CGD527	45	125 ml	12.5 mL	± 5%	103 mm	54 mm	6
CGD528	45	250 ml	25 mL	± 5%	149 mm	64 mm	6
CGD529	45	500 ml	25 mL	± 5%	192 mm	77 mm	6
CGD530	45	1000 ml	50 mL	± 5%	234 mm	97 mm	6
CGD531	45	2000 ml	100 mL	± 5%	278 mm	126 mm	1

* without the cap

**Health conditions tested by the manufacturer : The laboratory bottle VITgrip™ is to be filled at the top with distilled water and is closed with the supplied VITLAB® screw cap and after snapping on the ring of the tamper-evident closure - with a torque of 3 Nm. The bottle is then turned upside down and remains upside down on the cap for 24 hours without any water escaping. The test was carried out at room temperature (approx. 20°C) and atmospheric pressure. Please note that the transferability of this test is not assured as it depends on many factors. Each case must first be tested by the user.





CGD - Wide mouth, plastic



Wide-mouth bottle, PE-LD



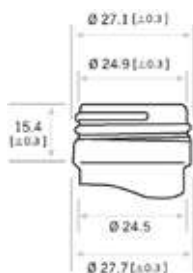
1 | Wide neck for easy filling, also ideal for powders and pasty materials, soft material with good resilience.

Code	Volume	GL	Height	Diameter
CGD532	50 ml	32	80 mm	38 mm
CGD533	100 ml	32	94 mm	48 mm
CGD534	250 ml	40	126 mm	62 mm
CGD535	500 ml	50	155 mm	76 mm
CGD536	1000 ml	65	208 mm	93 mm
CGD537	2000 ml	65	246 mm	120 mm



CGG - Narrow mouth, glass

DIN28, characteristics and dimensions thread



- 1 | Made of type III soda-lime glass.
- 2 | Fulfills the requirements of the European and United States Pharmacopoeia.

*d: width
h: height*



DIN28, transparent



Code	Capacity	Height	Ø base
CGG001	30 mL	67 mm	35 mm
CGG002	60 mL	94 mm	39 mm
CGG003	125 mL	114 mm	49 mm
CGG004	250 mL	143 mm	62 mm
CGG005	500 mL	177 mm	77 mm
CGG006	1000 mL	216 mm	97 mm

* See available caps.



DIN28, amber



Code	Capacity	Height	Ø base
CGG007	30 mL	67 mm	35 mm
CGG008	60 mL	94 mm	39 mm
CGG009	100 mL	114 mm	49 mm
CGG010	125 mL	114 mm	49 mm
CGG011	250 mL	143 mm	62 mm
CGG012	500 mL	177 mm	77 mm
CGG013	1000 mL	216 mm	97 mm

* See available caps.



CGG - Narrow mouth, glass

DIN18, characteristics

- 1 | Made of type III soda-lime glass.
- 2 | Comply with European and United States Pharmacopoeia requirements.



*d: width
h: height*

DIN18, transparent



Code	Capacity	Height	Ø base
CGG014	5 mL	50 mm	22 mm
CGG015	10 mL	58 mm	25 mm
CGG016	15 mL	65 mm	28 mm
CGG017	30 mL	79 mm	33 mm
CGG018	50 mL	92 mm	37 mm
CGG019	100 mL	112 mm	44 mm

* See available caps.



DIN18, amber



Code	Capacity	Height	Ø base
CGG020	5 mL	50 mm	22 mm
CGG021	10 mL	58 mm	25 mm
CGG022	15 mL	65 mm	28 mm
CGG023	30 mL	79 mm	33 mm
CGG024	50 mL	92 mm	37 mm
CGG025	100 mL	112 mm	44 mm

* See available caps.



DIN18, Cobalt blue



Code	Capacity	Height	Ø base
CGG026	5 mL	50 mm	22 mm
CGG027	10 mL	58 mm	25 mm
CGG028	15 mL	65 mm	28 mm
CGG029	30 mL	79 mm	33 mm
CGG053	50 mL	92 mm	37 mm
CGG054	100 mL	112 mm	44 mm

* See available caps.



DIN18, green



Code	Capacity	Height	Ø base
CGG030	5 mL	50 mm	22 mm
CGG031	10 mL	58 mm	25 mm
CGG032	15 mL	65 mm	28 mm
CGG033	30 mL	79 mm	33 mm

* See available caps.





CGJ - Narrow mouth, plastic

▶ Graduated bottle, PE

**Kartell**

1 | Sealed screw with tape opening.

Code	Cap.	Grad.	Height	Ø mouth
CGJ001	50 mL	10 mL	70 mm	18,5 mm
CGJ002	125 mL	20 mL	107 mm	18,5 mm
CGJ003	250 mL	25 mL	131 mm	23 mm
CGJ004	500 mL	50 mL	157 mm	23 mm
CGJ005	1000 mL	100 mL	205 mm	33 mm

▶ Graduated narrow mouth bottle, PE

**ENDO**
plasticware

1 | Made of low density polyethylene. Neutral colour.

Code	Capacity	Grad.	Ø mouth	Height
CGJ033	50 mL	10 mL	18,5 mm	76 mm
CGJ034	100 mL	20 mL	18,5 mm	115 mm
CGJ035	250 mL	25 mL	23 mm	138 mm
CGJ036	500 mL	50 mL	23 mm	165 mm
CGJ037	1000 mL	100 mL	34,5 mm	213 mm
CGJ038	2000 mL	100 mL	34,5 mm	273 mm

**Kartell**

1 | Neck and threads according to DIN 13316 and 168

Code	GL	Cap.	Grad.	Ø mouth
CGJ006	18	50 mL	10 mL	13 mm
CGJ007	18	100 mL	20 mL	13 mm
CGJ008	25	250 mL	25 mL	19 mm
CGJ009	25	500 mL	100 mL	19 mm
CGJ010	32	1000 mL	100 mL	23 mm

**ENDO**
plasticware

1 | Made of polypropylene. Neutral color, can be filled with substances at high temperature.

Code	Cap.	GL	Ø mouth	Height
CGJ042	20 mL	GL14	9 mm	57 mm
CGJ043	100 mL	GL18	13 mm	102 mm
CGJ044	250 mL	GL25	18 mm	138 mm
CGJ045	500 mL	GL25	18 mm	169 mm
CGJ046	1000 mL	GL28	21 mm	212 mm



▶ CGJ - Narrow mouth, plastic

▶ Bottle with screw, PFA

Kartell

1 | Fluorinated resin bottles with high chemical and temperature resistance (-200 °C / +250 °C).

2 | Screw ETFE. With lid under the screw to guarantee a watertight seal.

Code	GL	Cap.	Ø mouth	Height
CGJ011	28	50 mL	38,4 mm	89,4 mm
CGJ012	28	100 mL	46 mm	118 mm
CGJ013	40	250 mL	61,5 mm	159,2 mm
CGJ014	40	500 mL	76,3 mm	190 mm
CGJ015	40	1000 mL	96,8 mm	236 mm



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▶ Grey bottle, PE

Kartell

1 | Totally opaque. With lid under the screw to guarantee a watertight seal. Holes on the back for security seals or labels.

Code	Cap.	Grad.	Ø mouth	Height
CGJ016	50 mL	10 mL	18,5 mm	70 mm
CGJ017	125 mL	20 mL	18,5 mm	107 mm
CGJ018	250 mL	25 mL	23 mm	131 mm
CGJ019	500 mL	50 mL	23 mm	157 mm
CGJ020	1000 mL	100 mL	33 mm	205 mm
CGJ021	2000 mL	100 mL	33 mm	266 mm



1 | Made of high density polyethylene. Dark grey colour.

ENDO
plasticware

Code	Cap.	Diameter	Ø mouth	Height
CGJ052	250 mL	60 mm	23 mm	138 mm
CGJ053	500 mL	74 mm	23 mm	165 mm
CGJ054	1000 mL	93 mm	34,5 mm	213 mm
CGJ055	2000 mL	116 mm	34,5 mm	273 mm



▶ Narrow neck bottle, HDPE

Kartell

Code	Cap.	Grad.	Ø mouth	Height
CGJ022	50 mL	36 mm	17,5 mm	84 mm
CGJ023	100 mL	44 mm	17,5 mm	101 mm
CGJ024	250 mL	60 mm	22,5 mm	136 mm
CGJ025	500 mL	74 mm	22,5 mm	170 mm
CGJ026	1000 mL	90 mm	22,5 mm	222 mm





▶ CGJ - Narrow mouth, plastic

▶ With secure cap, HDPE



1 | Made of high density polyethylene. Neutral color.

Code	Capacity	Diameter	Ø mouth	Height
CGJ039	250 mL	60 mm	22 mm	136 mm
CGJ040	500 mL	74 mm	22 mm	170 mm
CGJ041	1000 mL	90 mm	22 mm	222 mm

▶ PE narrow neck bottle



Kartell

1 | They can be sealed with the corresponding holes at the base of the neck.
2 | Neck and thread according to DIN 13316 and 168.

Code	GL	Capacity	Grad.	Ø mouth
CGJ031	18	50 mL	10 mL	13 mm
CGJ027	18	100 mL	20 mL	13 mm
CGJ032	25	250 mL	25 mL	19 mm
CGJ028	25	500 mL	100 mL	19 mm
CGJ029	32	1000 mL	100 mL	23 mm
CGJ030	32	2000 mL	500 mL	23 mm

▶ Narrow bottle, PE



1 | Neutral colour.
2 | Depending on the Screw used they can be used as single bottle, wash bottle and dropper bottle.

Code	GL	Cap.	Diameter	Ø mouth	Height
CGJ047	18	50mL	40 mm	13 mm	84 mm
CGJ048	18	100mL	45 mm	13 mm	102 mm
CGJ056	25	250mL	60 mm	18 mm	138 mm
CGJ049	25	500mL	75 mm	18 mm	169 mm
CGJ050	28	1000mL	95 mm	21 mm	212 mm
CGJ051	28	2000mL	120 mm	21 mm	260 mm

▶ DIN 28 PET, Transparent bottle narrow neck



1 | Light and resistant material. High resistance to wear and corrosion.

Code	Capacity	Diameter	Height
CGJ058	100 mL	42 mm	105 mm
CGJ059	120 mL	46 mm	113 mm
CGJ060	150 mL	47 mm	123 mm
CGJ061	250 mL	55 mm	145 mm
CGJ062	500 mL	68 mm	182 mm
CGJ063	1000 mL	85 mm	220 mm



▶ CGJ - Narrow mouth, plastic

▶ DIN 28 PET, Amber bottle narrow neck



1 | Light and resistant material. High resistance to wear and corrosion..

Code	Capacity	Diameter	Height
CGJ064	100 mL	42 mm	105 mm
CGJ065	120 mL	46 mm	113 mm
CGJ066	150 mL	47 mm	123 mm
CGJ067	250 mL	55 mm	145 mm
CGJ068	500 mL	68 mm	182 mm
CGJ069	1000 mL	85 mm	220 mm



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▶ Narrow-mouth bottle PE-LD



1 | Economical version for routine work. Flexible with good resilience.

Code	Volume	GL	Height	Diameter
CGJ501	10 ml	14	50 mm	26 mm
CGJ502	20 ml	14	58 mm	31 mm
CGJ503	30 ml	14	66 mm	34 mm
CGJ504	100 ml	18	106 mm	45 mm
CGJ505	250 ml	25	140 mm	59 mm
CGJ506	500 ml	25	180 mm	75 mm
CGJ507	1000 ml	28	212 mm	94 mm
CGJ508	2000 ml	28	264 mm	117 mm



▶ Narrow-mouth bottle, with screw cap



1 | Ideally suited for the long-term storage of oxidizing agents, acids, alkalis and hydrocarbons, solvents and standards for very pure trace analysis.

Code	Volume	GL	Height	Diameter
CGJ509	50 mL	S 28	86 mm	37 mm
CGJ510	100 mL	S 28	120 mm	45 mm
CGJ511	250 mL	S 28	160 mm	61 mm
CGJ512	250 mL	S 28	190 mm	76 mm
CGJ513	1000 mL	S 28	240 mm	96 mm



▶ Reagent bottle, narrow-mouth, PP, with screw cap



1 | For long-term storage of liquids. Autoclavable according to DIN EN 285. Volume 10000 mL with 2 handles

Code	Volume	GL	Height	ø
CGJ517	250 mL	25	132 mm	70 mm
CGJ518	500 mL	25	165 mm	87 mm
CGJ519	1000 mL	32	202 mm	108 mm
CGJ520	2000 mL	63	204 mm	108 mm
CGJ522	10000 mL	63	394 mm	222 mm



▶ Narrow-mouth bottle, PE-HD



1 | Space-saving thanks to the square cross-section and the upwardly stretched shoulder. With PP screw cap.

Code	Volume	GL	Height	Dimensions	ø int. col
CGJ523	100 ml	25	76 mm	43x43 mm	17,5 mm
CGJ524	250 ml	28	80 mm	80x80 mm	21 mm
CGJ525	500 ml	32	106 mm	90x90 mm	24 mm
CGJ526	1000 ml	32	187 mm	80x80 mm	24 mm





▶ CGJ - Narrow mouth, plastic

▶ Narrow-mouth bottle, with screw cap



VITLAB

1 | Transparent. High-shouldered. With PP screw cap. Soft material with good resilience.

Code	GL	Volume	Height	Diameter
CGJ527	18	50 mL	73 mm	37 mm
CGJ528	18	100 mL	95 mm	43 mm
CGJ529	25	250 mL	135 mm	58 mm
CGJ530	25	500 mL	180 mm	74 mm
CGJ531	32	1000 mL	221 mm	92 mm

▶ Narrow-mouth bottle, with screw cap



VITLAB

1 | Transparent. High-shouldered. With PP screw cap. Soft material with good resilience.

Code	GL	Volume	Height	Diameter
CGJ540	GL 32	1000 mL	215 mm	92 mm

▶ Screw cap, PP



VITLAB

1 | Transparent. High-shouldered. With PP screw cap. Soft material with good resilience.

Code	GL
CGJ550	GL18
CGJ551	GL25
CGJ552	GL32
CGJ553	GL40
CGJ554	GL45
CGJ555	GL52
CGJ556	GL56
CGJ557	GL63

▶ CGL - Stoppers for glass bottles

▶ Stopper DIN18



ENDO
plasticware

- Made of polyethylene.
- Security Screw with seal, with internal removable dropper.

Code	Description
CGL002	Safety stopper DIN18, inner dropper, yellow
CGL030	Stopper DIN18, black



▶ CGL - Stoppers for glass bottles

▶ Stopper DIN18



1 | Made of polyethylene plastic. Screw with seal. Internal dropper

Code	Description
CGL023	Stopper DIN18, inner dropper, white



▶ Dropping stopper DIN18, white



1 | Polyethylene screw with seal. Silicone nipple, glass tube.

Code	Description
CGL003	For bottles 5 mL
CGL004	For bottles 10 mL
CGL005	For bottles 15 ml
CGL006	For bottles 30 mL
CGL007	For bottles 50 mL
CGL008	For bottles 100 mL



▶ Dropping stopper DIN18, black



1 | Polyethylene screw with seal. Silicone nipple, glass tube.

Code	Description
CGL024	For bottles 5 mL
CGL025	For bottles 10 mL
CGL026	For bottles 15 ml
CGL027	For bottles 30 mL
CGL028	For bottles 50 mL
CGL029	For bottles 100 mL



▶ Safety screw-cap DIN28



Code	Description
CGL009	White security screw



▶ Srew cap with seal DIN28



1 | Caps with polyethylene seal, in various colours.

Code	Screw colour	Seal colour
CGL010	Black	Black
CGL011	White	Red
CGL012	Blue	White
CGL013	Red	White
CGL014	Green	White
CGL015	Yellow	White





CGL - Stoppers for glass bottles

▶ Dropper plastic stopper DIN28

ENDO
plasticware

1 | In polyethylene; the tube can be cut to fit bottles from 1000 ml to 30 ml. With seal.

Code	Colour
CGL019	Blue

▶ Stopper, tube and teat DIN28

ENDO
glassware

1 | Polyethylene screw with seal, silicone nipple and glass tube

Code	For bottles of
CGL020	30 mL
CGL021	60 mL
CGL022	125 mL

▶ CGN - Stoppers for plastic bottles

▶ Screw caps , HDPE



Kartell

1 | Provided with holes for security seals. Manufactured in HDPE.

Code	GL
CGN001	18
CGN002	25
CGN003	32
CGN004	45
CGN005	63

▶ Screw caps, PP



Kartell

1 | Provided with holes for security seals. Made of PP.

Code	GL
CGN006	18
CGN007	25
CGN008	32
CGN009	45
CGN010	63



CGN - Stoppers for plastic bottles

Screw caps, PE



1| Provided with holes for security seals. Made of PP.

Code	GL
CGN011	18
CGN012	25
CGN013	28



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CGQ - PTFE

Bottle PTFE



1| They can be used safely and continuously at temperatures from -270°C to 250 °C. Very resistant to acids and very aggressive mixtures.

2| With lid under the Screw to guarantee a watertight seal.

Code	Cap.	Ø mouth	Height
CGQ001	100 mL	35,24 mm	89,82 mm
CGQ002*	250 mL	42 mm	118,40 mm
CGQ003*	500 mL	51,15 mm	147,15 mm
CGQ004*	1000 mL	57 mm	184,21 mm

* This item is supplied on request.



1| Made of PTFE. Excellent chemical and mechanical resistance. Withstand temperatures up to +260°C and +340°C for short periods of time

Code	Cap.	Ø mouth	Height
CGQ005	25 mL	35 mm	77 mm
CGQ006	100 mL	51 mm	35 mm
CGQ007	250 mL	68 mm	41 mm
CGQ008	500 ml	80 mm	41 mm
CGQ009	1000 ml	100 mm	48 mm



1| Very high thermal and chemical resistance. Very wide neck, ideal for receiving powders or pasty materials. White, No transparent.

Code	Volume.	Filetage GL	Height	Diamètre
CGQ501	10 ml	12	50 mm	26 mm
CGQ502	25 ml	19	61 mm	33 mm





CHB - Wide mouth, glass

▶ Transp. bottle, plastic stopper



Code	Glass	Capacity	Ø base	h.
CHB001	Transparent	125 mL	54 mm	95 mm
CHB005	Amber	100 mL	54 mm	95 mm
CHB002	Transparent	250 mL	74 mm	125 mm
CHB006	Amber	250 mL	74 mm	125 mm
CHB003	Transparent	500 mL	88 mm	165 mm
CHB007	Amber	500 mL	88 mm	165 mm
CHB004	Transparent	1000 mL	112 mm	200 mm
CHB008	Amber	1000 mL	112 mm	200 mm

▶ Wide mouth bottle



Code	Glass	Cap.	Ø base	h.	Ground
CHB021	Transparent	5000 mL	181 mm	338 mm	85/55
CHB040	Transparent	10000 mL	227 mm	408 mm	85/55



CHD - Wide mouth, plastic

▶ Reagent bottles, PP



Code	Capacity	Diameter	Height	Neck
CHD501	100 mL	55 mm	111 mm	NS 29/32
CHD503	500 mL	87 mm	183 mm	NS 45/40
CHD504	1000 mL	108 mm	214 mm	NS 60/46



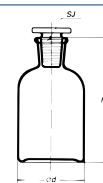
CHG - Narrow mouth, glass

▶ Transp. bottle, plastic stopper



FRASCOS narrow mouth

d: width
h: height



Code	Glass	Cap.	Ø base	h.
CHG001	Transparent	100 mL	54 mm	95 mm
CHG005	Amber	100 mL	54 mm	95 mm
CHG002	Transparent	250 mL	74 mm	125 mm
CHG006	Amber	250 mL	74 mm	125 mm
CHG003	Transparent	500 mL	88 mm	165 mm
CHG007	Amber	500 mL	88 mm	165 mm
CHG004	Transparent	1000 mL	112 mm	200 mm
CHG008	Amber	1000 mL	112 mm	200 mm



▶ CHG - Narrow mouth, glass

▶ Transp. bottle, glass stopper



Code	Glass	Cap.	Ø base	h.	Ground
CHG009	Transparent	50 mL	41,5 mm	77 mm	14/15
CHG010	Transparent	100 mL	51,5 mm	103 mm	14/23
CHG011	Transparent	250 mL	69 mm	131 mm	19/26
CHG012	Transparent	500 mL	85 mm	163 mm	24/29
CHG013	Transparent	1000 mL	106,5 mm	199 mm	29/32
CHG014	Transparent	2000 mL	133 mm	245 mm	29/32
CHG016	Amber	100 mL	51,5 mm	103 mm	14/23
CHG017	Amber	250 mL	69 mm	131 mm	19/26
CHG018	Amber	500 mL	85 mm	163 mm	24/29
CHG019	Amber	1000 mL	106,5 mm	199 mm	29/32
CHG020	Amber	2000 mL	133 mm	245 mm	29/32

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Code	Glass	Cap.	Ø base	Height	Ground
CHG027	Transparent	5000 mL	181 mm	325 mm	45/40
CHG028	Transparent	10000 mL	227 mm	403 mm	60/46



▶ Flask ground top



Code	Glass	Capacity
CHG041	Amber	500 mL



▶ Glass flask, without cap



Code	Glass	Capacity
CHG043	White	500 mL
CHG044	Amber	500 mL
CHG045	Amber	1000 mL
CHG046	White	3000 mL



▶ CHJ - Narrow mouth, plastic

▶ Reagent bottles, PP



Code	Capacity	Diameter	Height	Neck
CHJ5 01	100 mL	55 mm	111 mm	NS 29/32
CHJ503	500 mL	87 mm	183 mm	NS 45/40
CHJ504	1000 mL	108 mm	214 mm	NS 60/46





CJC - Glass



Code	Glass	Capacity	Ø	RIN
CJC001	Transp.	50 mL	41,5 mm	14/15
CJC002	Amber	50 mL	41,5 mm	14/15
CJC005	Amber	250 mL	69 mm	19/26

*More capacities on demand.



CJF - Plastic

▶ Dropping bottles Ranvier type

**Kartell**

1 | PE pipe and rubber suction pump

Code	Cap.	Diameter	Height
CJF001	50 mL	35 mm	96 mm
CJF002	100 mL	43 mm	115 mm
CJF003	250 mL	60 mm	140 mm
CJF004	500 mL	75 mm	180 mm
CJF005	1000 mL	95 mm	220 mm

▶ Dispenser, PE

**Kartell**

1 | The transparent PMP dispenser can be moved along the tube.
2 | Once the desired level is reached, the pressure is reduced and the excess liquid returns to the bottle itself.

Code	Cap. bottle	Cap. dispenser
CJF006	250 mL	25 ml
CJF007	500 mL	25 ml
CJF008	1000 mL	25 ml
CJF009	250 mL	50 ml
CJF010	500 mL	50 ml
CJF011	1000 mL	50 ml

▶ Dispenser, HDPE-PP

**Kartell**

Code	Capacity	Diameter	Height
CJF012	500 mL	77 mm	229 mm



CJF- Plastic

▶ Dropping bottle, PE

1 | Narrow neck bottle, transparent, with dropper head and red PE-LD cap. Flexible with good resilience.

Code	Volume	Filetage GL	Height	Diameter
CJF501	30ml	GL14	96	34
CJF502	50ml	GL18	115	39
CJF503	100ml	GL18	136	45
CJF504	250ml	GL25	170	59
CJF505	500ml	GL25	209	75



▶ Dropping bottle PE-LD

1 | Extra long and fine tip for a very precise dosage. PE-LD bottle and PE-HD cap.

Code	Filetage GL	Volume	Height	Diameter
CJF506	18	50 ml	117 mm	37 mm
CJF507	18	100 ml	142 mm	43 mm
CJF508	25	250 ml	183 mm	58 mm
CJF509	25	500 ml	228 mm	74 mm
CJF510	32	1000 ml	269 mm	92 mm



CKB - Wide mouth

▶ Wash-bottle, with imprint, PE-LD

1 | With safety markings. Virtually no risk of liquid dripping or dripping thanks to the red sharp screw cap VENT-CAP, which almost completely prevents the build-up of static pressure. Bottle made of PE-LD or PP, tube made of PP. Complies with EC Regulation No. 1272 (2008/SGH), namely, marking of :

- chemical product in English, French, German, Spanish, French
- raw chemical formula, CAS number, hazard symbol, approval statement
- hazard statement (H-phrase), safety statement (P-phrase), NFPA code

Code	Material	Volume	Filetage GL	Impression	Diameter
CKB504	PE-LD	250 mL	GL45	Distilled water	12 mm
CKB505	PE-LD	250 mL	GL45	Methanol	12 mm
CKB506	PE-LD	250 mL	GL45	Isopropanol	12 mm
CKB507	PE-LD	250 mL	GL45	Ethyl acetate	12 mm
CKB508	PE-LD	250 mL	GL45	Ethanol	12 mm
CKB509	PE-LD	500 mL	GL45	Distilled water	12 mm
CKB510	PE-LD	500 mL	GL45	Methanol	12 mm
CKB511	PE-LD	500 mL	GL45	Propanol 2	12 mm
CKB512	PE-LD	500 mL	GL45	Acetate d'Ethyl	12 mm
CKB513	PE-LD	500 mL	GL45	Ethanol	12 mm
CKB514	PE-LD	500 mL	GL45	Imp. Dichloromethane	6 mm
CKB515	PE-LD	500 mL	GL45	Dimethylformamide	6 mm
CKB516	PE-LD	500 mL	GL45	Heptane	6 mm
CKB517	PE-LD	500 mL	GL45	Hexane	6 mm
CKB518	PE-LD	500 mL	GL45	THF	6 mm
CKB519	PE-LD	500 mL	GL45	Toluene	6 mm
CKB520	PE-LD	500 mL	GL45	Xylene	6 mm
CKB521	PE-LD	500 mL	GL45	Acetonitrile	6 mm
CKB522	PE-LD	500 mL	GL45	Acetic acid	6 mm
CKB523	PE-LD	1000 mL	GL63	Distilled water	12 mm
CKB524	PE-LD	1000 mL	GL63	Methanol	12 mm
CKB525	PE-LD	1000 mL	GL63	Propanol 2	12 mm
CKB526	PE-LD	1000 mL	GL63	Acetate d'Ethyl	12 mm
CKB527	PE-LD	1000 mL	GL63	Ethanol	12 mm
CKB529	PP	250 mL	GL45	Acetone	12 mm
CKB531	PP	500 mL	GL45	Methylethylcetone	6 mm
CKB532	PP	1000 mL	GL63	Acetone	12 mm





CKB - Wide mouth

▶ Wash-bottle, PP



1 | Precise jet and optimized liquid reflux thanks to the fine, stretched and smooth tip of the tube. All made of PP.

Code	Volume	Filetage GL	Height	Diameter
CKB534	250 ml	45	146 mm	58 mm
CKB536	500 ml	45	166 mm	76 mm
CKB538	1000 ml	63	226 mm	91 mm

▶ Wash-bottle, PE-LD/PP



1 | Narrow- / wide-mouth bottles made of PE-LD, transparent. Screw cap and spray tube from PP

Code	Volume	Filetage GL	Height	Diameter
CKB533	250 ml	45	146 mm	58 mm
CKB535	500 ml	45	166 mm	76 mm
CKB537	1000 ml	63	226 mm	91 mm

▶ Wash bottles graduated PE



1 | Graduates with colored Screw to identify the content.
2 | Distributor tube integrated in the Screw. DIN: GL45

Code	Cap.	Color	Grad.	Ø mouth
CKB001	250 mL	Neutral	25 mL	38 mm
CKB002	250 mL	Blue	25 mL	38 mm
CKB003	250 mL	Yellow	25 mL	38 mm
CKB004	250 mL	Red	25 mL	38 mm
CKB005	500 mL	Neutral	100 mL	38 mm
CKB006	500 mL	Blue	100 mL	38 mm
CKB007	500 mL	Yellow	100 mL	38 mm
CKB008	500 mL	Red	100 mL	38 mm

▶ Wash-bottle, with imprint, PE-LD



1 | Marking in French / English / German. .
2 | Precise jet and optimized liquid reflux thanks to the fine, stretched and smooth tip of the tube.

Code	Volume	Filetage GL	Height	Diameter
CKB502	500 ml	45	180 mm	74 mm
CKB503	1000 ml	63	166 mm	76 mm



▶ CKD - Narrow mouth

▶ Wash bottle, PE

Kartell

1 | Tube with removable tip.

Code	Capacity	Ø	Height
CKD001	50 mL	35 mm	96 mm
CKD002	100 mL	43 mm	115 mm
CKD003	250 mL	60 mm	140 mm
CKD004	500 mL	75 mm	180 mm
CKD005	1000 mL	95 mm	220 mm



▶ Wash bottle, PE

ENDO
plasticware

1 | Tube with removable tip.

Code	Capacity	Ø	Height
CKD006	100 mL	42 mm	218 mm
CKD007	250 mL	58 mm	213 mm
CKD008	500 mL	70 mm	218 mm
CKD009	1000 mL	90 mm	270 mm



▶ Wash bottle, PE

Kartell

1 | The liquid is released by a slight air pressure when blowing through the right straw.

Code	Capacity	Ø	Height
CKD010	250 mL	60 mm	140 mm
CKD011	500 mL	75 mm	180 mm
CKD012	1000 mL	95 mm	220 mm



▶ Wash bottles PFA, delivery tube FEP

Kartell

- 1 | Narrow neck with PTFA FEP output tube.
- 2 | ETFE screw thread
- 3 | Highly resistant to temperature and chemicals.
- 4 | Tube tip can be trimmed to increase flow

Code	Cap.	DIN	Ø	Height
CKD013*	250 mL	25	157 mm	61 mm
CKD014	500 mL	25	189 mm	71 mm



* This item is supplied on request.



▶ CKD - Narrow mouth

▶ Wash-bottle, colour coded, PE-LD



VITLAB

1 | Liquid exit obtained by a slight air pressure obtained by blowing into the straight stem.

Code	Color	Volume	Filetage GL	Height	Diameter
CKD504	Red	250 ml	25	135 mm	58 mm
CKD505	Greene	250 ml	25	180 mm	74 mm
CKD506	Yellow	250 ml	25	135 mm	58 mm
CKD507	Bluee	250 ml	25	180 mm	74 mm
CKD508	Red	500 ml	25	135 mm	58 mm
CKD509	Greene	500 ml	25	180 mm	74 mm
CKD510	Yellow	500 ml	25	135 mm	58 mm
CKD511	Bluee	500 ml	25	180 mm	74 mm
CKD555*	Set	500 ml	25	180 mm	74 mm
CKD556*	Set	1000 ml	32	221 mm	74 mm

* Set: red, green, yellow, blue (1 item each)

▶ Wash-bottle, with imprint, PE-LD



VITLAB

1 | Marking in French / English / German. Precise jet and optimized liquid reflux thanks to the fine, smooth, stretched tip of the tube. Other markings according to REACH per quantity on request.

Code	Volume	Filetage GL	Height	Diameter
CKD512	250 ml	25	135 mm	58 mm
CKD513	500 ml	25	180 mm	74 mm
CKD514	1000 ml	32	221 mm	92 mm

▶ Wash-bottle, with imprint, PE-LD



VITLAB

1 | Marking in French / English / German. Precise jet and optimized liquid reflux thanks to the fine, smooth, stretched tip of the tube. Other markings according to REACH per quantity on request.

Code	Volume	Filetage GL	Height	Diameter
CKD515	100 ml	18	106 mm	45 mm
CKD516	250ml	25	140 mm	59 mm
CKD517	500ml	25	180 mm	75 mm
CKD518	1000ml	28	212 mm	94 mm

▶ Wash-bottle, PE-LD/PP



VITLAB

1 | Unmarked. Precise jet and optimised liquid reflux thanks to the fine, smooth, stretched tip of the tube. Tube and cap made of PP. Bottle made of PE-LD.

Code	Volume	Filetage GL	Height	Diameter
CKD547	50 mL	18	73 mm	37 mm
CKD548	100 mL	18	95 mm	43 mm
CKD549	250 mL	25	135 mm	58 mm
CKD551	500 mL	25	180 mm	74 mm
CKD553	1000 mL	32	221 mm	92 mm



CKD - Narrow mouth

VITsafe safety wash-bottle, narrow-mouth, PE-LD



1 | With safety markings. Virtually no risk of liquid dripping or dripping thanks to the red sharp screw cap VENT-CAP, which almost completely prevents the build-up of static pressure. Bottle made of PE-LD or PP, tube made of PP. Complies with EC Regulation No. 1272 (2008/SGH), namely, marking of :

- chemical product in English, French, German, Spanish, French
- raw chemical formula, CAS number, hazard symbol, approval statement
- hazard statement (H-phrase), safety statement (P-phrase), NFPA code



Code	Volume	Material	Filetage GL	Impression	Diameter
CKD519	250 ml	PE-LD	GL25	Distilled water	58 mm
CKD520	250 ml	PE-LD	GL25	Methanol	58 mm
CKD521	250 ml	PE-LD	GL25	Propanol	58 mm
CKD522	250 ml	PE-LD	GL25	Ethil Acetate	58 mm
CKD523	250 ml	PE-LD	GL25	Ethanol	58 mm
CKD524	500 ml	PE-LD	GL25	Distilled water	74 mm
CKD525	500 ml	PE-LD	GL25	Methanol	74 mm
CKD526	500 ml	PE-LD	GL25	Isopropanol	74 mm
CKD527	500 ml	PE-LD	GL25	Ethyl acetate	74 mm
CKD528	500 ml	PE-LD	GL32	Ethanol	74 mm
CKD529	500 ml	PE-LD	GL25	Dichlorométhane	74 mm
CKD530	500 ml	PE-LD	GL25	N,N-Dimethylformamide	74 mm
CKD531	500 ml	PE-LD	GL25	Heptane	74 mm
CKD532	500 ml	PE-LD	GL25	Hexane	74 mm
CKD533	500 ml	PE-LD	GL25	Tétrahydrofurane (THF)	74 mm
CKD534	500 ml	PE-LD	GL25	Toluene	74 mm
CKD535	500 ml	PE-LD	GL25	Xylene	74 mm
CKD536	500 ml	PE-LD	GL25	Acetonitrile	74 mm
CKD537	500 ml	PE-LD	GL25	Acetic acid	74 mm
CKD538	1000 ml	PE-LD	GL32	Distilled water	92 mm
CKD539	1000 ml	PE-LD	GL32	Methanol	92 mm
CKD540	1000 ml	PE-LD	GL32	Propanol	92 mm
CKD541	1000 ml	PE-LD	GL32	Ethyl Acetate	92 mm
CKD542	1000 ml	PE-LD	GL32	Ethanol	92 mm
CKD543	250 ml	PP	GL25	Acetone	58 mm
CKD544	500 ml	PP	GL25	Acetone	58 mm
CKD545	500 ml	PP	GL25	Methyl Ethyl Ketone	58 mm

Wash-bottle, PP



1 | Precise jet and optimised liquid reflux thanks to the fine, stretched and smooth tip of the tube. All made of PP.

Code	Volume	GL	Height	Diameter
CKD550	250 ml	25	135 mm	58 mm
CKD552	500 ml	25	180 mm	74 mm
CKD554	1000 ml	32	215 mm	92 mm





CKG - Spray bottles

Spray bottle HDPE



Spray bottle PP



Kartell

Code	Cap.	Ø	Height	Ø mouth
CKG001	1.000 mL	90 mm	271 mm	22,5 mm

VITLAB

1 | White or transparent PP bottle. Spray head with effortlessly operable solid trigger and adjustable spray nozzle from very fine spraying (atomisation) to a precise jet by simply turning the nozzle. Spray radius approx. 3 to 4 m. Ideally suited for spraying cleaning agents or disinfectants as well as for thin layer chromatography applications.

Code	Material	Volume
CKG501	PP	400ml
CKG502	PE	850ml
CKG503	PP transparent	1000ml

CKJ - Integral model

Integral wash bottle, PE



Kartell

1 | With tube molded integrally to the bottle.

Code	Cap.	Diameter	Height
CKJ001	250 mL	32	140 mm
CKJ002	500 mL	32	178 mm

CKL - Stoppers

Wash bottle screw caps



Kartell

1 | For standardized narrow neck bottles.

Code	DIN
CKL001	18
CKL002	25
CKL003	32



CKL - Stoppers

Wash bottle screw caps

1 | For standardized narrow neck bottles.



Code	DIN
CKL004	18
CKL005	25
CKL006	28



Short spout dropping

1 | For standardized narrow neck bottles.



Code	Spout type	GL
CKL007	Short	18
CKL008	Short	25
CKL009	Long	18
CKL010	Long	25
CKL011	Long	28



PE short spout dropping cap



1 | They are used for standardized narrow neck vials. They have a polyethylene closing cap.

Code	GL	Spout length
CKL012	18	16 mm
CKL013	25	19 mm
CKL014	32	19 mm



Long spout



1 | They are used for standardized narrow neck vials. They have a polyethylene closing cap.

Code	GL	Spout length
CKL015	18	40 mm
CKL016	25	41 mm
CKL017	32	42 mm



Wash-bottle cap, PP



1 | Screw cap and tube with fine, stretched PP tip. Precise spraying and optimised reflux of the liquid thanks to the fine, smooth, stretched tip of the tube.

Code	GL
CKL501	GL25





CLB - With dispenser, glass

▶ With dispenser, glass



DIMENSIONS - Dispenser

d: width
h: height



Code	Ground	Capacity	Ø lid
CLB001	29/32	3 L	100 mm
CLB002	29/32	5 L	100 mm
CLB003	29/32	10 L	127 mm
CLB004	29/32	20 L	160 mm

▶ Accessories, irrigator



Code	Description
CLB005	Stopcock RIN 29/32
CLB006	Lid for irrigator 5L

CLD - With dispenser, plastic

▶ Round HDPE aspirator bottle

**Kartell**

- 1 | Very resistant drums with a 2 mm thick wall.
- 2 | Can be used at temperatures below 0 °C.
- 3 | Supplied with a 3/4" tap that attaches to the drum with a 12 mm deep thread. It is recommended to lubricate the thread with drops of Vaseline to ensure a better seal.

Code	Cap.	Ø int.	Ø ext.
CLD001	5 L	52,5 mm	62, 5 mm
CLD002	10 L	52,5 mm	62, 5 mm
CLD003	25 L	79,5 mm	95,5 mm
CLD004	50 L	79,5 mm	95,5 mm

▶ Tap for storage bottles

**Kartell**

- 1 | English type with 3/4" taps

Code	CLD005
------	--------



▶ CLD - With dispenser, plastic

▶ Round HDPE aspirator bottle

ENDO
plasticware

- Made of high-density polyethylene. They can be used at temperatures below zero °C.
- Supplied with a 3/4" tap that fits the drum with a 12 mm deep thread.

Code	Cap.	Ø int.	Height	Ø mouth
CLD013	5 L	167 mm	355 mm	51 mm
CLD014	10 L	212 mm	430 mm	51 mm
CLD015	25 L	275 mm	580 mm	80 mm
CLD016	50 L	350 mm	715 mm	80 mm



▶ Spigot for round bottle

ENDO
plasticware

- English type with 3/4" spigot

Code	CLD017
------	--------



▶ Tanks with spigot

Kartell

- Made of high-density polyethylene, they have a handle for transport.

Code	Capacity	Dimensions
CLD006	10 L	380x300x160 mm
CLD007	20 L	470x370x180 mm



▶ Spigot for tanks

Kartell

- Made of high-density polyethylene

Code	Ø threaded
CLD008	36,5 mm



▶ Rectangular tank with spigot

ENDO
plasticware

- Made of high-density polyethylene.

Code	Capacity	Dim. (LxAxH)	Ø mouth
CLD018	10 liters	28x14x34 mm	44 mm
CLD019	20 liters	32x18x45 mm	46 mm





CLD - With dispenser, plastic

▶ Bottle with spigot



- 1 | Made of high-density polyethylene.
- 2 | Can be used in temperatures below zero °C.
- 3 | Supplied without a tap.

Code	Capacity	Ø int.	Height	Ø mouth
CLD009	5 L	167 mm	355 mm	51 mm
CLD010	10 L	212 mm	430 mm	51 mm
CLD011	25 L	275 mm	580 mm	80 mm
CLD012	50 L	350 mm	715 mm	80 mm

▶ Bonbonne à col large



Code	Type	Volume	Filetage	Height	Ø col
CLD501	Col large	5 l	94 mm	340 mm	170 mm
CLD502	Col large	10 l	108 mm	415 mm	210 mm
CLD503	Col étroit	10 l	62,5 mm	425 mm	210 mm

▶ Container, PP



Code	Volume	Dimensions
CLD504	6 l	65 x 335 x 335 mm

▶ Storage bottles, PE-HD, with tap



Code	Volume	Mouth inner Ø mm	Height	Ø mm
CLD508	5 l	45 mm	330 mm	163 mm



CLG - Without dispenser, plastic

Storage bottles wide neck

Kartell

- 1 | They've got a lead under the screw.
- 2 | They have a strong handle for transport.

Code	Cap.	Ø int.	Ø ext.
CLG005	10 L	210 mm	415 mm



- 1 | They've got a lead under the screw.
- 2 | They have a strong handle for transport.

ENDO
plasticware

Code	Cap.	Ø	Height	Ø mouth
CLG009	5 liters	167 mm	350 mm	85 mm
CLG010	10 liters	210 mm	420 mm	100 mm



HPDE round bottle

Kartell

- 1 | Screw with O-ring that guarantees a watertight seal.
- 2 | They have a strong handle for transport.

Code	Cap.	Ø botella	Height
CLG001	5 L	170 mm	345 mm
CLG002	10 L	210 mm	425 mm
CLG003	25 L	280 mm	565 mm
CLG004	50 L	350 mm	700 mm



Industrial tanks

Kartell

- 1 | Made of high-density polyethylene.
- 2 | They have a resistant handle for transport and a safety closing screw according to DIN recommendations.
- 3 | They comply with the regulations for the transport of dangerous substances; ADR-RID (land), IMO-IMDG (sea) and IATA-ICAO (air).

Code	Cap.	GL	Dimensions
CLG006	2 L	45	175x155x115 mm
CLG007	5 L	51	250x195x150 mm
CLG008	20 L	51	370x295x245 mm



- 1 | Made of high density polyethylene. Neutral colour.
- 2 | Comply with regulations for the transport of dangerous substances; ADR-RID (land), IMO-IMDG (sea) and IATA-ICAO (air).

ENDO
plasticware

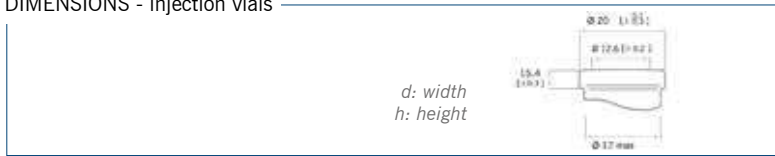
Code	Cap.	GL	Dimensions
CLG011	5 liters	51	163x187x236 mm
CLG012	10 liters	51	187x227x320 mm
CLG013	20 liters	51	236x288x380 mm





CMB - Injection

DIMENSIONS - injection vials



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Injection vial transparent



1 | Made of soda-lime glass type II, III. Complies with European and United States Pharmacopoeia.

Code	Glass	Capacity	Ø base
CMB001	Transparent	7 mL	22 mm
CMB002	Transparent	8 mL	23 mm
CMB003	Transparent	10 mL	25 mm
CMB004	Transparent	15 mL	26.5 mm
CMB005	Transparent	20 mL	32 mm
CMB006	Transparent	30 mL	36 mm
CMB007	Transparent	50 mL	42.5 mm
CMB008	Transparent	100 mL	51.6 mm
CMB009	Amber	10 mL	25 mm
CMB010	Amber	20 mL	32 mm
CMB011	Amber	30 mL	36 mm
CMB012	Amber	50 mL	42.5 mm
CMB013	Amber	100 mL	51.6 mm

Injection vial



1 | Made of type I borosilicate glass. Complies with European and United States Pharmacopoeia.

Code	Glass	Capacity	Ø base	DN
CMB014	Transparent	2 mL	16 mm	13
CMB015	Transparent	4 mL	16 mm	13
CMB016	Transparent	6 mL	22 mm	20
CMB017	Transparent	8 mL	22 mm	20
CMB018	Transparent	10 mL	24 mm	20
CMB019	Transparent	12 mL	24 mm	20
CMB020	Transparent	15 mL	24 mm	20
CMB021	Transparent	20 mL	30 mm	20
CMB022	Transparent	30 mL	30 mm	20

CMD - For pills

Amber glass pillbox



1 | Made of soda-lime glass type II, III.
2 | Complies with European and United States Pharmacopoeia.

Code	Glass	Capacity	Ø mouth
CMD001	Amber	18 mL	30 mm

Cap for pillbox



Code	Diameter
CMD014	30 mm



▶ CML - Closures for vials

▶ Rubber closure for injection



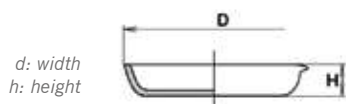
Code	Description
CML010	Rubber closure for injection vial
CML011	Injection vial cap
CML012	Flip-off lid for injection vial



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▶ CNB - Capsules, flat, porcelain

DIMENSIONS - flat form



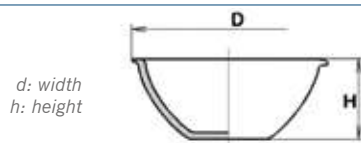
▶ Evaporation flat bottom

1 | With a spout. Enamelled inside and outside except for the base.

Code	Cap.	d.	h.
CNB001	10 mL	50 mm	10 mm
CNB002	20 mL	60 mm	14 mm
CNB003	28 mL	75 mm	15 mm
CNB004	55 mL	80 mm	20 mm
CNB005	110 mL	100 mm	25 mm
CNB006	250 mL	130 mm	30 mm
CNB007	450 mL	160 mm	40 mm
CNB008	1100 mL	200 mm	55 mm
CNB009	1750 mL	250 mm	55 mm



DIMENSIONS - Flat bottom



▶ Evaporation dish flat bottom



1 | With a spout. Enamelled inside and outside except for the base.

Code	Cap.	d.	h.
CNB010	22 mL	54 mm	22 mm
CNB011	62 mL	70 mm	30 mm
CNB012	93 mL	86 mm	33 mm
CNB013	154 mL	98 mm	40 mm
CNB014	265 mL	112 mm	50 mm
CNB015	330 mL	126 mm	53 mm
CNB016	450 mL	145 mm	55 mm
CNB017	620 mL	151 mm	63 mm
CNB018	800 mL	169 mm	68 mm
CNB019	1000 mL	195 mm	74 mm
CNB020	25000 mL	254 mm	105 mm





CNB - Capsules, flat, porcelain

▶ Evaporating dish flat bottom with spout



Code	Diameter	Height	Volume
CNB501	27 mm	12 mm	5 ml
CNB502	40 mm	12 mm	10 ml
CNB503	50 mm	25 mm	15 ml
CNB504	55 mm	26 mm	20 ml
CNB505	60 mm	30 mm	40 ml
CNB506	70 mm	28 mm	50 ml
CNB507	84 mm	33 mm	100 ml
CNB508	90 mm	36 mm	125 ml
CNB509	97 mm	37 mm	150 ml
CNB510	110 mm	42 mm	200 ml
CNB511	125 mm	50 mm	250 ml
CNB512	140 mm	51 mm	400 mL
CNB513	167 mm	64 mm	650 ml
CNB514	195 mm	77 mm	1000 ml
CNB515	223 mm	90 mm	1500 ml
CNB516	250 mm	110 mm	2000 ml
CNB517	280 mm	114 mm	3000 mL
CNB518	305 mm	120 mm	5000 ml
CNB519	335 mm	140 mm	8 L
CNB520	360 mm	155 mm	10 L
CNB521	390 mm	180 mm	12 L
CNB522	410 mm	195 mm	15 L
CNB523	440 mm	210 mm	20 L

▶ Evaporating basin, flat form



Code	Diameter	Height	Volume
CNB524	70 mm	11 mm	40 mL
CNB525	84 mm	16 mm	75 mL
CNB526	125 mm	28 mm	200 mL

▶ Rectangular dish



Code	Lenght	Width	Height	Volume
CNB527	55 mm	35 mm	10 mm	10 mL



▶ CNB - Capsules, fond plat, porcelaine

▶ Annealing dish flat bottom



Code	Diameter	Height	Volume
CNB528	50 mm	12 mm	10 ml
CNB529	60 mm	12 mm	20 ml
CNB530	70 mm	14 mm	30 ml
CNB531	80 mm	20 mm	50 ml
CNB532	95 mm	26mm	100 ml
CNB533	105 mm	28 mm	150 ml
CNB534	120 mm	35 mm	200 ml
CNB535	140 mm	40 mm	400 ml
CNB536	160 mm	47 mm	600 ml
CNB537	200 mm	55 mm	950 ml
CNB538	250 mm	70 mm	2000 ml
CNB539	280 mm	80 mm	3000 ml

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▶ Evaporating basin low form



Code	Diameter	Height	Volume
CNB540	70 mm	28 mm	40 mL
CNB541	150 mm		
CNB542	250 mm		
CNB543	150 mm	58 mm	500 ml



▶ CNC - Capsules, flat, glass



DIMENSIONS - Evaporation dish flat bottom

d: width
h: height



Code	Cap.	d1.	d2.	h.
CNC001	15mL	50 mm	25 mm	25 mm
CNC002	45mL	60 mm	30 mm	30 mm
CNC003	90mL	80 mm	35 mm	45 mm
CNC004	170mL	95 mm	40 mm	55 mm
CNC005	320mL	115 mm	50 mm	65 mm
CNC006	600mL	140 mm	60 mm	80 mm



▶ CND - Capsules, flat, metal



Code	Handle	Cap.	Diameter	Height
CND001	No	60 mL	60 mm	30 mm
CND002	No	100 mL	80 mm	40 mm
CND003	No	250 mL	100 mm	50 mm
CND004	No	500 mL	120 mm	60 mm
CND005	No	1000 mL	160 mm	80 mm
CND006	No	2000 mL	200 mm	100 mm
CND007	No	5000 mL	250 mm	120 mm
CND008	Yes	500 mL	250 mm	120 mm
CND009	Yes	1000 mL	160 mm	80 mm
CND010	Yes	2000 mL	200 mm	100 mm
CND011	Yes	4500 mL	120 mm	250 mm





▶ CND - Capsules, flat, metal

▶ Basin flat bottom



Code	Volume	Diameter	Height
CND501	40 ml	60 mm	25 mm
CND502	60 ml	70 mm	25 mm
CND503	90 ml	80 mm	30 mm
CND504	180 ml	100 mm	35 mm

▶ Basin flat bottom



Code	Volume	Diameter	Height
CND505	40 ml	60 mm	25 mm
CND506	60 ml	70 mm	25 mm
CND507	90 ml	80 mm	30 mm
CND508	180 ml	100 mm	35 mm

▶ CNF - Capsules, flat, PTFE

▶ Capsules PTFE

**Kartell**

1 | Exceptional chemical, mechanical and heat resistance (withstands temperatures up to + 250 °C and in short periods up to +300 °C)

Code	Cap.	Ø	Height
CNF001	25 mL	42 mm	25 mm
CNF002	100 mL	80 mm	28 mm

▶ Capsules PTFE

**ENDO**
plasticware

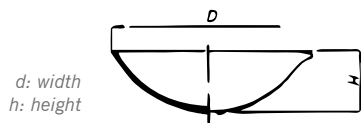
1 | Made of PTFE. Exceptional chemical, mechanical and heat resistance

Code	Cap.	Ø Exterior	Height
CNF003	50 mL	61 mm	45 mm
CNF004	100 mL	65 mm	45 mm
CNF005	150 mL	70 mm	50 mm



▶ CNG - Capsules, round, porcelain

DIMENSIONS - Capsules, round bottom



▶ Evaporating dish



1 | With a spout. Enamelled inside and outside except for the base.

Code	Cap.	d.	h.
CNG001	15 mL	47 mm	20 mm
CNG002	35 mL	60 mm	25 mm
CNG003	50 mL	70 mm	28 mm
CNG004	60 mL	74 mm	30 mm
CNG005	75 mL	82 mm	32 mm
CNG006	100 mL	90 mm	35 mm
CNG007	125 mL	98 mm	38 mm
CNG008	140 mL	100 mm	39 mm
CNG009	150 mL	104 mm	40 mm
CNG010	200 mL	110 mm	44 mm
CNG011	270 mL	120 mm	49 mm
CNG012	300 mL	126 mm	52 mm
CNG013	400 mL	150 mm	58 mm
CNG014	1000 mL	206 mm	64 mm



▶ Evaporation dish deep round bottom



1 | With a spout. Enamelled inside and outside except for the base.

Code	Cap.	d.	h.
CNG015	10 mL	40 mm	16 mm
CNG016	20 mL	50 mm	20 mm
CNG017	30 mL	63 mm	25 mm
CNG018	60 mL	80 mm	32 mm
CNG019	107 mL	81 mm	38 mm
CNG020	140 mL	94 mm	42 mm
CNG021	150 mL	100 mm	40 mm
CNG022	232 mL	112 mm	47 mm
CNG023	285 mL	125 mm	50 mm
CNG024	300 mL	132 mm	55 mm
CNG025	400 mL	138 mm	61 mm
CNG026	580 mL	160 mm	64 mm
CNG027	700 mL	170 mm	74 mm
CNG041	1000 mL	200 mm	80 mm
CNG028	1300 mL	202 mm	86 mm
CNG029	6000 mL	320 mm	140 mm



1 | With a spout. Enamelled inside and outside except for the base.



Code	Capacity	Dim.	Height
CNG030	41 mL	72 mm	26 mm
CNG031	62 mL	83 mm	27 mm
CNG032	110 mL	96 mm	30 mm
CNG033	160 mL	110 mm	37 mm
CNG034	215 mL	117 mm	41 mm
CNG035	240 mL	127 mm	42 mm
CNG036	325 mL	142 mm	46 mm
CNG037	420 mL	154 mm	50 mm
CNG038	558 mL	170 mm	55 mm





▶ CNG - Capsules, round, porcelain

▶ Basin

**COMECTA**

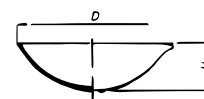
1 | Made of PTFE. Exceptional chemical, mechanical and heat resistance

Code	Cap.	ø Exterior	Height
CNG501	35 mL	60 mm	25 mm
CNG502	60 mL	74 mm	30 mm
CNG503	100 mL	90 mm	35 mm
CNG504	300 mL	126 mm	52 mm
CNG505	500 mL	168 mm	58 mm

▶ CNH - Capsules, round, glass



DIMENSIONS - Round bottom, glass

d: width
h: height

Code	Cap.	d.	h.
CNH001	35 mL	64 mm	29 mm
CNH002	90 mL	85 mm	39 mm
CNH003	180 mL	105 mm	49 mm

▶ CNJ - Capsules, round, metal



Code	Material	Volume	Diameter	Height
CNJ501	Stainless steel	35 ml	60 mm	25 mm
CNJ502	Stainless steel	50 ml	70 mm	25 mm
CNJ503	Stainless steel	75 ml	80 mm	30 mm
CNJ504	Stainless steel	125 ml	100 ml	35 mm
CNJ505	Nickel	125 ml	100 ml	35 mm
CNJ506	Nickel	125 ml	100 ml	35 mm

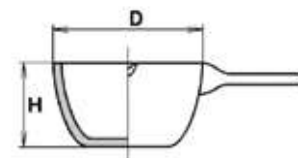
▶ CNK - Capsules with handle, porcelain



▶ Flat bottom



DIMENSIONS - With handle, flat bottom

d: width
h: height

1 | With a spout. Enamelled interior and exterior except base.

Code	Cap.	d.	h.
CNK001	30 mL	50 mm	30 mm
CNK002	70 mL	66 mm	39 mm
CNK003	150 mL	90 mm	48 mm
CNK004	200 mL	96 mm	52 mm
CNK005	250 mL	108 mm	60 mm
CNK006	500 mL	132 mm	70 mm



▶ CNK - Capsules with handle, porcelain

▶ Evaporation dish with handle



1 | With a spout. Enameled interior and exterior except base.

Code	Cap.	d.	h.
CNK007	22 mL	45 mm	26 mm
CNK008	84 mL	67 mm	39 mm
CNK009	176 mL	85 mm	49 mm
CNK010	270 mL	101 mm	51 mm
CNK011	450 mL	120 mm	64 mm
CNK012	960 mL	150 mm	86 mm



▶ Casserole with wood handle



DIMENSIONS - Wood handle and lid



1 | With a beak and a lead. Enameled interior and exterior except the base.

Code	Type	Cap.	d.	h.
CNK013	Casserole	125 mL	75 mm	40 mm
CNK014	Casserole	200 mL	85 mm	45 mm
CNK015	Lid	-	87 mm	30 mm
CNK016	Lid	-	100 mm	34 mm



▶ Basin with handel



1 | With a spout. Enameled interior and exterior except base.

Code	Cap.	Height.	Ø superior	Ø inferior
CNK501	50 mL	34 mm	60 mm	36 mm
CNK502	100 mL	45 mm	80 mm	52 mm
CNK503	200 mL	52 mm	96 mm	56 mm
CNK504	300 mL	62 mm	110 mm	66 mm
CNK505	500 mL	70 mm	132 mm	80 mm



▶ CNL - Evap. dishes with spout, glass



DIMENSIONS - Crystallizing dish with spout



▶ Crystallizing dish with spout

Code	Cap.	d.	h.
CNL001	40mL	50mm	30mm
CNL002	60mL	60mm	35mm
CNL003	100mL	70mm	40mm
CNL004	150mL	80mm	45mm
CNL005	250mL	100mm	50mm
CNL006	500mL	120mm	65mm
CNL007	1000mL	150mm	75mm
CNL008	1500mL	180mm	90mm
CNL009	3500mL	230mm	100mm



BORO
3.3



▶ CNL - Evap. dishes with spout, glass

▶ Crystallising dish with spout



1 | DIN 12 338.

BORO
3.3

Code	Capacity	Dim.	Height
CNL010	15 mL	40 mm	25 mm
CNL011	20 mL	50 mm	30 mm
CNL012	40 mL	60 mm	35 mm
CNL013	50 mL	70 mm	40 mm
CNL014	90 mL	80 mm	45 mm
CNL015	200 mL	95 mm	55 mm
CNL016	380 mL	115 mm	65 mm
CNL017	650 mL	140 mm	75 mm
CNL018	1600 mL	190 mm	90 mm
CNL019	2700 mL	230 mm	100 mm

▶ CNM - Evap. dishes with spout, PTFE

▶ Crystalization vessels PTFE

Kartell

- 1 | Temperature of use -270 °C to +250 °C
- 2 | Resistant to acids and very aggressive mixtures.



APTO

Code	Cap.	d.	h.
CNM001	25 mL	38 mm	35,64 mm
CNM002	100 mL	64 mm	54,48 mm
CNM003	350 mL	100 mm	62,22 mm

▶ CNN - Evap. dishes without spout, glass

▶ Crystallizing dish with rim



1 | Temperature of use -270 °C to +250 °C. Resistant to acids and very aggressive mixtures.



Code	Cap.	d.	h.
CNN001	150 mL	80 mm	40 mm
CNN002	300 mL	100 mm	55 mm
CNN003	500 mL	120 mm	60 mm
CNN004	1000 mL	150 mm	70 mm
CNN005	1500 mL	190 mm	90 mm
CNN027	5000 mL	275 mm	123 mm
CNN028	9000 mL	300 mm	153 mm

▶ Crystallising dish without spout



1 | DIN 12337.

BORO
3.3

Code	Cap.	d.	h.
CNN006	15 mL	40 mm	25 mm
CNN007	20 mL	50 mm	30 mm
CNN008	40 mL	60 mm	35 mm
CNN009	50 mL	70 mm	40 mm
CNN010	90 mL	80 mm	45 mm
CNN011	200 mL	95 mm	55 mm
CNN012	380 mL	115 mm	65 mm
CNN013	650 mL	140 mm	75 mm
CNN014	1600 mL	190 mm	90 mm
CNN015	2700 mL	230 mm	100 mm



▶ **CNP - Evap. dishes without spout, inox**

▶ Crystallizing dish with out spout



Code	Cap.	d.	h.	Type
CNP001*	50mL	60 mm	20 mm	Low form
CNP002*	100mL	80 mm	20 mm	Low form
CNP003*	250mL	85 mm	45 mm	Tall form
CNP004*	500mL	110 mm	55 mm	Tall form
CNP005*	1000mL	140 mm	70 mm	Tall form
CNP006*	2000mL	160 mm	105 mm	Tall form

* This item is supplied on request.



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▶ **CNQ - Evap. dishes without spout, PFA**

▶ Evaporating dishes PFA



Code	Cap.	d.	h.
CNQ001*	25 mL	50 mm	25 mm
CNQ002*	50 mL	50 mm	54 mm

* This item is supplied on request.



▶ Evaporating dish, PFA

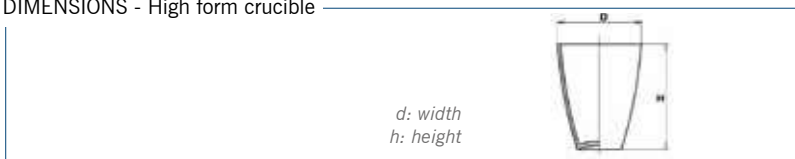


Code	Cap.	d.	h.
CNQ501	25 mL	50 mm	25 mm



▶ **CPB - Crucibles, tall form, porcelain**

DIMENSIONS - High form crucible



▶ High form crucible



1 | With lid. Enamelled interior and exterior except for the edge and base.

Code	Cap.	d.	h.
CPB001	15 mL	32 mm	34 mm
CPB002	18 mL	34 mm	36 mm
CPB004	20 mL	36 mm	38 mm
CPB005	25 mL	38 mm	40 mm
CPB006	30 mL	40 mm	46 mm
CPB007	40 mL	42 mm	54 mm
CPB008	50 mL	43 mm	58 mm
CPB009	100 mL	70 mm	76 mm





CPB - Crucibles, tall form, porcelain

▶ Crucible high form



1 | Enameled interior and exterior except for the edge and base.

Code	d.	h.	Capacity
CPB010	30 mm	38 mm	15 mL
CPB011	35 mm	44 mm	26 mL
CPB012	40 mm	50 mm	35 mL
CPB013	45 mm	56 mm	50 mL
CPB014	50 mm	62 mm	72 mL
CPB015	60 mm	75 mm	120 mL



1 | Enameled interior and exterior except for the edge and base.

Code	Diameter	Height	Volume
CPB501	18 mm	20 mm	2 mL
CPB502	25 mm	28 mm	6 ml
CPB503	30 mm	33 mm	14 ml
CPB504	35 mm	40 mm	17 ml
CPB505	40 mm	45 mm	30 ml
CPB506	45 mm	51 mm	40 ml
CPB507	55 mm	63 mm	80 ml
CPB508	63 mm	76 mm	120 ml
CPB509	70 mm	80 mm	140 ml
CPB510	52 mm	90 mm	
CPB511	80 mm	91mm	250 ml
CPB512	90 mm	104 mm	390 ml
CPB513	102mm	120 mm	550 ml
CPB514	115 mm	136 mm	800 ml
CPB515	128 mm	152 mm	1000 ml
CPB516	174 mm	200 mm	500 ml

▶ Lid for crucible HF

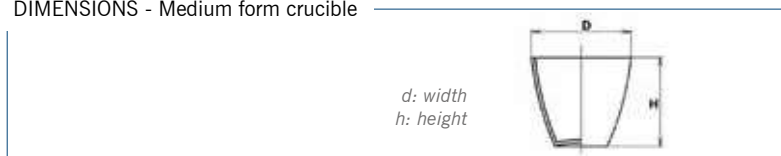


Code	Inner diameter	Outer diameter
CPB517	25 mm	28 mm
CPB518	30 mm	33 mm
CPB519	35 mm	40 mm
CPB520	40 mm	45 mm
CPB521	45 mm	51 mm
CPB522	55 mm	63 mm
CPB523	63 mm	76 mm
CPB524	70 mm	80 mm
CPB525	80 mm	91 mm
CPB526	90 mm	104 mm



▶ CPC - Crucibles, medium form, porcelain

DIMENSIONS - Medium form crucible



▶ Medium form crucible



1 | With lid. Enameled interior and exterior except for the edge and base.

Code	Capacity	Dim.	Height
CPC001	5 mL	25 mm	21 mm
CPC002	10 mL	30 mm	28 mm
CPC003	15 mL	35 mm	30 mm
CPC004	25 mL	40 mm	36 mm
CPC005	30 mL	42 mm	41 mm
CPC006	40 mL	48 mm	42 mm
CPC007	50 mL	53 mm	46 mm
CPC008	70 mL	56 mm	56 mm
CPC009	100 mL	63 mm	59 mm
CPC010	300 mL	90 mm	78 mm



▶ Combustion crucible



1 | Without lid, enameled interior and exterior except for the edge and base.

Code	d.	h.	Cap.
CPC011	30 mm	25 mm	10 mL
CPC012	35 mm	28 mm	12 mL
CPC013	40 mm	32 mm	20 mL
CPC014	45 mm	36 mm	30 mL
CPC015	50 mm	40 mm	45 mL
CPC016	60 mm	48 mm	80 mL
CPC017	70 mm	56 mm	120 mL

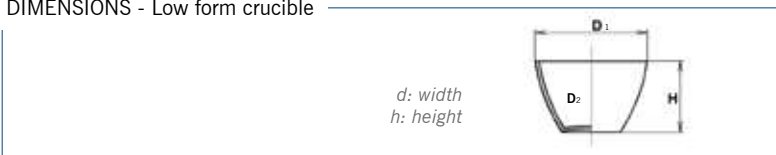


▶ CPD - Crucibles, low form, porcelain

▶ Low form crucible



DIMENSIONS - Low form crucible



1 | With lid. Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.
CPD001	15 mL	43 mm	23 mm
CPD002	25 mL	47 mm	227 mm
CPD003	30 mL	51 mm	230 mm
CPD004	50 mL	59 mm	238 mm





CPD - Crucibles, low form, porcelain

▶ Crucible low form



1 | Without lid. Enamelled interior and exterior except for the edge and base.

Code	Cap.	d.	h.
CPD005	5 mL	30 mm	19 mm
CPD006	10 mL	35 mm	22 mm
CPD007	17 mL	40 mm	25 mm
CPD008	21 mL	45 mm	28 mm
CPD009	34 mL	50 mm	32 mm
CPD010	62 mL	60 mm	38 mm
CPD011	91 mL	70 mm	44 mm

▶ Crucible for high frequency furnace



1 | Unglazed. Temperatures up to 1350 °C

Code	d2.	h.	d1.
CPD012	19 mm	26 mm	25 mm

▶ Glazed crucible low form (without lid)



Code	Diameter	Height	Volume
CPD501	25 mm	18 mm	3 ml
CPD503	33 mm	21 mm	6 ml
CPD504	38 mm	24 mm	14 ml
CPD505	45 mm	29 mm	25 ml
CPD506	55 mm	36 mm	40 ml
CPD507	68 mm	45 mm	80 ml
CPD508	80 mm	50 mm	130 ml
CPD509	90 mm	72 mm	250 ml

▶ Cover for crucible diameter



Code	Inner diameter	Outer diameter
CPD510	18 mm	25 mm
CPD511	21 mm	30 mm
CPD512	21 mm	33 mm
CPD513	24 mm	38 mm
CPD514	29 mm	45 mm
CPD515	36 mm	55 mm
CPD516	45 mm	68 mm
CPD517	50 mm	80 mm
CPD518	72 mm	90 mm



▶ CPF - Crucibles, lids, porcelain

▶ Beehive shelf



1 | Enameled except for the edge.

Code	Diameter
CPF001	75 mm
CPF002	100 mm

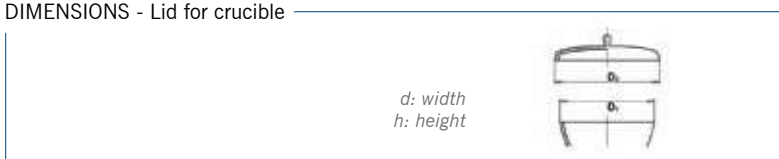


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▶ Lid for crucible



DIMENSIONS - Lid for crucible



1 | Enameled interior and exterior.

Code	d1.	d2.
CPF003	30 mm	34 mm
CPF004	35 mm	39 mm
CPF005	40 mm	44 mm
CPF006	45 mm	49 mm
CPF007	50 mm	54 mm
CPF008	60 mm	64 mm
CPF009	70 mm	74 mm
CPF010	80 mm	84 mm

▶ Porcelain saucer glazed



Code	Dimensions
CPF011	115/125 mm



▶ Crucible shelf



1 | Unglazed. With 6 holes of different diameters: 2 of 50 mm, 2 of 40 mm and 2 of 25 mm

Code	Length	Height	Width
CPF012	160 mm	100 mm	40 mm



▶ Glazed saucer



Code	Diameter	Height
CPF501	120 mm	23 mm
CPF503	160 mm	-



CPF - Crucibles, lids, porcelain



Beehive shelf for gas



Code	Diameter
CPF504	50 mm
CPF505	55 mm
CPF506	60 mm
CPF509	97 mm



Roasting crucible unglazed



Code	Diameter
CPF511	50 mm
CPF512	55 mm
CPF513	60 mm
CPF515	97 mm



CPG - Crucibles, fireclay



Combustion crucible fireclay



Code	Cap.	Diameter	Height
CPG003*	3 mL	29 mm	25 mm

* This item is supplied on request.



Crucible made of fireclay



Code	Cap.	Diameter	Height
CPG004*	20 mL	33 mm	55 mm
CPG005*	35 mL	36 mm	60 mm
CPG006*	35 mL	42 mm	70 mm
CPG007*	75 mL	50 mm	90 mm
CPG008*	90 mL	55 mm	100 mm
CPG009*	110 mL	62 mm	110 mm
CPG010*	180 mL	68 mm	120 mm
CPG011*	360 mL	80 mm	150 mm

* This item is supplied on request.



▶ CPG - Crucibles, fireclay

▶ Beehive shelf for gas fireclay



Code	Diameter	Height
CPG012*	60 mm	37 mm
CPG013*	80 mm	45 mm

* This item is supplied on request.



▶ Crucible made of fireclay



Code	Cap.	Diameter	Height
CPG014*	40 mL	55 mm	28 mm
CPG015*	30 mL	50 mm	28 mm
CPG016*	40 mL	60 mm	29 mm
CPG021	75 mL	80 mm	45 mm
CPG017*	120 mL	80 mm	41 mm
CPG022	200 mL	-	-
CPG018*	250 mL	100 mm	51 mm

* This item is supplied on request.



▶ CPJ - Crucibles, PTFE

▶ Crucible PTFE



1 | Enamelled interior and exterior except for the edge and base

Code	Cap.	ø superior	ø inferior
CPJ001	30 mL	48 mm	32 mm
CPJ002	50 mL	53 mm	36 mm
CPJ003	100 mL	59 mm	42 mm
CPJ004	250 mL	78 mm	54 mm



▶ Quartz glass for incineration



Code	Cap.	ø Diameter	Height
CPJ501	15 mL	25 mm	38 mm
CPJ502	15 mL	27 mm	45 mm
CPJ503	24 mL	35 mm	44 mm
CPJ505	40 mL	40 mm	50 mm
CPJ506	49 mL	50 mm	40 mm
CPJ507	75 mL	50 mm	62 mm
CPJ508	90 mL	60 mm	48 mm



▶ CPH - Crucibles, metal

▶ Platinum crucibles



1 | Platinum crucibles and accessories for X-ray fluorescence analysis ,combustion and evaporation (resistant to high temperatures and chemical attack by acids)



Code	ø upper	Height	Weight	Thickness	Cap.
CPH001	25,0 mm	31,0 mm	10 g	0,23 mm	10 mL
CPH002	29,5 mm	32,5 mm	12 g	0,23 mm	15 mL
CPH003	30,0 mm	31,5 mm	20 g	0,28 mm	15 mL
CPH004	32,5 mm	35,5 mm	18 g	0,29 mm	20 mL
CPH005	35,0 mm	40,0 mm	30 g	0,39 mm	25 mL
CPH006	35,0 mm	38,0 mm	19 g	0,25 mm	25 mL
CPH007	36,0 mm	40,0 mm	27 g	0,33 mm	25 mL
CPH008	37,5 mm	41,5 mm	23 g	0,28 mm	30 mL
CPH009	39,0 mm	43,0 mm	28 g	0,27 mm	35 mL
CPH010	40,0 mm	43,0 mm	29 g	0,27 mm	35 mL
CPH011	41,5 mm	45,5 mm	31 g	0,30 mm	40 mL
CPH012	44,0 mm	48,5 mm	42 g	0,37 mm	50 mL
CPH013	47,0 mm	46,0 mm	45 g	0,38 mm	55 mL
CPH014	50,0 mm	55,0 mm	55 g	0,42 mm	75 mL
CPH015	56,0 mm	62,0 mm	78 g	0,49 mm	100 mL

▶ Quartz Crucible without lid

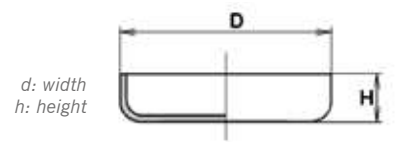


1 | Tolerance up to 2.000 °C

Code	Capacity	Type
CPH016	15 mL	Without lid
CPH017	25 mL	Without lid
CPH018	50 mL	Without lid
CPH019	100 mL	Without lid
CPH020	15 mL	With lid
CPH021	25 mL	With lid
CPH022	50 mL	With lid
CPH023	100 mL	With lid

▶ CPK - Incineration capsules

DIMENSIONS - Annealing dish



▶ Annealing dish



1 | Enameled interior and exterior except for the edge and base



Code	Cap.	d.	h.
CPK001	8 mL	30 mm	15 mm
CPK002	21 mL	40 mm	20 mm
CPK003	35 mL	50 mm	25 mm
CPK004	64 mL	60 mm	30 mm
CPK005	103 mL	70 mm	35 mm



CPK - Incineration capsules

Low form without spout



1 | Enameled interior and exterior except for the edge and base.

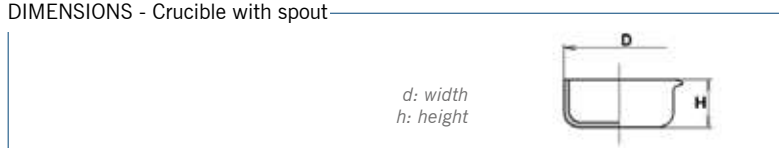
Code	Cap.	d.	h.
CPK006	7 mL	38 mm	10 mm
CPK007	9 mL	44 mm	11 mm
CPK008	12 mL	47 mm	13 mm
CPK009	70 mL	81 mm	20 mm
CPK010	220mL	122mm	28 mm



High form with spout



DIMENSIONS - Crucible with spout



1 | Enameled interior and exterior except for the edge and base.

Code	Cap.	d.	h.
CPK011	8 mL	30 mm	15 mm
CPK012	21mL	40 mm	20 mm
CPK013	35 mL	50 mm	25 mm
CPK014	64 mL	60 mm	30 mm
CPK015	103 mL	70 mm	35 mm



Platinum crucibles with spout



1 | Platinum crucibles and accessories for X-ray fluorescence analysis ,combustion and evaporation (resistant to high temperatures and chemical attack by acids).

Code	ø superior	Height	Weight	Thickness	Cap.
CPK016	38,0 mm	19,0 mm	10,0 g	0,21 mm	15 mL
CPK017	40,0 mm	20,0 mm	12,0 g	0,20 mm	20 mL
CPK018	42,0 mm	20,0 mm	12,5 g	0,20 mm	20 mL
CPK019	50,0 mm	22,0 mm	15,5 g	0,18 mm	30 mL
CPK020	55,0 mm	22,0 mm	16,0 g	0,19 mm	30 mL
CPK021	60,0 mm	22,0 mm	19,0 g	0,17 mm	35 mL
CPK022	62,5 mm	27,0 mm	23,5 g	0,18 mm	60 mL
CPK023	70,0 mm	28,0 mm	28,0 g	0,18 mm	80 mL
CPK024	75,0 mm	29,0 mm	37,0 g	0,20 mm	100 mL
CPK025	80,0 mm	31,0 mm	39,0 g	0,22 mm	125 mL
CPK026	82,5 mm	31,0 mm	52,0 g	0,20 mm	150 mL
CPK027	90,0 mm	38,0 mm	62,0 g	0,25 mm	175 mL
CPK028	100,0 mm	35,0 mm	75,0 g	0,25 mm	200 mL
CPK029	115,0 mm	30,0 mm	100,0 g	0,25 mm	210 mL
CPK030	130,0 mm	25,0 mm	170,0 g	0,44 mm	220 mL



Platinum crucibles without spout



1 | Platinum crucibles and accessories for X-ray fluorescence analysis ,combustion and evaporation (resistant to high temperatures and chemical attack by acids).

Code	Above	Height	Weight	Thickness	Cap.
CPK031	50,0 mm	50,0 mm	100 g	0,45 mm	75 mL
CPK032	70,0 mm	20,0 mm	30 g	0,35 mm	75 mL
CPK033	75,0 mm	50,0 mm	50,0 g	0,24 mm	150 mL
CPK034	80,0 mm	25,0 mm	68,0 g	0,30 mm	120 mL
CPK035	85,0 mm	40,0 mm	75,0 g	0,28 mm	150 mL
CPK036	90,0 mm	30,0 mm	75,0 g	0,28 mm	130 mL





CPK - Incineration capsules

▶ Spherical annealing dish without spout



Code	Diameter	Height	Volume
CPK501	40 mm	16 mm	8 ml
CPK502	50 mm	19 mm	22 ml
CPK503	60 mm	22 mm	40 ml
CPK504	70 mm	24 mm	52 ml

▶ Truncated dish, without spout



Code	Diameter	Height	Volume
CPK505	30 mm	15 mm	4 ml
CPK506	40 mm	22 mm	15 ml
CPK507	50 mm	30 mm	30 ml
CPK509	70 mm	42 mm	90 ml



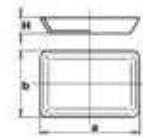
CPL - Incineration trays

▶ Incineration tray



DIMENSIONS - Incineration tray

d: width
h: height



1 | Enameled interior and exterior except for the edge and base.

Code	a.	b.	h.
CPL001	50 mm	28 mm	15 mm
CPL002	75 mm	35 mm	15 mm
CPL003	80 mm	40 mm	17 mm
CPL004	120 mm	65 mm	18 mm



1 | Enameled interior and exterior except for the edge and base.

Code	a.	b.	h.	Cap.
CPL005	50 mm	35 mm	12 mm	6 mL
CPL006	60 mm	40 mm	12 mm	13 mL
CPL007	74 mm	49 mm	14 mm	28 mL
CPL008	95 mm	65 mm	14 mm	40 mL



▶ CPL - Incineration trays

▶ Annealing dish square, glazed

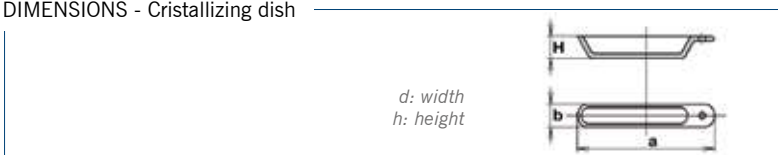


Code	Length	Width	Height
CPL501	45 mm	25 mm	10 mm
CPL502	55 mm	25 mm	10 mm
CPL503	62 mm	35 mm	12 mm
CPL504	75 mm	55 mm	12 mm
CPL505	110 mm	74 mm	12 mm



▶ CPN - Combustion boats

DIMENSIONS - Crystallizing dish



▶ Crystallizing dish



1 | Unglazed. Withstands temperatures up to 1350 °C.

Code	a.	b.	h.
CPN001	88 mm	13 mm	10mm



Code	a.	b.	h.
CPN002	75 mm	13 mm	8 mm
CPN003	105 mm	14 mm	9 mm
CPN004	85 mm	13 mm	8 mm
CPN005	90 mm	13 mm	8 mm



Code	Length	Width	Height
CPN501	112 mm	20 mm	15 mm
CPN502	140 mm	20 mm	11 mm



▶ Annealing crystallizing dish



Code	Length	Width	Height	Volume
CPN503	46 mm	9 mm	9 mm	2 ml
CPN504	63 mm	15 mm	10 mm	4 ml
CPN505	85 mm	11 mm	10 mm	4 ml
CPN506	130 mm	13 mm	11 mm	7 ml
CPN507	160 mm	20 mm	14 mm	20 ml





CPN - Combustion boats

▶ Carbon crystallizing dish



Code	Lenght	Width	Height
CPN508	69 mm	13 mm	10 mm
CPN509	82 mm	12 mm	9 mm

▶ Crystallizing dish



Code	Lenght	Width	Volume
CPN510	65 mm	15 mm	2 ml
CPN511	75 mm	20 mm	2 ml
CPN512	90 mm	25 mm	15 ml
CPN513	105 mm	30 mm	25 ml
CPN514	135 mm	25 mm	27 ml

▶ Crystallizing dish ovale



Code	Lenght	Width	Volume
CPN515	65 mm	15 mm	2 ml



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DJJ - 1 mark, class B, without bulb	202		
DJM - 1 mark, plastic	203		
DJP - 2 marks, class A, with bulb	203		
DJR - 2 marks, class B, with bulb	203		

[D]
VOLUMETRY



ENDO
glassware

Nahita

MARIENFELD

RS
FRANCE

VITLAB

ENDO
plasticware

RS Lab

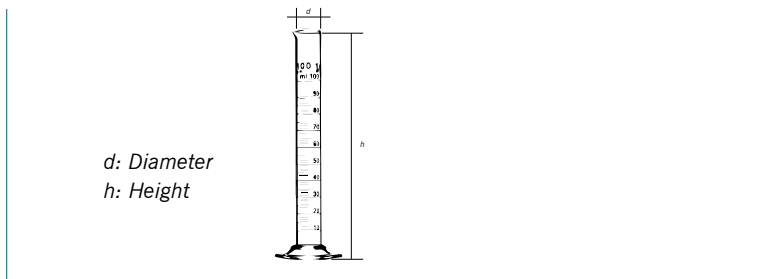
GLASSCO

SIMAX
CZECH REPUBLIC

Kartell

DBB - Class A, tall form, glass

MEASURING CYLINDER, tall form with spout



Tall form, with spout



ISO 4788



1 | Blue graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance
DBB001	5 mL	112 mm	0.1 mL	± 0.05 mL
DBB002	10 mL	135 mm	0.2 mL	± 0.1 mL
DBB003	25 mL	160 mm	0.5 mL	± 0.25 mL
DBB004	50 mL	195 mm	1.0 mL	± 0.5 mL
DBB005	100 mL	240 mm	1.0 mL	± 0.5 mL
DBB006	250 mL	320 mm	2.0 mL	± 1.0 mL
DBB007	500 mL	380 mm	5.0 mL	± 2.5 mL
DBB008	1000 mL	420 mm	10.0 mL	± 5.0 mL
DBB009	2000 mL	520 mm	20.0 mL	± 10.0 mL



ISO 4788 BORO 3.3



1 | Blue graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance
DBB010	10 mL	137 mm	0.2 mL	± 0.10 mL
DBB011	25 mL	167 mm	0.5 mL	± 0.25 mL
DBB012	50 mL	195 mm	1.0 mL	± 0.50 mL
DBB013	100 mL	257 mm	1.0 mL	± 0.50 mL
DBB014	250 mL	330 mm	2.0 mL	± 1.00 mL
DBB015	500 mL	385 mm	5.0 mL	± 2.50 mL
DBB016	1000 mL	460 mm	10.0 mL	± 5.00 mL
DBB017	2000 mL	565 mm	20.0 mL	± 10.00 mL



1 | Blue graduation and hexagonal base.

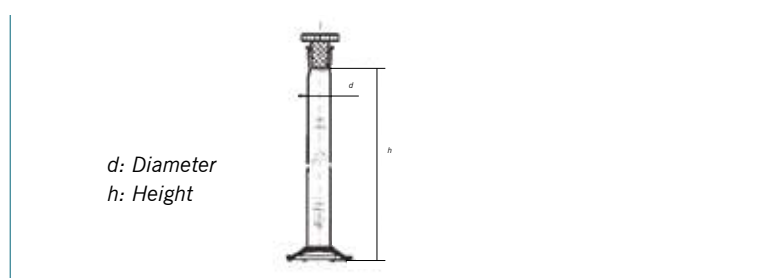


ISO 4788 BORO 3.3

Code	Cap.	h.	Grad.	Tolerance
DBB027	5 mL	115 mm	0.1 mL	± 0,05 mL
DBB028	10 mL	135 mm	0.2 mL	± 0.10 mL
DBB029	25 mL	160 mm	0.5 mL	± 0.25 mL
DBB030	50 mL	195 mm	1.0 mL	± 0.50 mL
DBB031	100 mL	240 mm	1.0 mL	± 0.50 mL
DBB032	250 mL	320 mm	2.0 mL	± 1.00 mL
DBB033	500 mL	380 mm	5.0 mL	± 2.50 mL
DBB034	1000 mL	465 mm	10.0 mL	± 5.00 mL
DBB035	2000 mL	535 mm	20.0 mL	± 10.00 mL

▶ DBB - Class A, tall form, glass

MEASURING CYLINDER, with plastic stopper



▶ With plastic stopper



1 | Blue graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance	Ground
DBB018	5 mL	112 mm	0.1 mL	± 0.10 mL	10/19
DBB019	10 mL	135 mm	0.2 mL	± 0.20 mL	10/19
DBB020	25 mL	160 mm	0.5 mL	± 0.50 mL	19/26
DBB021	50 mL	195 mm	1.0 mL	±1.00 mL	19/26
DBB022	100 mL	240 mm	1.0 mL	±1.00 mL	29/32
DBB023	250 mL	320 mm	2.0 mL	±2.00 mL	29/32
DBB024	500 mL	380 mm	5.0 mL	±5.00 mL	34/35
DBB025	1000 mL	420 mm	10.0 mL	±10.00 mL	45/40
DBB026	2000 mL	520 mm	20.0 mL	± 20,00 mL	45/40



1 | Blue graduation and hexagonal base.



Code	Cap.	h.	Grad.	Tolerance	Ground
DBB045	5 mL	115 mm	0.1 mL	±0.05 mL	10/19
DBB046	10 mL	135 mm	0.2 mL	±0.10 mL	10/19
DBB047	25 mL	160 mm	0.5 mL	±0.25 mL	14/23
DBB048	50 mL	195 mm	1.0 mL	±0.50 mL	19/26
DBB049	100 mL	240 mm	1.0 mL	±0.50 mL	24/29
DBB050	250 mL	320 mm	2.0 mL	±1.00 mL	29/32
DBB051	500 mL	380 mm	5.0 mL	±2.50 mL	34/35
DBB052	1000 mL	465 mm	10.0 mL	±5.00 mL	45/40
DBB053	2000 mL	535 mm	20.0 mL	±10.00 mL	45/40



BORO 3.3 ISO 4788

1 | Blue graduation and hexagonal base.



Code	Cap.	Grad.	Tolerance	Ground
DBB062	25 mL	0,5 mL	± 0,25 mL	14/23
DBB063	50 mL	1,0 mL	± 0,50 mL	19/26
DBB064	100 mL	1,0 mL	± 0,50 mL	24/29
DBB065	250 mL	2,0 mL	± 1,00 mL	29/32
DBB067	1000 mL	10,0 mL	± 5,00 mL	45/40



BORO 3.3 ISO 4788

▶ DBB - Class A, tall form, glass

▶ With glass stopper



BORO 3.3 ISO 4788



1 | Blue graduation and hexagonal base.

Code	Cap.	h.	Grad.	Tolerance	Ground
DBB036	5 mL	115 mm	0.1 mL	±0.05 mL	10/19
DBB037	10 mL	135 mm	0.2 mL	±0.10 mL	10/19
DBB038	25 mL	160 mm	0.5 mL	±0.25 mL	14/23
DBB039	50 mL	195 mm	1.0 mL	±0.50 mL	19/26
DBB040	100 mL	240 mm	1.0 mL	±0.50 mL	24/29
DBB041	250 mL	320 mm	2.0 mL	±1.00 mL	29/32
DBB042	500 mL	380 mm	5.0 mL	±2.50 mL	34/35
DBB043	1000 mL	465 mm	10.0 mL	±5.00 mL	45/40
DBB044	2000 mL	535 mm	20.0 mL	±10.00 mL	45/40

▶ Measuring cylinder



Code	Cap.	h.	Grad.	Tolerance	Ground
DBB060	30 mL				

▶ DBD - Class A, tall form, plastic

▶ Volumetric cylinder, PMP



1 | Embossed scale, hexagonal base

Code: DBD518* - Individual certificate of calibration DAKKS for DBD008

Code	Capacity	h.	Graduation	Tolerance
DBD501	10 mL	145 mm	0.2 mL	±0.1 mL
DBD502	25 mL	170 mm	0.5 mL	±0.25 mL
DBD503	50 mL	200 mm	1.0 mL	±0.5 mL
DBD504	100 mL	250 mm	1.0 mL	±0.5 mL
DBD505	250 mL	315 mm	2.0 mL	±1.0 mL
DBD506	500 mL	360 mm	5.0 mL	±2.5 mL
DBD507	1000 mL	440 mm	10.0 mL	±5.0 mL
DBD508*	2000 mL	482 mm	20.0 mL	±10.0 mL

▶ Volumetric cylinder, PMP



1 | Embossed scale, hexagonal base, red graduation

Code	Capacity	h.	Graduation	Tolerance
DBD510	25 mL	145 mm	0.2 mL	±0.1 mL
DBD513	100 mL	250 mm	0.5 mL	±0.5 mL
DBD515	500 mL	360 mm	1.0 mL	±0.5 mL
DBD516	1000 mL	440 mm	5.0 mL	±2.5 mL

▶ DBG - Class B, tall form, glass

▶ Tall form with spout



1 | White graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance
DBG001	5 mL	112 mm	0.1 mL	±0.1 mL
DBG002	10 mL	135 mm	0.2 mL	±0.2 mL
DBG003	25 mL	160 mm	0.5 mL	±0.5 mL
DBG004	50 mL	195 mm	1.0 mL	±1.0 mL
DBG005	100 mL	240 mm	1.0 mL	±1.0 mL
DBG006	250 mL	320 mm	2.0 mL	±2.0 mL
DBG007	500 mL	380 mm	5.0 mL	±5.0 mL
DBG008	1000 mL	420 mm	10.0 mL	±10.0 mL
DBG009	2000 mL	520 mm	20.0 mL	±20.0 mL



ISO
4788



1 | Amber graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance
DBG035	5 mL	115 mm	0.1 mL	±0.1 mL
DBG036	10 mL	135 mm	0.2 mL	±0.2 mL
DBG037	25 mL	160 mm	0.5 mL	±0.5 mL
DBG038	50 mL	195 mm	1.0 mL	±1.0 mL
DBG039	100 mL	240 mm	1.0 mL	±1.0 mL
DBG040	250 mL	320 mm	2.0 mL	±2.0 mL
DBG041	500 mL	380 mm	5.0 mL	±5.0 mL
DBG042	1000 mL	465 mm	10.0 mL	±10.0 mL
DBG043	2000 mL	535 mm	20.0 mL	±20.0 mL



ISO BORO
4788 3.3



1 | White graduation and hexagonal base..

Code	Cap.	h.	Grad.	Tolerance
DBG044	5 mL	115 mm	0.1 mL	±0.1 mL
DBG045	10 mL	135 mm	0.2 mL	±0.2 mL
DBG046	25 mL	160 mm	0.5 mL	±0.5 mL
DBG047	50 mL	195 mm	1.0 mL	±1.0 mL
DBG048	100 mL	240 mm	1.0 mL	±1.0 mL
DBG049	250 mL	320 mm	2.0 mL	±2.0 mL
DBG050	500 mL	380 mm	5.0 mL	±5.0 mL
DBG051	1000 mL	465 mm	10.0 mL	±10.0 mL
DBG052	2000 mL	535 mm	20.0 mL	±20.0 mL



ISO BORO
4788 3.3

▶ With plastic spout



1 | White graduation and hexagonal base.

Code	Capacity	h.	Graduation	Tolerance	Ground
DBG010	5 mL	112 mm	0.1 mL	±0.1 mL	10/19
DBG011	10 mL	135 mm	0.2 mL	±0.2 mL	10/19
DBG012	25 mL	160 mm	0.5 mL	±0.5 mL	19/26
DBG013	50 mL	195 mm	1.0 mL	±1.0 mL	19/26
DBG014	100 mL	240 mm	1.0 mL	±1.0 mL	29/32
DBG015	250 mL	320 mm	2.0 mL	±2.0 mL	29/32
DBG016	500 mL	380 mm	5.0 mL	±5.0 mL	34/35
DBG017	1000 mL	420 mm	10.0 mL	±10.0 mL	45/40
DBG018	2000 mL	520 mm	20.0 mL	±20.0 mL	45/40



ISO
4788

▶ DBG - Class B, tall form, glass

▶ With plastic stopper



1| Amber graduation and hexagonal base.



BORO 3.3 ISO 4788

Code	Cap.	h.	Grad.	Tolerance	Ground
DBG019	10 mL	135 mm	0.2 mL	±0.1 mL	10/19
DBG020	25 mL	160 mm	0.5 mL	±0.5 mL	14/23
DBG021	50 mL	195 mm	1.0 mL	±1.0 mL	19/26
DBG022	100 mL	240 mm	1.0 mL	±1.0 mL	24/29
DBG023	250 mL	320 mm	2.0 mL	±2.0 mL	29/32
DBG024	500 mL	380 mm	5.0 mL	±5.0 mL	34/35
DBG025	1000 mL	465 mm	10.0 mL	±10.0 mL	45/40
DBG026	2000 mL	535 mm	20.0 mL	±20.0 mL	45/40

▶ With glass stopper



1| White graduation and hexagonal base.



BORO 3.3 ISO 4788

Code	Cap.	h.	Grad.	Tolerance	Ground
DBG027	10 mL	135 mm	0.2 mL	±0.2 mL	10/19
DBG028	25 mL	160 mm	0.5 mL	±0.5 mL	14/23
DBG029	50 mL	195 mm	1.0 mL	±1.0 mL	19/26
DBG030	100 mL	240 mm	1.0 mL	±1.0 mL	24/29
DBG031	250 mL	320 mm	2.0 mL	±2.0 mL	29/32
DBG032	500 mL	380 mm	5.0 mL	±5.0 mL	34/35
DBG033	1000 mL	465 mm	10.0 mL	±10.0 mL	45/40
DBG034	2000 mL	535 mm	20.0 mL	±20.0 mL	45/40

▶ DBJ - Class B, tall form, plastic

▶ With spout, PP, moulded graduation



1| Made of polypropylene, hexagonal base. Permanent embossed graduation.



AUTO +120° APTO

Code	Cap.	h.	Grad.	Tolerance
DBJ001	10 mL	140 mm	0.2 mL	±0.1 mL
DBJ002	25 mL	172 mm	0.5 mL	±0.25 mL
DBJ003	50 mL	200 mm	1.0 mL	±0.5 mL
DBJ004	100 mL	248 mm	1.0 mL	±1.0 mL
DBJ005	250 mL	310 mm	2.0 mL	±2.5 mL
DBJ006	500 mL	362 mm	5.0 mL	±5.0 mL
DBJ007	1000 mL	440 mm	10 mL	±10.0 mL
DBJ008	2000 mL	472 mm	20 mL	±20.0 mL

Kartell

- 1| Special high transparency polypropylene.
- 2| Resistant to +100 °C during continuous use.
- 3| Excellent chemical resistance. Water-repellent walls.



ISO 6706 APTO AUTO +120°

Code	Cap.	h.	Grad.	Tolerance
DBJ009	10 mL	140 mm	0.2 mL	±0.2 mL
DBJ010	25 mL	195 mm	0.5 mL	±0.5 mL
DBJ011	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ012	100 mL	249 mm	1.0 mL	±1.0 mL
DBJ013	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ014	500 mL	361 mm	5.0 mL	±5.0 mL
DBJ015	1000 mL	439 mm	10.0 mL	±10.0 mL
DBJ016	2000 mL	531 mm	20.0 mL	±20.0 mL

▶ DBJ - Class B, tall form, plastic

▶ With spout, PMP, moulded graduation

Kartell

- 1 | They can withstand temperatures up to 170°C.
- 2 | Excellent chemical resistance.
- 3 | Water-repellent walls.

Code	Cap.	h.	Grad.	Tolerance
DBJ017	10 mL	139 mm	0.2 mL	±0.2 mL
DBJ018	25 mL	195 mm	0.5 mL	±0.5 mL
DBJ019	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ020	100 mL	249 mm	1.0 mL	±1.0 mL
DBJ021	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ022	500 mL	361 mm	5.0 mL	±5.0 mL
DBJ023	1000 mL	438 mm	10.0 mL	±10.0 mL
DBJ024	2000 mL	531 mm	20.0 mL	±20.0 mL



▶ With spout, PP, blue graduation

Kartell

- 1 | Special high transparency polypropylene.
- 2 | Resistant to +100 °C during continuous use.
- 3 | Excellent chemical resistance. Water-repellent walls.

Code	Cap.	h.	Grad.	Tolerance
DBJ025	10 mL	140 mm	0.2 mL	±0.2 mL
DBJ026	25 mL	195 mm	0.5 mL	±0.5 mL
DBJ027	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ028	100 mL	249 mm	1.0 mL	±1.0 mL
DBJ029	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ030	500 mL	361 mm	5.0 mL	±5.0 mL
DBJ031	1000 mL	439 mm	10.0 mL	±10.0 mL
DBJ032	2000 mL	531 mm	20.0 mL	±20.0 mL



▶ With spout, PMP(TBX), blue graduation

Kartell

- 1 | Transparent. Resistant to +170°.

Code	Cap.	h.	Grad.	Tolerance
DBJ033	10 mL	139 mm	0.2 mL	±0.2 mL
DBJ034	25 mL	195 mm	0.5 mL	±0.5 mL
DBJ035	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ036	100 mL	249 mm	1.0 mL	±1.0 mL
DBJ037	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ038	500 mL	361 mm	5.0 mL	±5.0 mL
DBJ039	1000 mL	438 mm	10.0 mL	±10.0 mL
DBJ040	2000 mL	531 mm	20.0 mL	±20.0 mL



▶ Volumetric cylinder, SAN

VITLAB

- 1 | Hexagonal base; raised scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ502	50 mL	199 mm	1.0 mL	±1.0 mL
DBJ503	100 mL	260 mm	1.0 mL	±1.0 mL
DBJ504	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ505	500 mL	350 mm	5.0 mL	±5.0 mL
DBJ506	1000 mL	415 mm	10.0 mL	±10.0 mL



▶ DBJ - Class B, tall form, plastic

▶ Volumetric cylinder, PP



1 | Hexagonal base. Blue embossed scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ507	10 mL	145 mm	0.2 mL	±0.2 mL
DBJ508	25 mL	170 mm	0.5 mL	±0.5 mL
DBJ509	50 mL	200 mm	1.0 mL	±1.0 mL
DBJ510	100 mL	250 mm	1.0 mL	±1.0 mL
DBJ511	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ512	500 mL	360 mm	5.0 mL	±5.0 mL
DBJ513	1000 mL	440 mm	10.0 mL	±10.0 mL
DBJ514	2000 mL	482 mm	20.0 mL	±20.0 mL

▶ Volumetric cylinder, PP



1 | Hexagonal base; raised scale.

Code	Cap.	h.	Grad.	Tolerance
DBJ515	10 mL	145 mm	0.2 mL	±0.2 mL
DBJ516	25 mL	170 mm	0.5 mL	±0.5 mL
DBJ517	50 mL	200 mm	1.0 mL	±1.0 mL
DBJ518	100 mL	250 mm	1.0 mL	±1.0 mL
DBJ519	250 mL	315 mm	2.0 mL	±2.0 mL
DBJ520	500 mL	360 mm	5.0 mL	±5.0 mL
DBJ521	1000 mL	440 mm	10.0 mL	±10.0 mL
DBJ522	2000 mL	482 mm	20.0 mL	±20.0 mL

▶ DBM - Class B, low form, glass

▶ Simax cylinder



BORO
3.3

1 | Amber graduation and hexagonal base.

Code	Cap.	h.	Grad.	Tolerance
DBM001	10 mL	90 mm	0.2 mL	±0.2 mL
DBM002	25 mL	100 mm	0.5 mL	±0.5 mL
DBM003	50 mL	125 mm	0.5 mL	±0.5 mL
DBM004	100 mL	150 mm	1.0 mL	±1.0 mL
DBM005	250 mL	170 mm	1.0 mL	±1.0 mL
DBM006	500 mL	235 mm	2.0 mL	±2.0 mL
DBM007	1000 mL	280 mm	5.0 mL	±5.0 mL
DBM008	2000 mL	292 mm	10.0 mL	±10.0 mL

▶ Nessler cylinder



1 | 2 graduations

Code	Capacity	Graduation
DBM018	50 mL	25 y 50 mL
DBM019	100 mL	50 y 100 mL

▶ DBP - Class B, low form, plastic

▶ With spout, PP

Kartell

- 1| Excellent chemical resistance. Embossed graduation.
- 2| Can endure temperatures up to +120 °C.

Code	Cap.	h.	Grad.	Tol.
DBP001	10 mL	88 mm	0.25 mL	±0.1 mL
DBP002	25 mL	107 mm	1 mL	±0.25 mL
DBP003	50 mL	143 mm	2.5 mL	± 0.5mL
DBP004	100 mL	178 mm	5 mL	±1.0 mL
DBP005	250 mL	264 mm	10 mL	±2.5 mL
DBP006	500 mL	305 mm	10 mL	±5 mL
DBP007	1000 mL	332 mm	25 mL	±10 mL
DBP008	2000 mL	370 mm	50 mL	±20 mL



▶ With spout, PMP

Kartell

- 1| Excellent chemical resistance. Embossed graduation.
- 2| Can endure temperatures up to +170 °C.

Code	Cap.	h.	Grad.	Tolerance
DBP009	10 mL	87 mm	0.25 mL	±0.1 mL
DBP010	25 mL	107 mm	1 mL	±0.25 mL
DBP011	50 mL	143 mm	2.5 mL	± 0.5 mL
DBP012	100 mL	177 mm	5 mL	±1.0 mL
DBP013	250 mL	263 mm	10 mL	±2.5 mL
DBP014	500 mL	302 mm	10 mL	±5 mL
DBP015	1000 mL	331 mm	25 mL	±10 mL
DBP016	2000 mL	369 mm	50 mL	±20 mL



▶ Volumetric cylinder, SAN

VITLAB

- 1| Cylindrical base, Embossed scale

Code	Cap.	h.	Divisions	Tolerance
DBP501	25 mL	122 mm	0.5 mL	±0.5 mL
DBP502	50 mL	142 mm	1.00 mL	±1.00 mL
DBP503	100 mL	163 mm	2.00 mL	±2.00 mL
DBP504	250 mL	192 mm	5.00 mL	±5.00 mL
DBP505	500 mL	218 mm	10.00 mL	±10.00 mL
DBP506	1000 mL	285 mm	20.00 mL	±20.00 mL



▶ Volumetric cylinder, SAN

VITLAB

- 1| Cylindrical base, Embossed scale

Code	Cap.	h.	Divisions	Tolerance
DBP507	25 mL	122 mm	0.5 mL	±0.5 mL
DBP508	50 mL	142 mm	1.00 mL	±1.00 mL
DBP509	100 mL	163 mm	2.00 mL	±2.00 mL
DBP510	250 mL	192 mm	5.00 mL	±5.00 mL
DBP511	500 mL	218 mm	10.00 mL	±10.00 mL
DBP512	1000 mL	285 mm	20.00 mL	±20.00 mL





DDB - Class A with stopper, glass

▶ Transparent glass, with PP stopper

ISO
1042

1 | With batch certificate, white graduation.

Code	Cap.	Base	Tolerance	Ground
DDB001	5 mL	15 mm	±0.025 mL	10/19
DDB002	10 mL	18 mm	±0.025 mL	10/19
DDB003	25 mL	25 mm	±0.040 mL	10/19
DDB004	50 mL	30 mm	±0.060 mL	12/21
DDB005	100 mL	40 mm	±0.100 mL	14/23
DDB006	200 mL	50 mm	±0.150 mL	14/23
DDB007	250 mL	50 mm	±0.150 mL	14/23
DDB008	500 mL	70 mm	±0.250 mL	19/26
DDB009	1000 mL	85 mm	±0.400 mL	24/29
DDB010	2000 mL	100 mm	±0.600 mL	24/29

▶ Amber glass, with PP stopper

ISO
1042

1 | With batch certificate, white graduation.

Code	Cap.	Base	Tolerance	Ground
DDB011	5 mL	15 mm	±0.025 mL	10/19
DDB012	10 mL	18 mm	±0.025 mL	10/19
DDB013	25 mL	25 mm	±0.040 mL	10/19
DDB014	50 mL	30 mm	±0.060 mL	12/21
DDB015	100 mL	40 mm	±0.100 mL	12/21
DDB016	250 mL	50 mm	±0.150 mL	14/23
DDB085	500 mL	70 mm	±0.250 mL	19/26
DDB086	1000 mL	85 mm	±0.400 mL	24/29
DDB087	2000 mL	100 mm	±0.600 mL	24/29

▶ Transparent glass, with PP stopper

ISO
1042BORO
3.3

1 | With individual calibration certificate, Blue graduation

Code	Capacity	Base	Ground	Tolerance
DDB017	25 mL	25 mm	10/19	±0.040 mL
DDB018	50 mL	35 mm	12/21	±0.060 mL
DDB019	100 mL	40 mm	14/23	±0.100 mL
DDB020	200 mL	50 mm	14/23	±0.150 mL
DDB021	250 mL	55 mm	14/23	±0.150 mL
DDB022	500 mL	70 mm	19/26	±0.250 mL
DDB023	1000 mL	85 mm	24/29	±0.400 mL
DDB024	2000 mL	110 mm	29/32	±0.600 mL

* Demand for other capacities



1 | With batch certificate, blue graduation.

ISO
1042BORO
3.3

Code	Capacity	Base	Ground	Tolerance
DDB025	5 mL	15 mm	10/19	±0.040 mL
DDB026	10 mL	18 mm	10/19	±0.040 mL
DDB027	20 mL	18 mm	10/19	±0.040 mL
DDB028	25 mL	25 mm	10/19	±0.040 mL
DDB029	50 mL	35 mm	12/21	±0.060 mL
DDB030	100 mL	40 mm	14/23	±0.100 mL
DDB031	200 mL	50 mm	14/23	±0.150 mL
DDB032	250 mL	55 mm	14/23	±0.150 mL
DDB033	500 mL	70 mm	19/26	±0.250 mL
DDB034	1000 ml	85 mm	24/29	±0.400 mL
DDB035	2000 ml	110 mm	29/32	±0.600 mL
DDB060	5000 mL	-	34/35	±1.200 mL

▶ DDB - Class A with stopper, glass

▶ Amber glass, with PP stopper

1 | With batch certificate, white graduation.



Code	Cap.	Base	Ground	Tolerance
DDB036	5 mL	15 mm	10/19	±0.040 mL
DDB037	10 mL	18 mm	10/19	±0.040 mL
DDB038	20 mL	18 mm	10/19	±0.040 mL
DDB039	25 mL	25 mm	10/19	±0.040 mL
DDB040	50 mL	35 mm	12/21	±0.060 mL
DDB041	100 mL	40 mm	14/23	±0.100 mL
DDB042	200 mL	50 mm	14/23	±0.150 mL
DDB043	250 mL	55 mm	14/23	±0.150 mL
DDB044	500 mL	70 mm	19/26	±0.250 mL
DDB045	1000 mL	85 mm	24/29	±0.400 mL
DDB046	2000 mL	110 mm	29/32	±0.600 mL



▶ Transparent glass, glass stopper

1 | White graduation



Code	Cap.	Base	Ground	Tolerance
DDB047	5 mL	22 mm	7/16	±0.025 mL
DDB048	10 mL	27 mm	7/16	±0.025 mL
DDB049	50 mL	50 mm	12/21	±0,060 mL

* Demand for other measures



▶ Transparent glass, with plastic stopper

1 | White graduation



Code	Cap.	Base	Ground	Tolerance
DDB050	5 mL	22 mm	7/16	±0.025 mL
DDB051	10ml	27 mm	7/16	±0.025 mL
DDB052	25 mL	40 mm	10/19	±0.040 mL
DDB053	50 mL	50 mm	12/21	±0.060 mL
DDB054	100 mL	60 mm	12/21	±0.100 mL
DDB055	200 mL	75 mm	14/23	±0.150 mL
DDB056	250 mL	80 mm	14/23	±0.150 mL
DDB057	500 mL	100 mm	19/26	±0.250 mL
DDB058	1000 mL	125 mm	24/29	±0.400 mL
DDB059	2000 mL	160 mm	29/32	±0.600 mL



▶ DDD - Screw cap, plastic

▶ Volumetric flask, PFA



1 | Thermal stability -200 to 260°C. Chemically inert.

Code	Cap.	Height	Tolerance	GL
DDD501	10 mL	90 mm	±0.04 mL	18
DDD502	25 mL	115 mm	±0.04 mL	18
DDD503	50 mL	150 mm	±0.06 mL	18
DDD504	100 mL	180 mm	±0.10 mL	18
DDD505	250 mL	235 mm	±0.15 mL	25
DDD506	500 mL	270 mm	±0.25 mL	25





DDD - Screw cap, plastic

▶ Volumetric flask opaque, PMP

**VITLAB**

1 | With screw cap

Code	Cap.	Height*	Tolerance	GL
DDD511	250 mL	235 mm	±0.15 mL	GL 25

*height without screw cap



DDG - Class A, NS stopper, plastic

▶ Volumetric flask, PMP

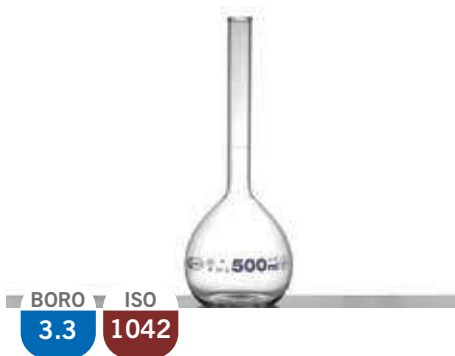
**VITLAB**

Code	Cap.	Height	Tolerance
DDG501	10 mL	90 mm	±0.04 mL
DDG502	25 mL	115 mm	±0.04 mL
DDG503	50 mL	150 mm	±0.06 mL
DDG504	100 mL	180 mm	±0.10 mL
DDG505	250 mL	235 mm	±0.15 mL
DDG506	500 mL	270 mm	±0.25 mL
DDG507	1000 mL	310 mm	±0.40 mL



DDJ - Class A without stopper, glass

▶ Volumetric flask without stopper

**GLASSCO**

1 | Blue graduation

Code	Cap.	Base	Tolerance
DDJ011	5 mL	15 mm	±0.040 mL
DDJ001	10 mL	18 mm	±0.040 mL
DDJ002	20 mL	18 mm	±0.040 mL
DDJ003	25 mL	25 mm	±0.040 mL
DDJ004	50 mL	35 mm	±0.060 mL
DDJ005	100 mL	40 mm	±0.100 mL
DDJ006	200 mL	50 mm	±0.150 mL
DDJ007	250 mL	55 mm	±0.150 mL
DDJ008	500 mL	70 mm	±0.250 mL
DDJ009	1000 mL	85 mm	±0.400 mL
DDJ010	2000 mL	110 mm	±0,600 mL

SIMAX
CZECH REPUBLIC

1 | White graduation



Code	Cap.	Base	Tol.
DDJ012	5 mL	27 mm	±0.025 mL
DDJ013	10 mL	27 mm	±0.025 mL
DDJ014	25 mL	40 mm	±0.040 mL
DDJ015	50 mL	50 mm	±0.060 mL
DDJ016	100 mL	60 mm	±0.100 mL
DDJ017	200 mL	75 mm	±0.150 mL
DDJ018	250 mL	80 mm	±0.150 mL
DDJ019	500 mL	100 mm	±0.250 mL
DDJ020	1000 mL	125 mm	±0.400 mL
DDJ021	2000 mL	160 mm	±0.600 mL

▶ DDM - Class B with stopper, glass



1 | White graduation

Code	Cap.	Base	Tolerance	Ground
DDM008	5 mL	22 mm	±0.05 mL	7/16
DDM009	10 mL	27 mm	±0.05 mL	7/16
DDM010	25 mL	40 mm	±0.08 mL	10/19
DDM011	50 mL	50 mm	±0.12 mL	12/21
DDM012	100 mL	60 mm	±0.20 mL	12/21
DDM013	200 mL	75 mm	±0.30 mL	14/23
DDM014	250 mL	80 mm	±0.30 mL	14/23
DDM015	500 mL	100 mm	±0.50 mL	19/26
DDM016	1000 mL	125 mm	±0.80 mL	24/29
DDM017	2000 mL	160 mm	±1.20 mL	29/32
DDM018	5000 mL	217 mm	±2.40 mL	34/35



BORO 3.3 ISO 1042

page
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▶ DDP - Class B, threaded stopper, plastic

▶ Flasks with screw cap PP

Kartell

- 1 | Calibrated with gravimetric method at 20 °C.
- 2 | Molded in a single piece of highly transparent polypropylene.

Code	Cap.	Base	GL
DDP001	25 mL	36 mm	18
DDP002	50 mL	46 mm	18
DDP003	100 mL	58 mm	18
DDP004	250 mL	82 mm	25
DDP005	500 mL	100 mm	25
DDP006	1000 mL	120 mm	25



APTO AUTO +120°

▶ Volumetric flask with screw cap, PFA

Kartell

- 1 | High thermal resistance -250 °C to +270 °C
- 2 | Supplied with standard DIN PFA plugs
- 3 | Individually calibrated .
- 4 | Class 'A'.

Code	Capacity	GL
DDP013	50 mL	18
DDP014	100 mL	18
DDP015	250 mL	25
DDP016	500 mL	25



ISO 1042 AUTO +120°

▶ Volumetric flask with screw cap, PMP

Kartell

- 1 | Calibrated with gravimetric method at 20 °C.
- 2 | Molded in a single piece of highly transparent polypropylene..

Code	Capacity	Base	GL
DDP017	50 mL	46 mm	18
DDP018	100 mL	58 mm	18
DDP019	250 mL	82 mm	18
DDP020	500 mL	100 mm	25
DDP021	1000 mL	120 mm	25



AUTO +120° APTO

▶ DDP - Class B, threaded stopper, plastic

▶ Volumetric flask, PP



VITLAB

1 | With screw cap

Code	Cap.	Height	Tolerance	GL
DDP501	10 mL	90 mm	±0.08 mL	18
DDP502	25 mL	115 mm	±0.08 mL	18
DDP503	50 mL	150 mm	±0.12 mL	6
DDP504	100 mL	180 mm	±0.20 mL	18
DDP505	250 mL	235 mm	±0.30 mL	25
DDP506	500 mL	270 mm	±0.50 mL	25
DDP507	1000 mL	310 mm	±0.80 mL	32

▶ Volumetric flask, PP



VITLAB

1 | With screw cap

Code	Cap.	Height	Tolerance	GL
DDP508	10 mL	90 mm	±0.08 mL	18
DDP509	25 mL	115 mm	±0.08 mL	18
DDP510	50 mL	150 mm	±0.12 mL	18
DDP511	250 mL	235 mm	±0.30 mL	25
DDP512	500 mL	270 mm	±0.50 mL	25
DDP513	1000 mL	310 mm	±0.80 mL	32

▶ DDR - Class B, NS stopper, plastic

▶ Volumetric flask with cap, PMP



Kartell

- 1 | Calibrated with the gravimetric method at 20 °C
- 2 | Molded in a single, highly transparent piece

Code	Capacity	Base	DIN
DDR001	50 mL	46 mm	14/23
DDR002	100 mL	58 mm	14/23
DDR003	250 mL	82 mm	19/26
DDR004	500 mL	100 mm	19/26
DDR005	1000 mL	120 mm	19/26

▶ Volumetric flask with cap, PP



Kartell

- 1 | Calibrated with gravimetric method at 20 °C.
- 2 | Molded in a single piece of highly transparent polypropylene.

Code	Capacity	Base	DIN
DDR006	25 mL	36 mm	12/21
DDR007	50 mL	46 mm	14/23
DDR008	100 mL	58 mm	14/23
DDR009	250 mL	82 mm	19/26
DDR010	500 mL	100 mm	19/26
DDR011	1000 mL	120 mm	19/26

▶ DDR - Class B, NS stopper, plastic

▶ Volumetric flask, PMP

1 | Transparent

VITLAB

Code	Cap.	Height	Tolerance	Neck NS
DDR501	10 mL	90 mm	0.08 mL	10/19
DDR502	25 mL	115 mm	0.08 mL	10/19
DDR503	50 mL	150 mm	0.12 mL	12/21
DDR504	100 mL	180 mm	0.20 mL	14/23
DDR505	250 mL	235 mm	0.30 mL	19/26
DDR506	500 mL	270 mm	0.50 mL	19/26
DDR507	1000 mL	310 mm	0.80 mL	24/29



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▶ Volumetric flask, PMP

1 | Transparent

VITLAB

Code	Cap.	Height	Tolerance	Neck NS
DDR508	25 mL	90 mm	0.08 mL	10/19
DDR509	50 mL	115 mm	0.08 mL	10/19
DDR510	100 mL	150 mm	0.12 mL	12/21
DDR511	250 mL	180 mm	0.20 mL	14/23
DDR512	500 mL	235 mm	0.30 mL	19/26
DDR513	1000 mL	270 mm	0.50 mL	19/26
DDR514	1000 mL	310 mm	0.80 mL	24/29



▶ DDT - Class B without stopper, glass

▶ Volumetric flask without stopper

1 | White graduation

SIMAX
CZECH REPUBLIC

Code	Cap.	Base	Tolerance
DDT001	10 mL	27 mm	0.05 mL
DDT002	25 mL	40 mm	0.08 mL
DDT003	50 mL	50 mm	0.12 mL
DDT004	100 mL	60 mm	0.20 mL
DDT005	200 mL	75 mm	0.30 mL
DDT006	250 mL	80 mm	0.30 mL
DDT007	500 mL	100 mm	0.50 mL
DDT008	1000 mL	125 mm	0.80 mL
DDT009	2000 mL	160 mm	1.20 mL



BORO 3.3 ISO 1042

▶ DDW - 2 marks, glass

ENDO
glassware

Code	Capacity
DDW001	100/110 mL
DDW002	200/220 mL



DGB - Class A with bulb, glass

0 bottom



ISO
835



1 | Blue graduation

Code	Cap.	Base
DGB001	1 mL	0.10 mL
DGB009	1 mL	0.01 mL
DGB002	2 mL	0.10 mL
DGB020	2 mL	0.01 mL
DGB008	5 mL	0.05 mL
DGB003	5 mL	0.10 mL
DGB004	10 mL	0.10 mL
DGB005	20 mL	0.10 mL
DGB006	25 mL	0.10 mL
DGB007	50 mL	0.10 mL

0 top



ISO
835



1 | Blue graduation

Code	Capacity	Graduation
DGB010	1 mL	0.10 mL
DGB018	1 mL	0.01 mL
DGB019	2 mL	0.01 mL
DGB011	2 mL	0.10 mL
DGB017	5 mL	0.05 mL
DGB012	5 mL	0.10 mL
DGB013	10 mL	0.10 mL
DGB014	20 mL	0.10 mL
DGB015	25 mL	0.10 mL
DGB016	50 mL	0.10 mL

DGD - Class A without bulb, glass



0 top



ISO
835

1 | With batch certificate, amber graduation

Code	Capacity	Graduation
DGD001	1 mL	0.01 mL
DGD002	2 mL	0.02 mL
DGD003	5 mL	0.05 mL
DGD004	5 mL	0.10 mL
DGD005	10 mL	0.10 mL

DGG - Class B with bulb, glass



0 bottom



ISO
835

1 | Amber graduation.

Code	Capacity	Base
DGG011	1 mL	0.01 mL
DGG008	1 mL	0.05 mL
DGG001	1 mL	0.10 mL
DGG012	2 mL	0.02 mL
DGG009	2 mL	0.05 mL
DGG002	2 mL	0.10 mL
DGG010	5 mL	0.05 mL
DGG003	5 mL	0.10 mL
DGG004	10 mL	0.10 mL
DGG005	20 mL	0.10 mL
DGG006	25 mL	0.10 mL
DGG007	50 mL	0.10 mL

DGJ - Class B without bulb, glass

▶ 0 bottom

1| Amber graduation.



Code	Capacity	Graduation
DGJ001	0,1 mL	0.001 mL
DGJ002	0.2 mL	0.002 mL
DGJ003	0.5 mL	0.005 mL
DGJ005	1 mL	0.01 mL
DGJ006	2 mL	0.02 mL
DGJ007	5 mL	0.05 mL
DGJ008	10 mL	0.1 mL
DGJ009	20 mL	0.1 mL
DGJ010	25 mL	0.1 mL
DGJ020	0.2 mL	0.01 mL



ISO
835

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DGM - Plastic, sterile

▶ Disposable pipettes, PS

1| Crystal clear, graduated, individual sterile packaging, pyrogen-free.



Code	Volume	Graduation	Length
DGM503	5 mL	0,10 mL	320 mm
DGM504	10 mL	0,10 mL	320 mm
DGM505	25 mL	0,20 mL	340 mm



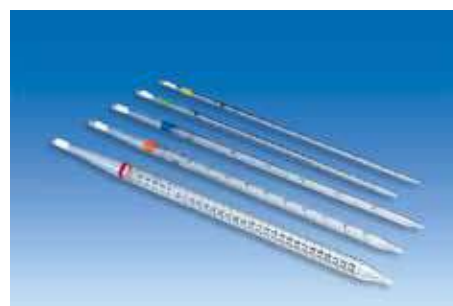
DGP - Plastic, non sterile

▶ Disposable pipettes, PS, non-sterile

1| Crystal clear, graduated, non-sterile.



Code	Volume	Graduation	Length
DGP501	1 mL	0,01 mL	272 mm
DGP502	2 mL	0,01 mL	272 mm
DGP503	5 mL	0,10 mL	320 mm
DGP504	10 mL	0,10 mL	320 mm



▶ Graduated pipettes, PP, class B



1| Highly transparent.
2| With high-contrast, blue markings.

Code	Volume	Graduation	Length
DGP505	1 mL	0,01 mL	300 mm
DGP506	2 mL	0,01 mL	300 mm
DGP507	5 mL	0,01 mL	330 mm
DGP508	10 mL	0,01 mL	330 mm
DGP509	10 mL	0,01 mL	320 mm





DJB - 1 mark, class A, with bulb

ISO
648

1 | Calibrated at 20 °C with color code.

Code	Capacity	Tolerance
DJB001	1 mL	±0.007 mL
DJB002	2 mL	+0.010 mL
DJB003	5 mL	±0.015 mL
DJB004	10 mL	±0.020 mL
DJB005	15 mL	±0.030 mL
DJB006	20 mL	±0.030 mL
DJB007	25 mL	±0.030 mL
DJB008	50 mL	±0.050 mL
DJB009	100 mL	±0.080 mL



DJD - 1 mark, class A, without bulb

ISO
648

1 | Calibrated at 20 °C with color code.

Code	Capacity	Tolerance
DJD001	1 mL	±0.007 mL
DJD002	2 mL	±0.010 mL
DJD003	5 mL	±0.015 mL
DJD004	10 mL	±0.020 mL
DJD005	20 mL	±0.030 mL
DJD006	25 mL	±0.030 mL



DJG - 1 mark, class B, with bulb

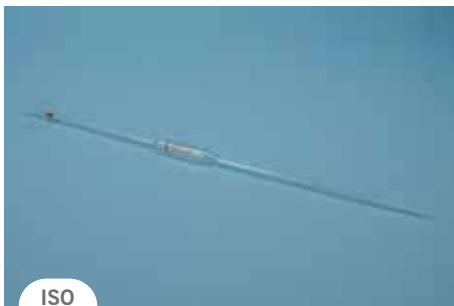
ISO
648

1 | Calibrated at 20 °C with color code.

Code	Capacity	Tolerance
DJG001	1 mL	±0.015 mL
DJG002	2 mL	±0.02 mL
DJG003	5 mL	±0.03 mL
DJG004	10 mL	±0.04 mL
DJG005	15 mL	±0.05 mL
DJG006	20 mL	±0.06 mL
DJG007	25 mL	±0.06 mL
DJG008	50 mL	±0.1 mL
DJG009	100 mL	±0.16 mL



DJJ - 1 mark, class B, without bulb

ISO
648

1 | Calibrated at 20 °C with color code. ISO 648.

Code	Capacity	Tolerance
DJJ001	1 mL	±0.015 mL
DJJ002	2 mL	±0.020 mL
DJJ003	5 mL	±0.030 mL
DJJ004	10 mL	±0.040 mL
DJJ005	11 mL	±0.040 mL
DJJ006	20 mL	±0.060 mL
DJJ007	25 mL	±0.060 mL

▶ DJM - 1 mark, plastic

- Highly transparent. With high-contrast, blue markings.
- Break-resistant. High chemical resistance.

VITLAB

Code	Volume	Tolerance	Length
DJM501	1 mL	0,01 mL	300 mm
DJM502	2 mL	0,02 mL	300 mm
DJM503	5 mL	0,03 mL	300 mm
DJM504	10 mL	0,04 mL	440 mm
DJM505	25 mL	0,05 mL	450 mm
DJM506	50 mL	0,10 mL	460 mm

page
[203]

▶ DJP - 2 marks, class A, with bulb

- Calibrated at 20 °C with color code.

ENDO
glassware

Code	Capacity	Tolerance
DJP001	1 mL	±0.007 mL
DJP002	2 mL	±0.010 mL
DJP003	5 mL	±0.015 mL
DJP004	10 mL	±0.020 mL
DJP005	15 mL	±0.030 mL
DJP006	20 mL	±0.030 mL
DJP007	25 mL	±0.030 mL
DJP008	50 mL	±0.050 mL
DJP009	100 mL	±0.080 mL

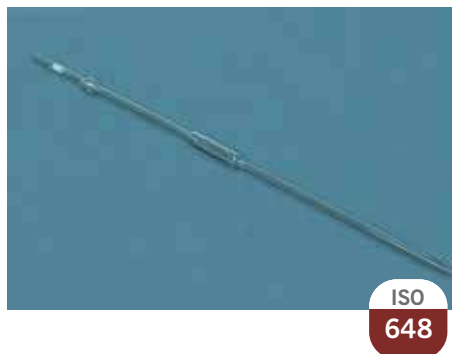


▶ DJR - 2 marks, class B, with bulb

- Calibrated at 20 °C with color code.

RS
FRANCE

Code	Capacity	Tolerance
DJR001	1 mL	±0.015 mL
DJR002	2 mL	±0.02 mL
DJR003	5 mL	±0.03 mL
DJR004	10 mL	±0.04 mL
DJR005	20 mL	±0.06 mL
DJR006	25 mL	±0.06 mL
DJR007	50 mL	±0.1 mL
DJR008	100 mL	±0.16 mL



▶ DLB - Pasteur pipettes

▶ Glass Pasteur pipettes

- With throttling in the suction pipe, long and fine tip. Non-sterile and non-graduated. Box of 250 units.

Code	Length
DLB001	150 mm
DLB002	230 mm
DLB013*	280 mm

* Thermo-sterile and cotton

ENDO
glassware

Code	Length
DLB014	150 mm
DLB015	280 mm
DLB016	230 mm
DLB017*	150 mm
DLB018*	230 mm

* Thermo-sterile and cotton



DLB - Pasteur pipettes

▶ Disposable dropping pipettes, PE



Kartell

- 1 | One-piece with integrated bellows suction system.
- 2 | Graduated and watertight. Bags of 100 pieces

Code	Length	Capacity	Ø bar	Graduation
DLB003	134 mm	1,5 mL	8 mm	0,5 mL
DLB004	195 mm	5,0 mL	10 mm	1,0 mL

▶ Plastic Pasteur pipettes, PE



Kartell

- 1 | With suction pump and Graduation.
- 2 | Available sterilized in single pack and non-sterilized in multiple pack.
- 3 | Bags of 500 units; sterile pipettes supplied in individual bags.

Code	Length	Capacity	Graduation
DLB005*	150 mm	1 mL	0,25 mL
DLB006*	150 mm	3 mL	0,50 mL
DLB007	150 mm	Micro, capillary	-
DLB008	150 mm	1 mL	0,25 mL
DLB009	150 mm	3 mL	0,50 mL

* Sterilized

▶ Plastic Pasteur pipettes



JENDO
plasticware

- 1 | Manufactured in single use polyethylene, not sterile. In bags of 500 units.

Code	Length	Capacity	Graduation
DLB010	160 mm	1.0 mL	0,25 mL
DLB011	160 mm	3 mL	0,50 mL

▶ Pasteur pipettes, PE-LD



VITLAB

- 1 | Disposable. Very good reproducibility of the number of drops per milliliter, thus ideal for distributing aliquots of liquid portions.

Code	Volume max	Outer tip	Length
DLB501	3,0 mL	2,5 mm	152 mm
DLB502	3,0 mL	2,8 mm	151 mm
DLB503	3,0 mL	3,3 mm	154 mm
DLB504	1,1 mL	1,0 mm	150 mm
DLB508	3,5 mL	1,0 mm	148 mm

▶ Dropping pipettes, PE-LD



VITLAB

- 1 | With integrated pipetting bulb. For sampling and decanting of infectious or toxic liquids.

Code	Volume	Length
DLB505	1,8 mL	98 mm

DLB - Pasteur pipettes

Dropping pipettes, PE-LD



- 1 | With integrated pipetting bulb.
- 2 | For sampling and decanting of infectious or toxic liquids.

Code	Volume	Length
DLB506	1,5 mL	134 mm
DLB507	5 mL	195 mm



DLD - Wine pipettes



- 1 | Made of glass with two handles.

Code	Length	Capacity	Diameter
DLD001	640 mm	350 mL	30 mm



DNB - Type Mohr, PTFE stopcock

Burette Mohr AS PTFE stopcock



- 1 | Calibrated at 20 °C with color code.

Code	Capacity	Divisions	Tolerance
DNB001	10 mL	0.1 mm	± 0.03 mL
DNB002	25 mL	0.1 mm	± 0.05 mL
DNB003	50 mL	0.1 mm	± 0.05 mL



ISO 835 BORO 3.3

Burette Mohr AS PTFE stopcock



- 1 | Blue graduation
- 2 | With frosted band for easy reading..

Code	Capacity	Graduation
DNB004	10 mL	1/20
DNB005	25 mL	1/10
DNB006	50 mL	1/10



ISO 835 BORO 3.3

▶ DNB - Type Mohr, PTFE stopcock

▶ Burette Mohr AS PTFE neddle stopcock



BORO 3.3 ISO 835

- 1 | With frosted band for easy reading, Blue graduation
- 2 | Headset key.

Code	Capacity	Graduation	Tolerance
DNB013	25 mL	1/10	± 0.05 mL
DNB014	50 mL	1/10	± 0.05 mL

▶ Burette with PTFE stopcock, class A



ISO 835

- 1 | Blue graduation

Code	Capacity	Length	Graduation	Tolerance
DNB010	10 mL	600 mm	0.1 mL	± 0.03 mL
DNB011	25 mL	630 mm	0.1 mL	± 0.05 mL
DNB012	50 mL	-	-	-

▶ Burette with PTFE stopcock, class B

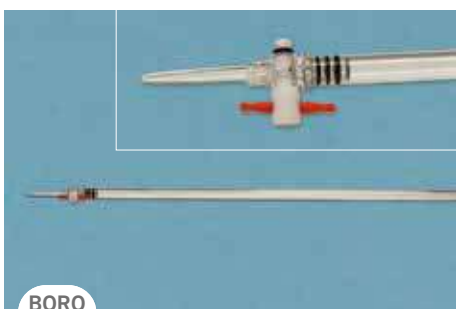


BORO 3.3 ISO 835

- 1 | Blue graduation

Code	Capacity	Length	Graduation	Tolerance
DNB007	10 mL	600 mm	0.1 mL	± 0.05 mL
DNB008	25 mL	630 mm	0.1 mL	± 0.10 mL
DNB009	50 mL	860 mm	0.1 mL	± 0.10 mL

▶ PTFE stopcock



BORO 3.3

- 1 | Transparent methacrylate (PMMA).
- 2 | White graduation
- 3 | Dismountable, straight mouth.

Code	Capacity	Length	Graduation
DNB015	25 mL	560 mm	0.1 mL
DNB016	50 mL	735 mm	0.1 mL

▶ DNB - Type Mohr, PTFE stopcock

▶ High precision plastic burette

Kartell

- 1| Combination of PVC, PMP and FEP
- 2| Compatible with chemicals

Code	Capacity	Length	Graduation
DNB033	10 mL	580 mm	0.1 mL
DNB034	25 mL	480 mm	0.1 mL
DNB035	50 mL	740 mm	0.1 mL



▶ Burettes, borosilicate glass

VITLAB

- 1| Plastic-coated burette made of borosilicate glass 3.3, tolerances corresponding to DIN ISO 384, Class B.

Code	Tolerance	Graduation	Length
DNB501	0,05 mL	0,05 mL	800 mm
DNB502	0,10 mL	0,10 mL	800 mm



▶ DND - Type Mohr, glass stopcock

▶ Burette with glass stopcock, class A

ENDO
glassware

- 1| Blue graduation

Code	Capacity	Length	Graduation	Tolerance
DND005	10 mL	535 mm	0.1 mL	± 0.03 mL
DND006	25 mL	565 mm	0.1 mL	± 0.03 mL
DND007	50 mL	780 mm	0.1 mL	± 0.05 mL



▶ Burette with glass stopcock, class B

ENDO
glassware

- 1| Blue graduation

Code	Capacity	Length	Graduation	Tolerance
DND002	10 mL	535 mm	0.1 mL	± 0.05 mL
DND003	25 mL	565 mm	0.1 mL	± 0.10 mL
DND004	50 mL	780 mm	0.1 mL	± 0.10 mL



▶ Burette Mohr B robinet verre

ENDO
glassware

- 1| Amber graduation

Code	Capacity	Length	Resolution
DND001	100 mL	830 mm	1/5 mL





DNG - Type Mohr, without glass stopcock



1 | Amber graduation

Code	Capacity
DNG004	25 mL



DNJ - Type Mohr, accessories

▶ PTFE RED key stopcock



Code	Size	Diameter	Rod
DNJ001	12,5 mm	1,5 mm	8 mm
DNJ002	12,5 mm	2,5 mm	8 mm
DNJ003	14,5 mm	0.1 mm	10 mm

▶ Burette stopcock, PMP/PTFE



1 | PMP key body. Punch with polished PTFE surface, easy to turn.
2 | Insert with 2 sealing rings.

Code	For burettes	Ø Points interior
DNJ501	25 mL	1,25 mL
DNJ502	50 mL	1,25 mL



DNM - Pellet type

▶ PTFE burette, class AS



1 | Class AS, Graduation blue. With enameled band for easy reading. PTFE side key and intermediate glass key.

Code	Capacity	Graduation
DNM001	10 mL	1/10
DNM002	10 mL	1/20
DNM003	10 mL	1/50
DNM004	25 mL	1/20
DNM005	25 mL	1/10
DNM006	50 mL	1/10
DNM007	100 mL	1/5

▶ PTFE burette, amber glass



1 | Class AS, blue graduation. With enameled band for easy reading. PTFE side key and intermediate glass key.

Code	Capacity	Graduation
DNM008	10 mL	1/10
DNM009	10 mL	1/20
DNM010	10 mL	1/50
DNM011	25 mL	1/20
DNM012	25 mL	1/10
DNM013	50 mL	1/10
DNM014	100 mL	1/5

▶ DNP - Pellet type, accessories

▶ Reservoir bottle



Code	Color	Capacity
DNP001	Transparent	2000 mL
DNP002	Amber	2000 mL



▶ DNR - Schilling type

Kartell

1 | Class B. PE bottle with PE-LD base.

Code	Capacity	Graduation
DNR001	25 mL	0.1 mm
DNR002	50 mL	0.1 mm



Code	Capacity	Graduation
DNR003	10 mL	0.05 mm
DNR004	25 mL	0.1 mm



1 | The burette stopcock turns easily and enables fine titration. The holding device for the riser pipe serves as additional shock-proofing.

Code	Volume ml	Tolerance \pm ml	Graduation ml	Height mm
DNR503	25	0,05	0,05	900
DNR504	50	0,10	0,10	900
DNR501	25	0,05	0,05	900
DNR502	50	0,10	0,10	900
DNR506	50	0,10	0,10	900



▶ DQB - Imhoff cones, glass



Imhoff cone

d: Width
h: Height



1 | In borosilicate glass

Code	Capacity	\varnothing superior	h.
DQB001	1000 mL	118 mm	470 mm
DQB002*	1000 mL	118 mm	470 mm

DQD - Imhoff cones, plastic

BORO
3.3**Kartell**

- 1 | Transparent material and permanent graduation in relief.
- 2 | Bottom screw cap.
- 3 | Available graduations: 0,1 - 0,5 - 1,0 - 2,0 - 50

Code	Capacity	Ø superior	h.
DQD001	1000 mL	125 mm	480 mm

**VITLAB**

- 1 | According to DIN 12 672. Crystal clear, with molded graduations for precise reading of volumes.
- 2 | For simple, basic cleaning and rinsing, the screw coupling on the tip can be removed. Lower breakage risk than for PC or glass containers.

Code	Capacity
DQD501	1000 mL

DQF - Supports

Kartell

- 1 | For Imhoff cones, in PMMA (transparent methacrylate)

Code	Spaces	Dimensions
DQF001	2	150x300x294 mm



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[F] LABORATORY ASSEMBLIES AND TOOLS



▶ FCB - Stands

▶ A-shaped support stand



- 1 | Base in oven-painted cast steel, chrome-plated steel rod.
- 2 | Rubber on the base for good stability.

Code	Base	Rod (LxØ)
FCB001	200x30 mm	600x10 mm

▶ Retort stand



- 1 | Base in plate or reinforced plate, chromed steel rod.

Code	Colour	Base	Rod (LxØ)
Plate			
FCB006	Black	175x100 mm	500x10 mm
FCB007	Black	225x125 mm	600x10 mm
FCB008	Black	250x150 mm	600x10 mm
FCB009	Black	300x150 mm	900x10 mm

Reinforced plate

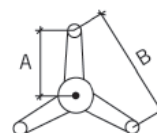
FCB022	Blue	200x135 mm	600x10 mm
FCB023	Blue	300x175 mm	600x10 mm
FCB025	Blue	115x75 mm	500x10 mm

▶ Tripod support stand



DIMENSIONS - Tripod support stand

A: width 1
B: width 2



- 1 | Cast steel

Code	Colour	A.	B.	Rod (LxØ)
FCB010	Blue	110 mm	170 mm	600x10 mm
FCB011	Blue	135 mm	210 mm	700x10 mm
FCB012	Blue	175 mm	300 mm	800x10 mm
FCB013	Blue	85 mm	130 mm	500x10 mm

▶ Base with rods



- 1 | Polypropylene with chromed steel rods.
- 2 | Each base is provided with two rods, they can be joined together on top of each other to achieve the desired length.

Code	Description	Dimensions	Rod (LxØ)
FCB018	Base with central hole	293x147x14 mm	250x12mm
FCB019	Base with lateral hole	293x147x14 mm	250x12mm



FCB - Stands

▶ Parallel rod position



Code	Description	Pour tiges
FCB501	Parallel rod position	Ø12 mm
FCB502	Perpendicular rod position	Ø12 mm
FCB503	Mounting base parallél/perpen.	Ø12 mm



▶ Universal mounting base



1 | Suitable for mounting and supporting vertical and horizontal bars.

Code	Description
FCB504	Bench top multiple rod support.



▶ Tripod stand "TRISOP"



1 | Made of galvanised steel.

Code	Side	Total height
FCB505	130 mm	230 mm



▶ Bench clamp "PASS"



1 | Original Phywe. Clamps to the bench while holding from 4 to 12 mm diameter rod.

Code	Description
FCB506	Bench top width up to 40mm.



▶ Central rod retort stand



1 | Vertical rod of Dur-aluminium of 10 Ø x 600mm high.

Code	Base dimensions	Weight
FCB507	315 x 200 mm	3 Kg.



▶ FCB - Stands

▶ Support stand kits



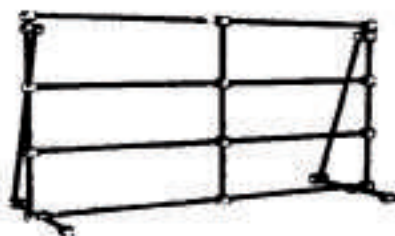
1 | 700 high x 700 mm long.

Code	Material
FCB508	Dur-aluminium
FCB509	AISI 304 stainless steel

Composed of

- 8 rods 700 mm long.
- 2 rods 350 mm long.
- 16 "P" type bossheads.
- 4 foot supports.
- 1 Allen key.

▶ Support stand kits



1 | 700 high x 1000 mm long.

Code	Material
FCB510	Dur-aluminium
FCB511	AISI 304 stainless steel

Composed of

- 4 rods 1000 mm long.
- 5 rods 750 mm long.
- 2 rods 350 mm long.
- 20 "P" type bossheads.
- 4 foot supports.
- 1 Allen key.

▶ Support stand kits



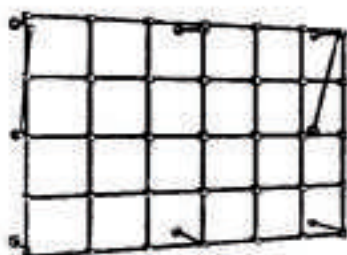
1 | 1000 high x 1000 mm long.

Code	Material
FCB531	Dur-aluminium
FCB532	AISI 304 stainless steel

Composed of

- 10 rods of 1000mm long.
- 2 rods 700 mm long.
- 3 rods 350 mm long.
- 34 "P" type bossheads.
- 6 foot supports.
- 1 Allen key.

▶ Support stand kits



1 | 1000 high x 2000 mm long.

Code	Material
FCB533	Dur-aluminium
FCB534	AISI 304 stainless steel

Composed of

- 5 rods 2000 mm long.
- 7 rods 1000 mm long.
- 8 rods 200 mm long.
- 2 rods 350 mm long.
- 45 "P" type bossheads.
- 8 foot supports.
- 1 Allen key.



FCB - Stands

Double base support t "MINI"



1 | Small foot support with screw clamp for removable rods from 8 to 12 mm Ø.

Code	Base dimensions	Weight
FCB512	210x200 mm	1,2 Kg



Burette stand



1 | With AISI 304 stainless steel rod of 10 mm Ø x 600 mm high. Weight 2 Kg.
2 | Made specifically for the "DUPLEX" burette clamp with two plates at the base, black and white.

Code	Base dimensions	Weight
FCB513	170 mm	2 Kg



Double base support t "MAXI"



1 | Rod of AISI 304 stainless steel of 20 Ø x 800 mm high. Designed to support weights up to 20 Kg at 300 mm height from the base. Useful for stirrers.

Code	Base dimensions	Weight
FCB514	400x410 mm	7 Kg



U shaped stand



1 | AISI 304 stainless steel of
2 | 20 Ø x 800 mm high. Very stable.

Code	Base dimensions	Weight
FCB515	400x290 mm	7 Kg



Support "STAND"



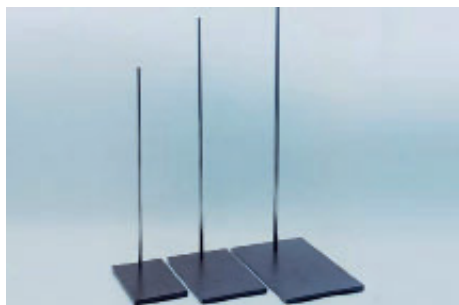
1 | Solid base, three vertical rods of 800 mm in height, two horizontal rods of 500 mm in length, six "P" type bossheads.
2 | Made of Dur-aluminium.

Code	Base dimensions	Weight
FCB516	500x250 mm	6,5 Kg



▶ FCB - Stands

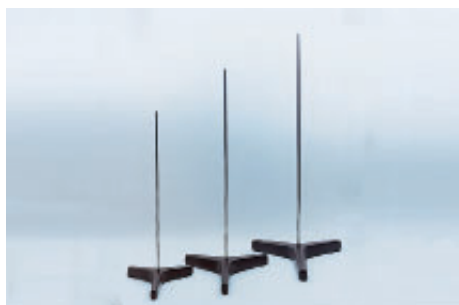
▶ Retort stand base dur-al



1 | Plates built according to DIN 12892 standard.

Code	Rod Ø x Height	Plate Height x Width	Weight
Rods made of Dur-aluminium			
FCB517	8 x 500 mm	200 x 125 mm	1,4 Kg
FCB518	10 x 600 mm	250 x 160 mm	2,4 Kg
FCB519	12 x 700 mm	315 x 200 mm	3 Kg
FCB520	12 x 800 mm	315 x 200 mm	3,4 Kg
Rods made of Inox. AISI 304.			
FCB521	8 x 500 mm	200 x 125 mm	2 Kg
FCB523	12 x 700 mm	315 x 200 mm	3,6 Kg
FCB524	12 x 800 mm	315 x 200 mm	3,8 Kg

▶ Tripod support stand



Code	Ø x Height	Weight Kg
AISI 304 stainless steel rod.		
FCB525	8 x 500 mm	1.4 Kg
FCB527	12 x 700 mm	2.5 Kg
Rods made of Dur-aluminium		
FCB528	8 x 500 mm	1,2 Kg
FCB529	10 x 600 mm	1,5 Kg
FCB530	12 x 700 mm	2 Kg

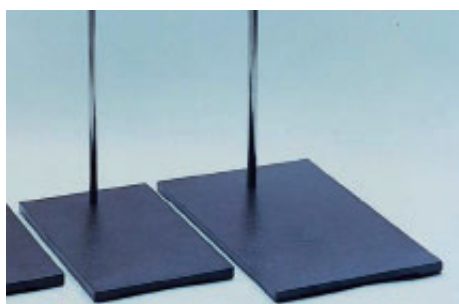
▶ Tripod support "PASS"



- 1 | Original Phywe.
- 2 | To support square and round rods from 6 to 14 mm dia.
- 3 | Base with levelling screws.

Code	Base dimentions	Weight Kg
FCB535	190 mm	2 Kg

▶ Retort stand



- 1 | Original Phywe.
- 2 | To support square and round rods from 6 to 14 mm dia.
- 3 | Base with levelling screws.

Code	Rod Ø x height	Plate Length x width	Weight Kg
FCB036	10 x 600 mm.	215 x 130 mm.	2.7 Kg
FCB037	12 x 800 mm.	315 x 200 mm.	3.4 Kg



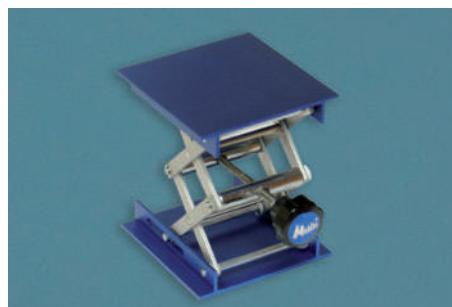
FCD - Laboratory jacks

Laboratory jack



1 | Manufactured in aluminium with scissor type support. With manual control and non-slip feet.

Code	For rods	Max.load	Height
FCD001	100x100 mm	14 kg	40-140 mm
FCD002	150x150 mm	27 kg	50-270 mm
FCD003	200x200 mm	38 kg	50-320 mm



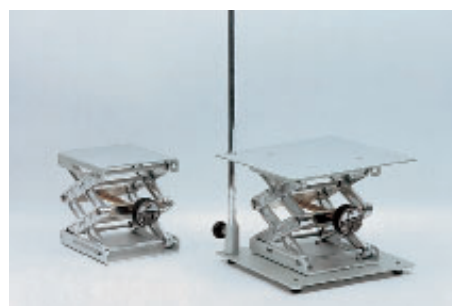
Laboratory jack "LAB-ELE"



1 | With anodised aluminium base.

Code	Platform	Elevated height	Support weight
FCD501	115x140 mm	260 mm	1 Kg
FCD505*	200x200 mm	260 mm	1,7 Kg

*With hole and clamp screw for a support rod of 10 Ø x 600 mm high

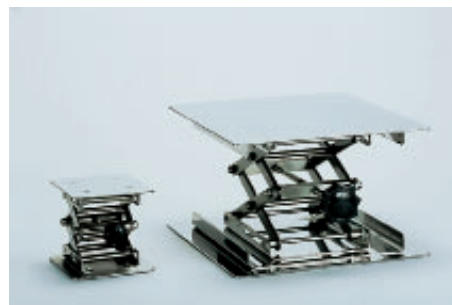


Laboratory jacks "LAB-STEEL"



1 | Made completely of AISI 304 stainless steel.

Code	Platform	Elevated height	Support weight
FCD502	145x145 mm	55 to 155 mm	1,3 Kg
FCD503	200x200 mm	65 to 270 mm	2 Kg
FCD504	250x250 mm	65 to 270 mm	3 Kg



FCG - Clamps for burettes, tubes

Clamp 2 prongs



1 | Made of chromed metal and PVC coated tips.

Code	Description	Dimensions	Bosshead
FCG001	12-45 mm	210 mm	No
FCG002	20-60 mm	220 mm	No
FCG003	7-25 mm	205 mm	No
FCG004	12-45 mm	110 mm	Yes (fixed up to 17 Ø mm)
FCG005	4-20 mm	100 mm	Yes (fixed up to 14 Ø mm)
FCG006	7-25 mm	100 mm	Yes (fixed up to 14 Ø mm)
FCG007	12-45 mm	155 mm	Yes (rotary up to 18 Ø mm)
FCG008	7-25 mm	150 mm	Yes (rotary up to 18 Ø mm)



Automatic clamp



1 | Made of chromed metal, suitable for holding burettes and thermometers.
2 | Spring closure.

Code	Aperture	Length	Bosshead	Rod (ØxL)
FCG009	0-25 mm	110 mm	Yes	-
FCG010	0-25 mm	160 mm	No	8x120 mm



▶ FCG - Clamps for burettes, tubes

▶ Clamp for 1 burette



Nahita

1 | Made of aluminium.

Code	Aperture	Colour
FCG011	Up to 20 mm	White

▶ Double clamp for burettes

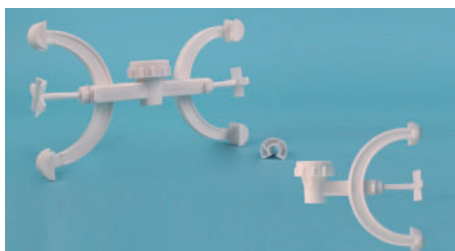


Nahita

1 | With bosshead for rods up to 13mm diameter.

Code	Material	Colour
FCG012	Aluminium	White
FCG013	Plastic	White

▶ Clamp PP for burettes



ENDO
plasticware

Code	Capacity	For rods of
FCG014	2 burettes	10 a 12 mm
FCG015	1 burette	10 a 12 mm



Kartell

1 | Equipped with a stainless steel spring.

Code	Capacity	Ø rods
FCG016	1 burette	10/14 mm
FCG017	2 burettes	10/14 mm

▶ Thermometer clamp



SELECT

1 | In chrome-plated metal, automatic spring closure.

2 | Particularly suitable for holding burettes and thermometers. For diameters up to 25 mm

Code	For Ø	Length
FCG501	0-25 mm	155 mm



▶ FCG - Clamps for burettes, tubes

▶ Clamp for burettes and tubes



1 | Made of chrome plated metal with two prong jaws coated with PVC.

Code	Lenght	For Ø
FCG502	210 mm	7 to 25 mm.



▶ Clamp for burettes and condensers



1 | Made of chrome plated metal with PVC coated jaws.

Code	Lenght	For Ø
FCG503	210 mm	12 to 45 mm.



▶ Bosshead with burette and tube clamp



1 | Made of chrome plated metal with PVC coated double prong jaws.

Code	Lenght	For Ø
FCG504	75 mm	7 to 25 mm.



▶ Swivel clamp bosshead for condensers



1 | Swivel clamp with double PVC lined jaws.

Code	Lenght	For Ø
FCG505	110 mm	12 to 45 mm.



▶ Double burette clamp "DUPLEX"



1 | Self adjusting clamp for 2 burettes, with central bosshead screw.
 1 | Made of Chrome plated metal with PVC coated jaws.
 1 | Enables complete visibility of the burette scale while being held.

Code	Lenght
FCG506	170 mm



▶ FCG - Clamps for burettes, tubes

▶ Burette clamp with bosshead



- 1 | In chrome-plated metal, fixed bosshead.
- 2 | Particularly suitable for holding burettes, thermometers and test tubes. For diameters up to 25 mm

Code	For Ø	Lenght
FCG507	0-25 mm	70 mm

▶ Burette clamp "TRIPS"



- 1 | In chrome-plated metal, fixed bosshead.
- 2 | Three metal fingers. For shank diameters up to 14 mm

Code	For Ø	Lenght
FCG508	4-20 mm	210 mm

▶ Clamp with bosshead



- 1 | In chrome-plated metal, fixed nut.
- 2 | Three metal fingers. For shank diameters up to 14 mm

Code	For Ø	Lenght
FCG509	4-20 mm	70 mm

▶ FCJ - Clamps, 3-4 prongs

▶ Clamp 3 prongs with out bosshead



- 1 | Made of aluminium.



Code	Aperture	Lenght	Adjustment	Rod (ØxL)
FCJ001	0-30 mm	175 mm	Simple	8x125 mm
FCJ002	0-70 mm	240 mm	Simple, red	8x150 mm
FCJ004	0-95mm	240 mm	Simple, blue	12x180 mm
FCJ005	0-95mm	240 mm	Simple, blue	8x150 mm
FCJ006	0-50mm	210 mm	Double	10x140 mm
FCJ007	0-85 mm	250 mm	Double	12x155 mm



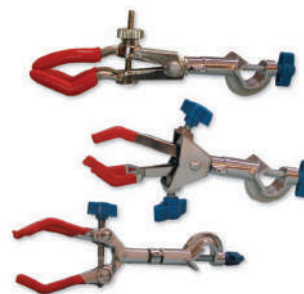
▶ FCJ - Clamps, 3-4 prongs

▶ Clamp 3 prongs with bosshead



1 | In chromed metal, with PVC coated fingertips. Rotating bosshead for rods up to 18 mm.

Code	Aperture	Lenght	Adjustment
FCJ008	0-30 mm	125 mm	Simple
FCJ009	0-70 mm	165 mm	Simple
FCJ010	0-60 mm	145 mm	Double
FCJ011	0-90 mm	170 mm	Double



▶ Clamp 4 prongs without bosshead



1 | Made of chrome-plated metal, with coated tips. Opening 0-80 mm.

The model with a swivel bosshead accepts rods up to 18 mm in diameter

Code	Aperture	Lenght	Rod
FCJ012	230 mm	No	8x155 mm
FCJ013	250 mm	No	10x130 mm*
FCJ014	230 mm	No	12x145 mm
FCJ015	160 mm	Rotary	-
FCJ016	0-100 mm	No	10x165 mm
FCJ017	0-100 mm	No	12x165 mm

*Adjustable angle 180°.



▶ Universal clamp MINIMAX



1 | With cork coated jaws.

Code	For Ø	Lenght	Bosshead
FCJ502	0-25 mm	70 mm	Fix



▶ Clamp universal "MINIMAX"



1 | With cork coated jaws. Suitable for heavy items. T-wrench.

Code	For Ø	Lenght	Material
FCJ503	0-80 mm	210 mm	Dur-Aluminium traité



▶ Clamp "TRIPLEX"



1 | In chromed metal. With PVC-coated fingertips
2 | Double adjustment

Code	For Ø	Lenght	Adjustment	Rod Ø
FCJ504	0-35 mm	205 mm	Double	-
FCJ505	0-60 mm	230 mm	Double	12 mm



▶ FCJ - Clamps, 3-4 prongs

▶ Universal clamps "GIROMAX" with metal rotation



- 1 | With cork lined jaws.
- 2 | With a hinge joint of 180° rotation angle.

Code	Lenght	For Ø
FCJ508	270 mm	0 to 80 mm.

▶ FCK - Clamps, special

▶ For thermometers



- 1 | Made of chrome-plated metal, with rotating nut. For rods of up to 18 mm.

Code	Lenght	Aperture
FCK001	140 mm	6-15 mm

▶ Suspension clamp for thermometers



- 1 | FMade of chrome-plated metal, with rotating nut. For rods of up to 18 mm.

Code	Lenght
FCK002	130 mm

▶ Chain clamp for big diameters



- 1 | In stainless steel, with chain and spring clip

Code	For diameters
FCK003	90/145 mm

▶ Thermometer clamp



- 1 | Hook at one end for a thermometer and chrome plated.

Code	Lenght
FCK501	90 mm



▶ FCK - Clamps, special

▶ Beaker clamp "MAXIM"



1 | Made of chrome plated metal with clamp end covered with stabilized glass fibre.

Code	Lenght	For Ø
FCK502	370 mm	0 to 180 mm.

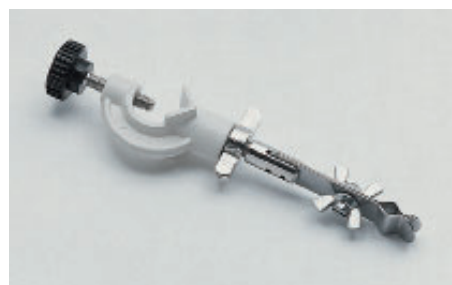


▶ Thermometer clamp



1 | Swivel bosshead and press lock, made of AISI 304 stainless steel.

Code	Lenght	For Ø
FCK503	90 mm	6 to 15 mm.



▶ Clamp "MEDIMAX"



1 | With chain and spring clamp made of AISI 304 stainless steel.

Code	Lenght	For Ø
FCK504	200 mm	90 to 145 mm.



▶ FCM - Clips for ground joints

▶ Clip for tapered joints



1 | In chromed metal for conical grinding.

Code	Aperture
FCM001	10/19
FCM002	14/23
FCM003	19/26
FCM004	24/29
FCM005	29/32
FCM006	45/40



▶ Clip POM



1 | They do not scratch the glass.

Code	Colour	Ground joints
FCM007	Yellow	14/23
FCM008	Blue	19/26
FCM011	Green	24/29
FCM010	Red	29/32
FCM009	Brown	45/40



▶ FCM - Clips for ground joints

▶ Clip POM



AUTO
+121°

Kartell

1 | They do not scratch the glass.

Code	Ground joints	Colour
FCM012	10/19	Black
FCM013	14/23	Yellow
FCM014	19/26	Blue
FCM015	24/29	Green
FCM016	29/32	Red
FCM017	34/35	Orange
FCM018	45/40	Brown

▶ Spherical joint clamp



ENDO
plasticware

1 | Made of stainless steel, with maximum security screw lock.
2 | For fastening of swivel-type ground joints

Code	For joint
FCM019	R-13
FCM020	R-19
FCM021	R-29
FCM022	R-35

▶ Conical joint clips



1 | Made from AISI 304 stainless steel.

Code	Joint
FCM501	7.5/16
FCM502	10/19
FCM515	19/26
FCM516	24/29
FCM517	29/32
FCM518	45/40

▶ Conical joint clips



1 | Made of PMP (polymethyl pentane).

Code	Colour	Joint
FCM503	10/19	Black
FCM504	14/23	Yellow
FCM505	19/26	Blue
FCM506	24/29	Green
FCM507	29/32	Red
FCM508	34/35	Orange
FCM509	45/40	Brown



▶ FCM - Clips for ground joints

▶ Ground round joint clips



1 | Made of AISI 304 stainless steel with ratchet fixed pin.

Code	Round joint
FCM512	29 mm
FCM513	35 mm
FCM514	19 mm



▶ Ground round joint clips



1 | Made of chromed steel.

Code	Round joint
FCM519	13 mm
FCM520	19 mm
FCM521	29 mm
FCM522	35 mm



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▶ FCP - Bossheads

▶ Double bosshead



1 | They allow instruments to be mounted at a 90° angle.

Code	Description	Length	Rods
FCP001	Painted small	53 mm	13 mm
FCP002	Painted medium	70 mm	16 mm
FCP003	Painted big	84 mm	21 mm
FCP004	Painted extra big	97 mm	25 mm
FCP005	Zinc-plated small	53 mm	13 mm
FCP006	Zinc-plated medium	70 mm	16 mm
FCP007	Zinc-plated big	84 mm	21 mm
FCP008	Zinc-plated extra big	97 mm	25 mm
FCP009	Zinc-plated curved	100 mm	16 mm



▶ Rotary double bosshead



Code	Rods up to
FCP011	20/13 mm
FCP012	18 mm



▶ Bosshead Phywe model



1 | Metallic, cross mounted.

Code	Colour	Length	Rods up to
FCP013	Grey	170 mm	24 mm



▶ FCP - Bossheads

▶ Universal bosshead



1 | For parallel, perpendicular and 'T' shaped mounts.

Code	Colour	Lenght	Rods up to
FCP014	Chromed	55 mm	16 mm
FCP015	Painted	55 mm	16 mm

▶ Double bosshead



1 | Bosshead type 'P': for the assembly of two right-angled rods.
 2 | Bosshead type 'Trevin': for the assembly of multiple supports and in 3 different angles.

Code	Model	Rods up to
FCP016	Type P	10 mm
FCP017	Type P	12 mm
FCP018	Type P	14 mm
FCP019	Type P	16 mm
FCP020	Trevin	9-13 mm

▶ Type P Bosshead



1 | In nickel-plated metal. For perpendicular fixings

CODE: FCP502 Allen hex key. Suitable for "P" type bosshead.

Code	For Ø bars
FCP501	12 mm

▶ Double Bosshead



1 | In chromed metal.

Code	Rods ø
FCP503	5 to 17 mm



▶ FCP - Bossheads

▶ Bosshead double



Code	Material	For Ø from
FCP504	Chromed metal	20 mm
FCP505	Black	20 mm



▶ Bosshead "MINI"



Code	For Ø from
FCP506	5 to 12 mm.



▶ Bosshead "MAXIM"



Code	Opening	Rods up to
FCP507	Two openings.	30 mm Ø 20 mm Ø



▶ Bosshead "GIROFIX"



1| Chrome plated with swivel toothed clamp for holding rods at any angle.

Code	For rod Ø from
FCP508	5 to 15 mm



▶ Bosshead double



1| Made of special "Dural" chrome alloy.
2| Highly resistant which allows them to be used for the assembly of multiple supports which can be assembled in three different angles

Code	Description
FCP509	Pour Ø de 9 à 13 mm.
FCP510	Pour Ø de 19 à 25 mm



▶ FCP - Bossheads

▶ Bosshead "PASS"



- 1| Original Phywe.
- 2| For joining and clamping multipurpose, round or rectangular rods up to 12 mm across.
- 3| For cross T and parallel arrangements.

Code	Rods up to \varnothing
FCP511	12 mm

▶ Bosshead "SUNTECH"



- 1| With screw clamp joints. Ideal for supporting overhead stirrers.

Code	Rods up to \varnothing
FCP512	5 to 22

▶ FCR - Rings, open

▶ Open retort ring with shank



- 1| Open ring without bosshead, made of chromed steel
- 2| For plate stand, tripod stand etc.

Code	\varnothing external	Lenght (center)
FCR001	60 mm	180 mm
FCR002	80 mm	195 mm
FCR003	100 mm	200 mm
FCR004	120 mm	215 mm

▶ Retort ring with bosshead



- 1| Open ring without bosshead, made of chromed steel
- 2| For plate stand, tripod stand etc.

Code	\varnothing external	Lenght (center/bosshead)
FCR009	50 mm	95 mm
FCR010	80 mm	130 mm
FCR011	100 mm	130 mm
FCR012	130 mm	110 mm



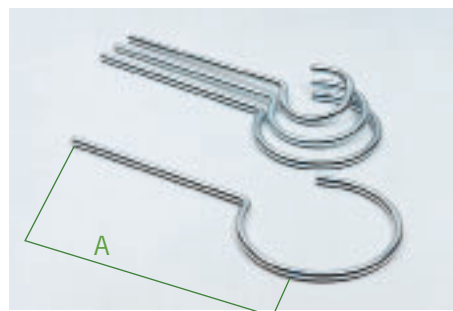
▶ FCR - Rings, open

▶ Open retort ring



1| In galvanised steel.

Code	∅ ext. ring	Usable length A
FCR501	60 mm	180 mm
FCR502	80 mm	195 mm
FCR503	100 mm	200 mm
FCR504	120 mm	215 mm
FCR505	140 mm	225 mm



▶ Open ring with bosshead



1| In galvanised steel.

Code	∅ ext. ring	Usable length A
FCR506	60 mm	100 mm
FCR507	80mm	130 mm
FCR508	100mm	160 mm
FCR509	120mm	170 mm
FCR510	140mm	180 mm



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▶ FCV - Rings, closed

▶ Retort ring with shank closed



- 1| Closed ring without bosshead, made of chromed steel.
- 2| For plate stand, tripod stand etc.

Code	∅ external	Total length	Shank length
FCV001	60 mm	200 mm	155 mm
FCV002	80 mm	225 mm	155 mm
FCV003	100 mm	250 mm	155 mm
FCV004	120 mm	255 mm	155 mm



▶ Retort ring with bosshead closed



- 1| Closed ring without bosshead, made of chromed steel.
- 2| For plate stand, tripod stand etc.

Code	∅ external	Length (center/bosshead)
FCV005	50 mm	110 mm
FCV006	80 mm	110 mm
FCV007	120 mm	150 mm
FCV008	135 mm	150 mm



▶ Closed ring retort supports



1| Made from galvanised steel.

Code	Ring exterior ∅	Usable length A
FCV501	60 mm.	180 mm.
FCV503	100 mm.	200 mm.
FCV504	120 mm.	215 mm.
FCV505	140 mm.	225 mm.



▶ FCV - Rings, closed

▶ Bosshead "PASS"



- 1 | To support flat bottom vessels and instruments.
- 2 | Chrome plated bosshead.

Code	Plate Ø
FCV506	80 mm
FCV507	150 mm

▶ Closed ring retort supports



- 1 | Made of galvanised steel.

Code	Ring exterior Ø	Usable length A
FCV508	60 mm.	180 mm.
FCV509	80 mm	130 mm.
FCV510	100 mm.	200 mm.
FCV511	120 mm.	215 mm.
FCV512	140 mm.	225 mm.

▶ FCY - Rods without thread

▶ Rod for supports



Kartell

- 1 | Chrome-plated iron bar.
- 2 | For supports FCB018 and FCB019.

Code	Diameter	Lenght
FCY001	12 mm	25 cm

▶ Rod for supports



- 1 | Fits on to the main body of the hotplate.
- 2 | Suitable for the circular.

Code	Rod of	High
FCY501	12mm Ø	500 cm



FCY - Rods without thread

Rods and tubes



1 | 12 mm Ø bars and rods. To be used with the "TREVIN" and "P" type bossheads

Code	Material	Lenght
FCY502	Dur-aluminium rods.	60 mm
FCY503	Dur-aluminium rods.	200 mm
FCY504	Dur-aluminium rods.	350 mm
FCY505	Dur-aluminium rods.	700 mm
FCY506	Dur-aluminium rods.	1000 mm
FCY507	Dur-aluminium rods.	2000 mm
FCY508	Dur-aluminium rods.	3000 mm
FCY509	AISI 304 stainless steel tube.	60 mm
FCY510	AISI 304 stainless steel tube.	200 mm
FCY511	AISI 304 stainless steel tube.	350 mm
FCY512	AISI 304 stainless steel tube.	700 mm
FCY513	AISI 304 stainless steel tube.	1500 mm
FCY516	AISI 304 stainless steel tube.	1000 mm
FCY518	AISI 304 stainless steel tube.	2000 mm
FCY519	AISI 304 stainless steel tube.	3000 mm



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Standard rods



1 | Suitable for double "T MINI" and Tripod "PASS"

Code	Material	Lenght
FCY514	Stainless steel	600x10 mm
FCY515	Stainless steel	700 x12 mm
FCY517	Stainless steel	8x500 mm



FFB - Tripod stands

Round



1 | Round section ring, with rubber tips on the legs.

Code	Material	Diameter	Height
FFB001	Steel	125 mm	200 mm
FFB002	Steel	150 mm	200 mm
FFB003	Steel	200 mm	200 mm
FFB004	Stainless steel	120 mm	200 mm
FFB005	Stainless steel	150 mm	200 mm



FFB - Tripod stands

▶ Tripod supports with round top



Code	Material	Diameter	Height
FFB501	Stainless Steel	80 mm	210 mm
FFB502	Stainless Steel	100 mm	210 mm
FFB503	Stainless Steel	120 mm	210 mm
FFB504	Stainless Steel	140 mm	210 mm
FFB505	Nickel plated steel	80 mm	210 mm
FFB506	Nickel plated steel	100 mm	210 mm
FFB507	Nickel plated steel	120 mm	210 mm
FFB508	Nickel plated steel	140 mm	210 mm
FFB509	Nickel plated steel	160 mm	210 mm

▶ Tripod stand for ceramic plates



1 | With adjustable sides to prevent the plate from moving or tilting.

Code	For plates of	Height
FFB510	120 x 120 mm.	210 mm
FFB511	140 x 140 mm.	210 mm
FFB512	160 x 160 mm.	210 mm

▶ Tripod stand with ring top



1 | Galvanised steel.

Code	Ø exterior ring	Total height
FFB513	80 mm.	210 mm
FFB514	100 mm.	210 mm
FFB515	120 mm.	210 mm

▶ Tripod stand with ring top, adjustable height



1 | Galvanised steel.

Code	Ø exterior ring	Adjustable height
FFB516	100 mm	170 to 250 mm.
FFB517	140 mm.	170 to 250 mm.
FFB518	180 mm.	170 to 250 mm.



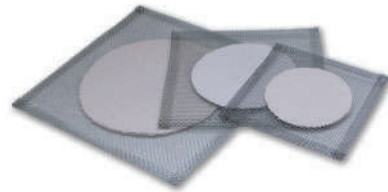
FFD - Gauze iron wires

Iron wire gauze



- 1 | Centre of ceramic fiber, does not contain asbestos.
- 2 | For heating substances with Bunsen burners.

Code	Side length	Ø tube
FFD001	12x12 cm	80 mm
FFD002	15x15 cm	100 mm
FFD003	20x20 cm	145 mm



Ceramic plates "NEOCERAM"



- 1 | Resistant to temperatures from -200 °C to 700 °C

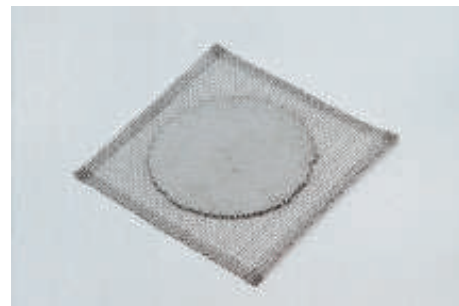
Code	Dimensions
FFD501	120 x 120 x 5 mm.
FFD502	140 x 140 x 5 mm.
FFD503	160 x 160 x 5 mm.



Gauze iron wire with ceramic fibre



Code	Dimensions
FFD504	100 mm Side
FFD505	120 mm Side
FFD506	140 mm Side
FFD507	160 mm Side
FFD508	180 mm Side.
FFD509	200 mm Side



FFG - Triangles

Pipeclay triangle



- 1 | Made up of three tubes of refractory clay based on silimanite. Linked in the form of a triangle by thick galvanised metal wires.
- 2 | For holding the crucibles during the calcination process.

Code	Side length	Ø tube
FFG001	30 mm	9 mm
FFG002	50 mm	8 mm
FFG003	65 mm	8 mm
FFG004	90 mm	8 mm



Refractory tube and wire triangle supports



Code	Side
FFG501	50 mm
FFG502	60 mm
FFG503	75 mm



▶ FFG - Triangles

▶ Triangle supports



1 | Made of 4 mm Ø AISI 304 stainless steel with electrobright finish.

Code	Side lenght
FFG504	40 mm
FFG505	50 mm
FFG506	60 mm

▶ FFJ - Burners

▶ Alcohol lamp safety system



Code	Description
FFJ002	Alcohol lamp safety system
FFJ017	Metres of wick for alcohol lamps

▶ Micro Bunsen burner, natural gas



1 | With gas and air stopcock.
2 | Connection through conical serrated joint.

Code	Description
FFJ003	Micro Bunsen burner, natural gas
FFJ004	Micro Bunsen burner, LPG
FFJ005	Bunsen burner, natural gas
FFJ006	Bunsen burner, LPG

▶ Burner permanent for blade



1 | Permanent fblade. Total height: 150 mm.

Code	For	mbar
FFJ501	For butane/propane gas	45/57 mbar
FFJ502	For natural gas	18/25 mbar



FFJ - Burners

▶ Blow pipes



Code	For
FFJ503	Butane gas
FFJ504	Natural gas



▶ Alcohol burner



1 | Screwcap jar with wick.

Code	Capacity
FFJ506	120 ml



▶ Alcohol burner



1 | Chrome plated top with wick height control.
2 | With lid and chain.

Code	Capacity
FFJ507	120 ml



▶ Gas cable with connections



1 | Flexible coated stainless steel with 1/2 inch connection with quick fit and safety valve.
2 | Conforms to the UNE 60715 & BS669. Safety regulations.

Code	Length
FFJ508	100 cm



▶ Burner "MICROTORCH"



1 | Used for soldering, dentistry, general laboratory use.
2 | Suitable for plastic moulds, glass and metal tubes. etc.
3 | Butane gas.

Code	Gas capacity	Total time before refill
FFJ509	26 g	2 hours



FFJ - Burners

Hot Air gun "Salki 1500"



COMECTA

Code	FFJ510
Temperature °C	Until 590 °C
Positions	Position 0 stop. Position I temperature 400 °C Position II temperature 590 °C
Power W	1500 W
Weight Kg	0.8 Kg

Accessories for Salki 1500



COMECTA

Code	For
FFJ511	Burner head 75 mm.
FFJ512	Shaft Ø 20 mm
FFJ513	Tube deflector, surface 75 mm.

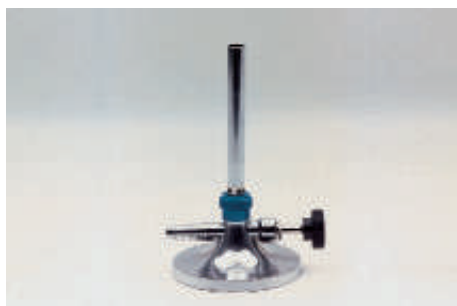
Simple bunsen burner



- 1 | Air regulator only, nickel plated.
- 2 | External tube Ø : 11 mm. Total height: 130 mm.

Code	For
FFJ514	Butane/Propane gas.
FFJ525	For natural gas.

Bunsen burner



- 1 | With both gas and air regulator.
- 2 | Tube Ø exterior: 11 mm. Total height: 140 mm.

Code	For
FFJ515	Butane/Propane gas.
FFJ542	Natural gas



▶ FFJ - Burners

▶ High power burner



- 1 | With air and gas regulators.
- 2 | Tube Ø outer at its maximum diameter 21 mm.
- 3 | Total height 170 mm.

Code	For
FFJ516	Butane/Propane gas.
FFJ543	Natural gas



▶ Tripod support with flat ring



- 1 | Tripod support with flat ring, fitted with a burner, suitable for "Camping Gas International" bottle.

Code	Exterior ring Ø	Interior ring Ø
FFJ517	140 mm	110 mm



▶ Bunsen burner



- 1 | With air and gas regulators Ø outer tube: 11 mm. Total height: 140 mm.
- 2 | Tube Ø outer : 13 mm. Total Height: 170 mm.

Code	Gas type	Pressure	Nominal
FFJ518	Butane	28/37 mbar	0.69 kw
FFJ519	Natural	18 mbar	0.69 kw
FFJ520	Butane	28/37 mbar	1.14 kw
FFJ521	Natural	18 mbar	1.14 kw



▶ Bunsen burner with conical tube teclu



- 1 | With air and gas regulators. Total height: 150 mm.

Code	Gas type	Pressure	Nominal
FFJ522	Butane	28/37 mbar	0.69 kw
FFJ523	Natural	18 mbar	0.69 kw



▶ Burner for butane gas



- 1 | Suitable for use with bottled gas "International Camping Gas".

Code	External tube Ø	Nominal power
FFJ524	14 mm	0.72 Kw at 1 bar



FFJ - Burners

Meker burner



- 1 | With permanent flblade. Gas and air control.
- 2 | External tube Ø at its widest point: 22 mm. Total height: 175 mm.

Code	For
FFJ526	Butane/Propane gas.
FFJ527	For natural gas.

Meker burner



- 1 | With gas and air regulator.
- 2 | Model Small. External tube Ø at its maximum point: 22 mm. Total height: 175 mm.
- 3 | Model Medium. External tube Ø at its maximum point: 27 mm. Total height: 185 mm.
- 4 | Model Large. External tube Ø at its widest part: 32 mm. Total height: 190 mm.

Code	Model	For
FFJ528	Small	Butane/Propane gas
FFJ529	Small	For natural gas
FFJ530	Medium	Butane/Propane gas
FFJ531	Medium	For natural gas
FFJ532	Medium	Butane/Propane gas
FFJ533	Medium	For natural gas

Bunsen burner with safety gas cut out, natural gas



- 1 | With gas and air regulator.
- 2 | Tube connection of 1/2 inch. Supplied as an accessory.
- 3 | Tube Ø outer: 11 mm. Total height: 165 mm.

Code	Gas type	Pressure	Nominal power	Weight
FFJ534	Natural	18 mbar	0.69 kw	1.6 Kg

Bunsen burner with safety gas cut out



- 1 | Equipped with a flblade detector that will shut off the gas supply within 20 seconds if the flblade is extinguished.
- 2 | With tube connection. Tube Ø outer: 11 mm. Total height: 140 mm.

Code	Gas type	Pressure	Nominal power
FFJ535	Butane	28/37 mbar	0.69 kw
FFJ536	Natural	18 mbar	0.69 kw



▶ FFJ - Burners

▶ Natural gas burners



1 | With approved gas pressure connection 1/2" nut and olive, supplied as an accessory. External tube Ø: 11 mm. Total height: 165 mm.

Code	Gas type	Pressure	Nominal power	Weight
FFJ537	Natural	18 mbar	0.69 kw	1.6 Kg



▶ Blade spreader burner head



1 | Straight form.

Code	Material	For tube of
FFJ538	Stainless steel AISI	11 mm
FFJ539	Tin	11 mm
FFJ540	Stainless steel AISI	13 mm
FFJ541	Tin	13 mm



▶ Teclu Burner



- 1 | With air and gas regulators.
- 2 | Tube Ø outer at its maximum diameter 13 mm. Total height 180 mm.

Code	For
FFJ544	Butane/Propane gas.
FFJ545	Natural gas



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▶ FFL - Tongs for crucibles, capsules

▶ Crucible tong, chromeplated steel



1 | With serrated gland and curved tips to ensure grip.

Code	Total length	Aperture
FFL001	150 mm	20 mm
FFL002	200 mm	28 mm
FFL003	250 mm	32 mm
FFL004	300 mm	32 mm
FFL005	350 mm	32 mm
FFL006	400 mm	40 mm
FFL007	450 mm	40 mm



▶ Crucible tong, stainless steel



1 | With serrated gland and curved tips to ensure grip.

Code	Total length	Aperture
FFL009	200 mm	25 mm
FFL010	250 mm	28 mm
FFL011	300 mm	32 mm



▶ FFL - Tongs for crucibles, capsules

▶ Evaporating dish tongs



1 | For porcelain capsules or other flat-bottomed containers

Code	Total length	Aperture
FFL012	260 mm	65/190 mm

▶ Dish tongs



1 | Made of eletro-bright finished AISI 304 stainless steel.

Code	Total length
FFL501	250 mm

▶ Crucible tongs



1 | Original "J.P.Selecta" design with opposite equilibrium.
2 | Made of Electro-bright finished AISI 304 stainless steel.

Code	Total length
FFL502	400 mm

▶ Beaker tongs



1 | Original "J.P.Selecta" design with opposite equilibrium.
2 | Made of Electrobright finished AISI 304 stainless steel.

Code	For beakers	For diameters	Total length
FFL503	150 to 1000 ml	60 to 100 mm.	450 mm



▶ FFL - Tongs for crucibles, capsules

▶ Crucible tongs



1 | With bow, curved tips. With thermally protected plastic coated handles.

Code	Total length
FFL504	220 mm
FFL505	330 mm



▶ Crucible tongs



1 | With bow, curved tips and flat hinge. Electro-bright AISI 304 stainless steel finish.

Code	Total length
FFL506	200 mm
FFL507	300 mm
FFL508	400 mm
FFL509	500 mm



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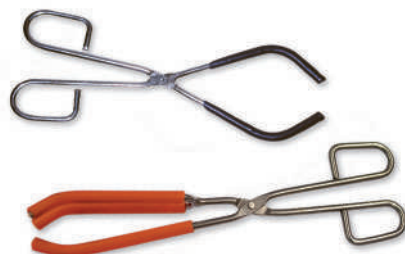
▶ FFN - Tongs for beakers, tubes

▶ Beaker tong, 2 prongs



1 | Made of chromed steel, with PVC tips for a better grip.

Code	Model	Aperture	Length
FFN001	2 prongs	50/150 mm	275 mm
FFN002	3 prongs	0/160 mm	250 mm
FFN003	3 prongs	0/220 mm	300 mm

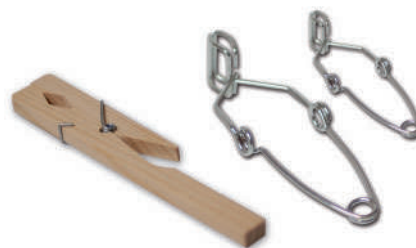


▶ Test tube clamp



1 | For tubes up to 25 mm in diameter.

Code	Model	Length
FFN005	Steel	150 mm
FFN006	Wood	180 mm



▶ Beaker tongs



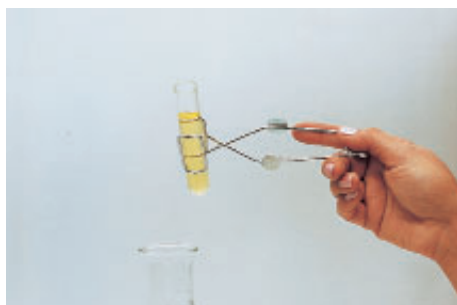
1 | Made of AISI 304 electro-bright finished stainless steel.
2 | Tong tips covered with stabilised glass fibre.

Code	Beakers from	Diameters from
FFN501	150 to 1000 ml.	60 to 100 mm.



FFN - Tongs for beakers, tubes

▶ Test tube tongs



1 | Made of nickel plated steel.

Code	For tubes	Total length
FFN502	30 mm Ø.	145 mm.

▶ Test tube tong, wooden



1 | For tubes from 12 to 25 mm Ø. Total length 180 mm

Code	FFN503

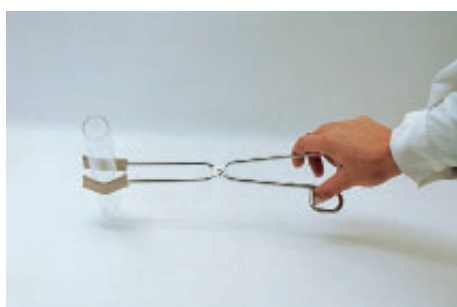
▶ Sterilization tongs



1 | For tubes from 12 to 25 mm Ø. Total length 180 mm

Code	End	Total length
FFN504	Straight	200 mm.
FFN505	Curved	200 mm.

▶ Tongs for flasks and tubes



- 1 | Electro-bright finished AISI 304 stainless steel.
- 2 | For diameters from 15 to 60 mm.
- 3 | Tong tips covered with stabilized glass fibre.

Code	Total length
FFN506	300 mm.
FFN507	400 mm.



FFN - Tongs for beakers, tubes

Tongs for flasks and test tubes



- 1| Sterilization Tongs. Made of AISI 304 electro-bright finished stainless steel.
- 2| For diameters from 25 to 60 mm.
- 3| Tong ends covered with stabilized glass fibre.

Code	Total length
FFN508	300 mm
FFN509	400 mm



Beaker tongs "PROTECVAS"



- 1| Clamps beakers up to 2000 ml.
- 2| With a span from 50 to 120 mm Ø.
- 3| Jaws protected with rubber pads.

Code	Total length
FFN510	300 mm

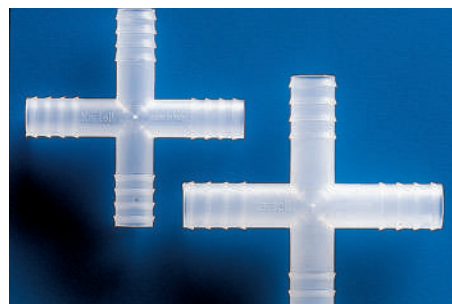


FHB - Connectors

4 way connectors PP

Kartell

Code pack 100	Code pack 10	Ø outer nominal	Ø interior
FHB005	FHB077	3,5 mm	1,5 mm
FHB006	FHB078	6 mm	2,7 mm
FHB007	FHB079	8 mm	4,6 mm
FHB001	FHB080	10 mm	7 mm
FHB002	FHB081	12 mm	8 mm
FHB003	FHB082	13,5 mm	9,5 mm
FHB004	FHB083	15 mm	11,60 mm



L connectors PP

Kartell

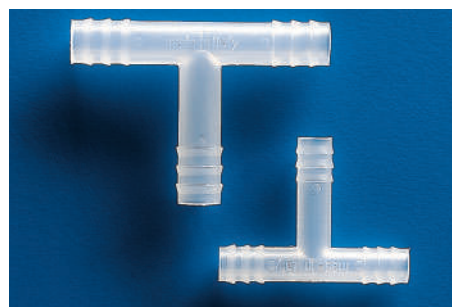
Code pack 100	Code pack 10	Ø outer nominal	Ø interior
FHB012	FHB070	4 mm	1,3 mm
FHB013	FHB071	6 mm	2,5 mm
FHB014	FHB072	8 mm	4,5 mm
FHB008	FHB073	10 mm	6 mm
FHB009	FHB074	12 mm	8 mm
FHB010	FHB075	14 mm	10,5 mm
FHB011	FHB076	16 mm	11,6 mm



T connector PP

Kartell

Code Pack 100	Code Pack 10	Ø outer nominal	Ø interior
FHB017	FHB087	4 mm	1,6 mm
FHB018	FHB088	6 mm	3,7 mm
FHB019	FHB089	8 mm	4,4 mm
FHB015	FHB090	10 mm	6,3 mm
FHB016	FHB091	12 mm	8,2 mm
FHB020	FHB092	14 mm	10 mm
FHB021	FHB093	16 mm	12,1 mm



FHB - Connectors

▶ Y connectors PP



Kartell

Code Pack 100	Code Pack 10	Ø outer nominal	Ø interior
FHB025	FHB107	4-5-6 mm	1,5 mm
FHB026	FHB108	6-7-8 mm	2,7 mm
FHB027	FHB109	8-9-10 mm	4,7 mm
FHB022	FHB110	10-11-12 mm	5,5 mm
FHB023	FHB111	12-13-14 mm	7,6 mm
FHB024	FHB112	14-15-16 mm	9,6 mm

▶ Y connector PP



Kartell

Code Pack 100	Code Pack 10	Ø outer nominal	Ø interior
FHB030	FHB094	4 mm	2,0 mm
FHB031	FHB095	6 mm	2,7 mm
FHB034	FHB096	8 mm	4,6 mm
FHB028	FHB097	10 mm	5,5 mm
FHB029	FHB098	12 mm	7,3 mm
FHB032	FHB099	14 mm	9,7 mm
FHB033	FHB100	16 mm	11,9 mm

▶ Straight connector PP



Kartell

Code Pack 100	Code Pack 10	Ø outer nominal	Ø interior
FHB038	FHB101	4-5-6 mm	2 mm
FHB039	FHB102	6-7-8 mm	3,5 mm
FHB040	FHB103	8-9-10 mm	4,5 mm
FHB035	FHB104	10-11-12 mm	6,5 mm
FHB036	FHB105	12-13-14 mm	8,5 mm
FHB037	FHB106	14-15-16 mm	10,5 mm

▶ Disconnecter PE



Kartell

Code Pack 10	Code Pack 100	Ø outer nominal	Ø interior
FHB042	FHB084	4-5-6 mm	1,6 mm
FHB043	FHB085	6-7-8 mm	2,7 mm
FHB044	FHB086	8-9-10 mm	3,6 mm
FHB045	FHB113	10-11-12 mm	5,5 mm
FHB046	FHB114	12-13-14 mm	7,3 mm
FHB041	FHB115	14-15-16 mm	8,8 mm



FHB - Connectors

▶ Uniquel connectors PP

Kartell

1 | Conical joint with different inlet and outlet diameters

Code Pack 100	Code Pack 10	Ø outer nominal	Ø interior
FHB047	FHB116	4-6-8/10-12 mm	1,6/4,6 mm
FHB048	FHB117	4-6-8/12-14-16 mm	1,6/7,5 mm
FHB049	FHB118	8-10-12/14-16 mm	4,6/7,5 mm



▶ Drying tube, PE

Kartell

- 1 | For tubes with a diameter of 8, 9 and 10 mm.
- 2 | Tools for drying gases.
- 3 | Ø Nominal outside diameter 8-10 mm.

Code	Dim. (Øxlong.)	Total lenght
FHB050	20x100 mm	170 mm
FHB051	20x150 mm	220 mm
FHB052	20x200 mm	270 mm



▶ Connectors, universal PP

VITLAB

1 | Due to its special shape, it can be used for a wide variety of different tubing inner diameters.

Code	For tubing with an inner Ø of
FHB501	5-15 mm



FHD - Clamps

▶ Hoffman

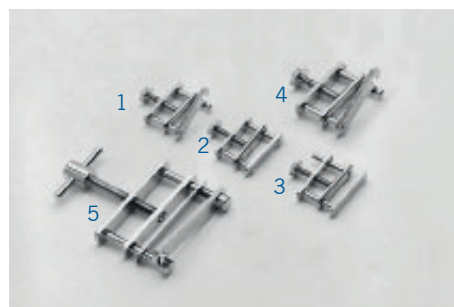
Nahita

1 | Made of nickel-plated metal. They have a compressor screw and a base with two positions; open or closed.

Code	Aperture
FHD001	12 mm
FHD002	17 mm
FHD003	20 mm
FHD004	25 mm
FHD005	30 mm
FHD006	40 mm



Code	N°	Clip	Maximum opening
FHD501	1	Dual, open close	15 mm
FHD502	5	Large, open and close	30 mm
FHD504	3	Open	15 mm
FHD505	2	Closed	15 mm
FHD507	4	Dual medium, open-closed	25 mm



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FHD - Clamps

Mohr



Nahita

Code	Lenght
FHD007	40 mm
FHD012	45 mm
FHD008	50 mm
FHD009	60 mm
FHD010	70 mm
FHD011	80 mm

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SELECTA

Code	Nº	Clamp	Maximum opening
FHD503	6	SS AISI 304 electro bright finish.	70 mm
FHD506	7	Nickel wire.	70 mm

FHG - Valves and indicators

Interception taps, PP y HDPE

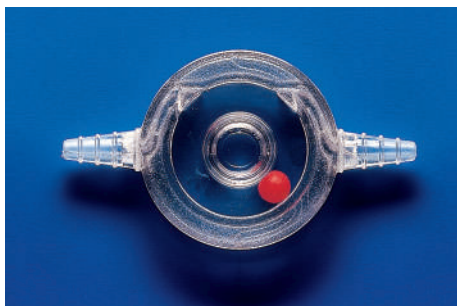


Kartell

1| For low pressure liquids and gases. All have a straight through hole.

Code	Ø outer nominal	Ø interior
FHG004	8 mm	4,9 mm
FHG001	10 mm	7 mm
FHG002	14 mm	10,9 mm
FHG003	16 mm	12,7 mm

Flow indicator



Kartell

- 1| For liquids of 50 mL/min in horizontal position and 140 mL/min in vertical position.
- 2| Minimum air flow 3l/min in horizontal position and 8 l/min in vertical position.
- 3| Avoid the use of corrosive liquids or at temperatures above 50 °C.

Code	Dimensions	Ø outer conexiones
FHG005	102x14x57 mm	6,5 / 10 mm



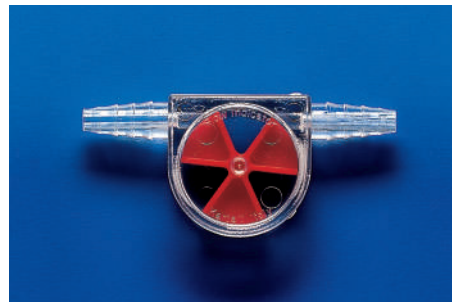
FHG - Valves and indicators

▶ Flow indicator, paddle wheel

Kartell

- 1 | For liquids up to 5 mL/s.
- 2 | Recommended maximum flow rate up to 95 mL/s, maximum pressure 2 bar
- 3 | Avoid the use of corrosive liquids or at temperatures above 85 °C.
- 4 | Can be used with gases.

Code	Dimensions	Ø outer conexiones
FHG006	90x15x40 mm	6 / 11 mm

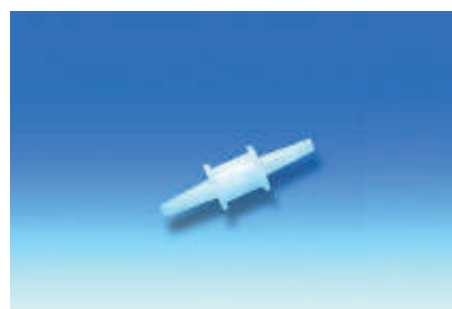

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▶ Non-return valve, PE-HD

VITLAB

- 1 | With valve disc made from FKM. Not suitable for pressure applications.

Code	For tubing with an inner Ø of
FHG502	6-9 mm



FHJ - Tubes for auto-analysers

▶ Tube TAAT Tygon 3350

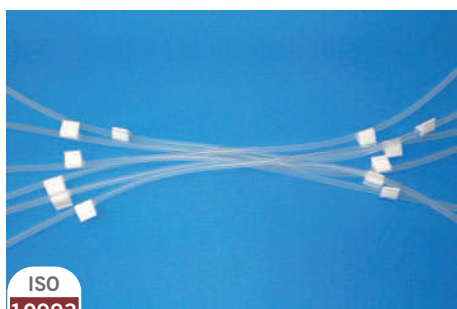
- 1 | Ultra-smooth and hydrophobic interior surface
- 2 | Density: 1.14 - Shore hardness: 50.
- 3 | Temperature from -80 °C to + 200 °C (steam sterilizable).
- 4 | Limited rate of extractable constituents.
- 5 | Complies with USP Class VI, FDA, NSF criteria.
- 6 | Translucent.

Code	N° flanges	Ø inner	Thickness
FHJ531	0	0,51	0,9
FHJ532	0	0,64	0,9
FHJ533	0	0,76	0,85
FHJ534	0	0,89	0,85
FHJ535	0	1,02	0,85
FHJ536	0	1,14	0,85
FHJ537	0	1,3	0,85
FHJ538	0	1,42	0,85
FHJ539	0	1,52	0,85
FHJ540	0	1,65	0,85
FHJ541	0	1,85	0,85
FHJ542	0	2,06	0,85
FHJ543	0	2,29	0,85
FHJ544	0	2,54	0,85
FHJ545	0	2,79	0,85



FHJ - Tubes for auto-analysers

Tube TAAT Tygon 3350



ISO
10993

Code	N° flanges	Ø inner	Thickness	Colour
FHJ501	2	0,51	0,9	orange/yellow
FHJ502	2	0,64	0,9	orange/white
FHJ503	2	0,76	0,85	black/black
FHJ504	2	0,89	0,85	orange/orange
FHJ505	2	1,02	0,85	white/white
FHJ506	2	1,14	0,85	red/red
FHJ507	2	1,3	0,85	grey/grey
FHJ508	2	1,42	0,85	yellow/yellow
FHJ509	2	1,52	0,85	yellow/blue
FHJ510	2	1,65	0,85	blue/blue
FHJ511	2	1,85	0,85	gree/green
FHJ512	2	2,06	0,85	purple/purple
FHJ513	2	2,29	0,85	purple/black
FHJ514	2	2,54	0,85	purple/orange
FHJ515	2	2,79	0,85	purple/white
FHJ516	3	0,51	0,9	orange/orange/yellow
FHJ517	3	0,64	0,9	orange/orange/white
FHJ518	3	0,76	0,85	black/black/black
FHJ519	3	0,89	0,85	orange/orange/orange
FHJ520	3	1,02	0,85	white/white/white
FHJ521	3	1,14	0,85	red/red/red
FHJ522	3	1,3	0,85	grey/grey/grey
FHJ523	3	1,42	0,85	yellow/yellow/yellow
FHJ524	3	1,52	0,85	yellow/yellow/blue
FHJ525	3	1,65	0,85	blue/blue/blue
FHJ526	3	1,85	0,85	green/green/green
FHJ527	3	2,06	0,85	purple/purple/purple
FHJ528	3	2,29	0,85	purple/purple/black
FHJ529	3	2,54	0,85	purple/purple/orange
FHJ530	3	2,79	0,85	purple/purple/white

Tube TAAT Tygon F-4040-A



- 1 | Suitable for use with hydrocarbons and industrial lubricants
- 2 | Density: 1.26 - Shore hardness: 57, temperature from -37 °C to + 74 °C.
- 3 | Very flexible, translucent yellow, very low gas permeability

Code	N° flanges	Ø inner	Thickness	Colour
FHJ580	0	0,13	0,9	-
FHJ564	0	0,25	0,9	-
FHJ575	0	0,25	0,9	-
FHJ584	0	0,38	0,9	-
FHJ565	0	0,51	0,9	-
FHJ576	0	0,51	0,9	-
FHJ595	0	0,51	0,9	-
FHJ585	0	0,64	0,9	-
FHJ566	0	0,89	0,85	-
FHJ577	0	0,89	0,85	-
FHJ596	0	0,89	0,85	-
FHJ586	0	1,02	0,85	-
FHJ567	0	1,14	0,85	-
FHJ568	0	1,42	0,85	-
FHJ578	0	1,42	0,85	-
FHJ569	0	1,52	0,85	-
FHJ579	0	1,52	0,85	-
FHJ588	0	1,52	0,85	-
FHJ570	0	1,85	0,85	-
FHJ571	0	2,06	0,85	-
FHJ587	0	2,06	0,85	-
FHJ731	0	2,06	0,85	-
FHJ572	0	2,29	0,85	-
FHJ581	0	2,29	0,85	-
FHJ573	0	2,54	0,85	-
FHJ582	0	2,54	0,85	-
FHJ574	0	2,79	0,85	-
FHJ583	0	2,79	0,85	-
FHJ589	0	2,79	0,85	-



FHJ - Tubes for auto-analysers

▶ Tube TAAT Tygon F-4040-A



- 1 | Suitable for use with hydrocarbons and industrial lubricants
- 2 | Density: 1.26 - Shore hardness: 57, temperature from -37 °C to + 74 °C.
- 3 | Very flexible, translucent yellow, very low gas permeability

Code	N° flanges	Ø inner	Thickness	Colour
FHJ546	2	0,19	0,9	orange/red
FHJ547	2	0,25	0,9	orange/blue
FHJ548	2	0,38	0,9	orange/green
FHJ590	2	0,38	0,9	orange/green
FHJ549	2	0,51	0,9	orange/yellow
FHJ550	2	0,64	0,9	orange/white
FHJ551	2	0,76	0,85	black/black
FHJ597	2	0,76	0,85	black/black
FHJ552	2	0,89	0,85	orange/orange
FHJ553	2	1,02	0,85	white/white
FHJ554	2	1,14	0,85	red/red
FHJ591	2	1,14	0,85	red/red
FHJ555	2	1,3	0,85	grey/grey
FHJ556	2	1,42	0,85	yellow/yellow
FHJ563	2	1,52	0,85	yellow/blue
FHJ592	2	1,52	0,85	yellow/blue
FHJ557	2	1,65	0,85	blue/blue
FHJ558	2	1,85	0,85	gree/green
FHJ559	2	2,06	0,85	purple/purple
FHJ593	2	2,06	0,85	purple/purple
FHJ560	2	2,29	0,85	purple/black
FHJ561	2	2,54	0,85	purple/black
FHJ562	2	2,79	0,85	purple/white
FHJ594	2	2,79	0,85	purple/white
FHJ649	3	0,19	0,9	orange/orange/red
FHJ650	3	0,25	0,9	orange/orange/blue
FHJ651	3	0,38	0,9	orange/orange/green
FHJ652	3	0,51	0,9	orange/orange/yellow
FHJ653	3	0,64	0,9	orange/orange/white
FHJ654	3	0,76	0,85	black/black/black
FHJ655	3	0,89	0,85	orange/orange/orange
FHJ656	3	1,02	0,85	white/white/white
FHJ657	3	1,14	0,85	red/red/red
FHJ658	3	1,3	0,85	grey/grey/grey
FHJ659	3	1,42	0,85	yellow/yellow/yellow
FHJ666	3	1,52	0,85	yellow/yellow/blue
FHJ660	3	1,65	0,85	blue/blue/blue
FHJ661	3	1,85	0,85	green/green/green
FHJ662	3	2,06	0,85	purple/purple/purple
FHJ663	3	2,29	0,85	purple/purple/black
FHJ664	3	2,54	0,85	purple/purple/orange
FHJ665	3	2,79	0,85	purple/purple/white



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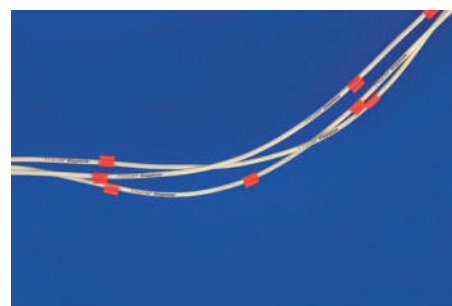
▶ Tube TAAT Tygon 2765-175 MHLL



- 1 | Excellent resistance to organic solvents.
- 2 | Plasticizer free interior.
- 3 | Conforms to USP Class VI, FDA and NSF criteria.
- 4 | Temperature from -70 °C to + 74 °C.

Code	N° flanges	Ø inner	Thickness	Colour
FHJ697	2	0,38	0,9	orange/green
FHJ698	2	0,76	0,85	black/black
FHJ699	2	1,14	0,85	red/red
FHJ702	2	1,52	0,85	yellow/blue
FHJ700	2	2,06	0,85	purple/purple
FHJ701	2	2,79	0,85	purple/white
FHJ703	2	0,38	0,9	orange/green
FHJ704*	2	0,76	0,85	black/black
FHJ705*	2	1,14	0,85	red/red
FHJ708*	2	1,52	0,85	yellow/blue
FHJ706*	2	2,06	0,85	purple/purple
FHJ707*	2	2,79	0,85	purple/white

*Micro cassettes.



FHJ - Tubes for auto-analysers

Tube TAAT Pharmed BPT



- 1 | Compatible with peristaltic pumps
- 2 | Very good resistance to alkalis.
- 3 | Inert in taste and smell. Beige colour.
- 4 | Meets the requirements of USP 88 , Biological Reactivity Test, In Vivo – Class VI
- 5 | Density: 0.98 - Shore hardness: 61.
- 6 | Temperature from -60 ° C to + 135 ° C (sterilizable with steam).
- 7 | Opaque to visible light and UV.

Code	N° flanges	Ø inner	Thickness	Colour
FHJ615	0	0,25	0,9	-
FHJ616	0	0,38	0,9	-
FHJ617	0	0,51	0,9	-
FHJ618	0	0,64	0,9	-
FHJ619	0	0,76	0,85	-
FHJ620	0	0,89	0,85	-
FHJ621	0	1,02	0,85	-
FHJ622	0	1,14	0,85	-
FHJ623	0	1,3	0,85	-
FHJ624	0	1,42	0,85	-
FHJ631	0	1,52	0,85	-
FHJ625	0	1,65	0,85	-
FHJ626	0	1,85	0,85	-
FHJ627	0	2,06	0,85	-
FHJ628	0	2,29	0,85	-
FHJ629	0	2,54	0,85	-
FHJ630	0	2,79	0,85	-
FHJ599	2	0,38	0,9	orange/green
FHJ603	2	0,89	0,85	orange/orange
FHJ604	2	1,02	0,85	white/white
FHJ598	2	1,02	0,85	orange/blue
FHJ605	2	1,14	0,85	red/red
FHJ606	2	1,3	0,85	grey/grey
FHJ607	2	1,42	0,85	yellow/yellow
FHJ600	2	1,52	0,85	orange/yellow
FHJ614	2	1,52	0,85	yellow/blue
FHJ608	2	1,65	0,85	blue/blue
FHJ609	2	1,85	0,85	gree/green
FHJ610	2	2,06	0,85	purple/purple
FHJ601	2	2,06	0,85	orange/white
FHJ611	2	2,29	0,85	purple/black
FHJ612	2	2,54	0,85	purple/orange
FHJ613	2	2,79	0,85	purple/white
FHJ602	2	2,79	0,85	black/black
FHJ632	3	0,25	0,9	orange/orange/blue
FHJ633	3	0,38	0,9	orange/orange/green
FHJ634	3	0,51	0,9	orange/orange/yellow
FHJ635	3	0,64	0,9	orange/orange/white
FHJ636	3	0,76	0,85	black/black/black
FHJ637	3	0,89	0,85	orange/orange/orange
FHJ638	3	1,02	0,85	white/white/white
FHJ639	3	1,14	0,85	red/red/red
FHJ640	3	1,3	0,85	grey/grey/grey
FHJ641	3	1,42	0,85	yellow/yellow/yellow
FHJ648	3	1,52	0,85	yellow/yellow/blue
FHJ642	3	1,65	0,85	blue/blue/blue
FHJ643	3	1,85	0,85	green/green/green
FHJ644	3	2,06	0,85	purple/purple/purple
FHJ645	3	2,29	0,85	purple/purple/black
FHJ646	3	2,54	0,85	purple/purple/orange
FHJ647	3	2,79	0,85	purple/purple/white



FHJ - Tubes for auto-analysers

▶ Tube TAAT Fluran F-5500-1



- 1| Excellent resistance to corrosive products, oils, essences and solvents
- 2| Resists continuous use at +204 °C.
- 3| Resistant to ozone, sunlight. Opaque, black colour.
- 4| Density = 1.9 - Shore hardness = 60.
- 5| Temperature from -51 °C to + 204 °C.

Code	N° flanges	Ø inner	Thickness	Colour
FHJ667	2	0,51	0,9	orange/yellow
FHJ668	2	0,64	0,9	orange/white
FHJ669	2	0,76	0,85	black/black
FHJ670	2	0,89	0,85	orange/orange
FHJ671	2	1,02	0,85	white/white
FHJ672	2	1,14	0,85	red/red
FHJ673	2	1,3	0,85	grey/grey
FHJ674	2	1,42	0,85	yellow/yellow
FHJ681	2	1,52	0,85	yellow/blue
FHJ675	2	1,65	0,85	blue/blue
FHJ676	2	1,85	0,85	gree/green
FHJ677	2	2,06	0,85	purple/purple
FHJ678	2	2,29	0,85	purple/black
FHJ679	2	2,54	0,85	purple/orange
FHJ680	2	2,79	0,85	purple/white
FHJ682	3	0,51	0,9	orange/orange/yellow
FHJ683	3	0,64	0,9	orange/orange/white
FHJ684	3	0,76	0,85	black/black/black
FHJ685	3	0,89	0,85	orange/orange/orange
FHJ686	3	1,02	0,85	white/white/white
FHJ687	3	1,14	0,85	red/red/red
FHJ688	3	1,3	0,85	grey/grey/grey
FHJ689	3	1,42	0,85	yellow/yellow/yellow
FHJ696	3	1,52	0,85	yellow/yellow/blue
FHJ690	3	1,65	0,85	blue/blue/blue
FHJ691	3	1,85	0,85	green/green/green
FHJ692	3	2,06	0,85	purple/purple/purple
FHJ693	3	2,29	0,85	purple/purple/black
FHJ694	3	2,54	0,85	purple/purple/orange
FHJ695	3	2,79	0,85	purple/purple/white



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▶ Tube TAAT Tygon MHSL 2001



- 1| Made of PVC .
- 2| Free of plasticizers and oils.
- 3| Very high flexibility.
- 4| Temperature resistance -77 +57°C.
- 5| Conforms to FDA criteria.
- 6| Transparent.
- 7| High resistance to acids, bases, alcohols and ketones.

Code	N° flanges	Ø inner	Thickness	Colour
FHJ715	0	0,38	0,9	-
FHJ716	0	0,64	0,9	-
FHJ717	0	1,02	0,85	-
FHJ720	0	1,52	0,85	-
FHJ718	0	2,06	0,85	-
FHJ719	0	2,79	0,85	-
FHJ709	2	0,38	0,9	orange/green
FHJ710	2	0,64	0,9	orange/white
FHJ711	2	1,02	0,85	white/white
FHJ714	2	1,52	0,85	yellow/blue
FHJ712	2	2,06	0,85	purple/purple
FHJ713	2	2,79	0,85	purple/white
FHJ721*	2	0,38	0,9	orange/green
FHJ722*	2	0,64	0,9	orange/white
FHJ723*	2	1,02	0,85	white/white
FHJ730*	2	1,52	0,85	yellow/blue
FHJ724*	2	2,06	0,85	purple/purple
FHJ725*	2	2,79	0,85	purple/white



FHJ - Tubes for auto-analysers

Tube TAAT Tygon LMT-55



- 1 | Free of DEHP and BPA.
- 2 | Low gas permeability.
- 3 | Temperature resistance: -50 to +74 °C.
- 4 | Hardness 55.
- 5 | High chemical resistance.
- 6 | Transparent.

Code	N° flanges	Ø inner	Ø outer	Colour
FHJ732	0	0.13	0.9	-
FHJ733	0	0.19	0.9	-
FHJ734	0	0.25	0.9	-
FHJ735	0	0.38	0.9	-
FHJ736	0	0.51	0.9	-
FHJ737	0	0.57	0.9	-
FHJ738	0	0.64	0.9	-
FHJ739	0	0.76	0.85	-
FHJ740	0	0.89	0.85	-
FHJ741	0	0.95	0.85	-
FHJ742	0	1.02	0.85	-
FHJ744	0	1.14	0.85	-
FHJ745	0	1.22	0.85	-
FHJ746	0	1.3	0.85	-
FHJ747	0	1.42	0.85	-
FHJ748	0	1.52	0.85	-
FHJ749	0	1.65	0.85	-
FHJ750	0	1.75	0.85	-
FHJ751	0	1.85	0.85	-
FHJ752	0	2.06	0.85	-
FHJ753	0	2.29	0.85	-
FHJ754	0	2.54	0.85	-
FHJ755	0	2.79	0.85	-
FHJ756	0	3.17	0.85	-
FHJ757	2	0.13	0.9	orange/black
FHJ758	2	0.19	0.9	orange/red
FHJ759	2	0.25	0.9	orange/blue
FHJ760	2	0.38	0.9	orange/green
FHJ761	2	0.44	0.9	green/yellow
FHJ762	2	0.51	0.9	orange/yellow
FHJ763	2	0.57	0.9	white/yellow
FHJ764	2	0.64	0.9	orange/white
FHJ765	2	0.76	0.85	black/black
FHJ766	2	0.89	0.85	orange/orange
FHJ767	2	0.95	0.85	white/black
FHJ768	2	1.02	0.85	white/white
FHJ769	2	1.09	0.85	white/red
FHJ770	2	1.14	0.85	red/red
FHJ771	2	1.22	0.85	rojo/grey
FHJ772	2	1.3	0.85	grey/grey
FHJ773	2	1.42	0.85	yellow/yellow
FHJ774	2	1.52	0.85	yellow/blue
FHJ775	2	1.65	0.85	blue/blue
FHJ776	2	1.75	0.85	azul/verde
FHJ777	2	1.85	0.85	gree/green
FHJ778	2	2.06	0.85	purple/purple
FHJ779	2	2.29	0.85	purple/black
FHJ780	2	2.54	0.85	purple/orange
FHJ781	2	2.79	0.85	purple/white
FHJ782	2	3.17	0.85	black/white
FHJ783	3	0.13	0.9	orange/orange/black
FHJ784	3	0.19	0.9	orange/orange/red
FHJ785	3	0.25	0.9	orange/orange/blue
FHJ786	3	0.38	0.9	orange/orange/green
FHJ787	3	0.44	0.9	gree/green/amarillo
FHJ788	3	0.51	0.9	orange/orange/yellow
FHJ789	3	0.57	0.9	white/white/yellow
FHJ791	3	0.76	0.85	black/black/black
FHJ792	3	0.89	0.85	orange/orange/orange
FHJ793	3	0.95	0.85	white/white/black



FHJ - Tubes for auto-analysers



Tube TAAT Tygon LMT-55

Code	N° flanges	Ø inner	Ø outer	Colour
FHJ794	3	1.02	0.85	white/white/white
FHJ795	3	1.09	0.85	white/white/red
FHJ796	3	1.14	0.85	red/red/red
FHJ797	3	1.22	0.85	red/red/gris
FHJ798	3	1.3	0.85	grey/grey/grey
FHJ799	3	1.42	0.85	yellow/yellow/yellow
FHJ800	3	1.52	0.85	yellow/yellow/blue
FHJ801	3	1.65	0.85	blue/blue/blue
FHJ802	3	1.75	0.85	blue/blue/green
FHJ803	3	1.85	0.85	green/green/green
FHJ804	3	2.06	0.85	purple/purple/purple
FHJ805	3	2.29	0.85	purple/purple/black
FHJ806	3	2.54	0.85	purple/purple/orange
FHJ807	3	2.79	0.85	purple/purple/white
FHJ808	3	3.17	0.85	black/black/white



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Tube TAAT E-LFL high precision longlife



- 1 | Density: 1.16 - Shore hardness: 56, temperature from -54 °C to + 74 °C.
- 2 | Complies with USP Class VI and FDA criteria
- 3 | Low generation of detachable particles. Transparent.

Code	N° flanges	Ø inner	Ø outer	Colour
FHJ809	2	0.25	0.9	orange/blue
FHJ810	2	0.38	0.9	orange/green
FHJ811	2	0.51	0.9	orange/yellow
FHJ812	2	0.64	0.9	orange/white
FHJ813	2	0.76	0.85	black/black
FHJ814	2	0.89	0.85	orange/orange
FHJ815	2	1.02	0.85	white/white
FHJ816	2	1.14	0.85	red/red
FHJ817	2	1.3	0.85	grey/grey
FHJ818	2	1.42	0.85	yellow/yellow
FHJ820	2	1.65	0.85	blue/blue
FHJ821	2	1.85	0.85	gree/green
FHJ822	2	2.06	0.85	purple/purple
FHJ823	2	2.29	0.85	purple/black
FHJ824	2	2.79	0.85	purple/white
FHJ825	2	2.54	0.85	purple/orange
FHJ826	3	0.25	0.9	orange/blue
FHJ827	3	0.38	0.9	orange/orange/green
FHJ828	3	0.51	0.9	orange/orange/yellow
FHJ829	3	0.64	0.9	orange/orange/white
FHJ830	3	0.76	0.85	black/black/black
FHJ831	3	0.89	0.85	orange/orange/orange
FHJ832	3	1.02	0.85	white/white/white
FHJ833	3	1.14	0.85	red/red/red
FHJ834	3	1.3	0.85	grey/grey/grey
FHJ835	3	1.42	0.85	yellow/yellow/yellow
FHJ836	3	1.52	0.85	yellow/yellow/blue
FHJ837	3	1.65	0.85	blue/blue/blue
FHJ838	3	1.85	0.85	green/green/green
FHJ839	3	2.06	0.85	purple/purple/purple
FHJ840	3	2.29	0.85	purple/purple/black
FHJ841	3	2.54	0.85	purple/purple/orange
FHJ842	3	2.79	0.85	purple/purple/white



FHL - Tubing for peristaltic pumps

▶ Tube TYGON® Pharmed BTP



- 1 | Colour beige, high chemical resistance.
- 2 | Density= 0,98- Hardness=64° Shore, thermoweldable and thermodeformable.
- 3 | Resists temperature from -40°C to +135°C (sterilizable by steam and gamma radiation).
- 4 | Meets the requirements of USP 88 , Biological Reactivity Test, In Vivo – Class VI

Code	Ø inner	Ø outer	Thickness	Reel
FHL001	0.5 mm	3.7 mm	1,6 mm	7.5 m
FHL002	0.8 mm	4.0 mm	1,6 mm	7.5 m
FHL003	1.6 mm	3.2 mm	1,6 mm	7.5 m
FHL004	1.6 mm	4.8 mm	1,6 mm	7.5 m
FHL005	2.4 mm	5.6 mm	1,6 mm	7.5 m
FHL006	3.2 mm	4.8 mm	0,8 mm	7.5 m
FHL007	3.2 mm	6.4 mm	1,6 mm	7.5 m
FHL008	4.8 mm	8.0 mm	1,6 mm	7.5 m
FHL009	6.35 mm	11.15 mm	1,6 mm	7.5 m
FHL010	6.4 mm	12.7 mm	2,4 mm	7.5 m
FHL011	6.4 mm	9.5 mm	3,2 mm	7.5 m
FHL012	8.0 mm	11.1 mm	1,6 mm	7.5 m
FHL013	9.5 mm	12.7 mm	1,6 mm	7.5 m
FHL014	9.5 mm	14.3 mm	3,2 mm	7.5 m
FHL015	9.5 mm	15.9 mm	3,2 mm	7.5 m
FHL016	12.7 mm	19.1 mm	3,2 mm	7.5 m
FHL017	19.0 mm	25.4 mm	3,2 mm	7.5 m
FHL018	25.9 mm	22.2 mm	3,2 mm	7.5 m

▶ Tube NORPRENE® A-60-G



- 1 | Very good chemical and abrasion resistance
- 2 | Density= 0,98 - Shore hardness=61.
- 3 | Temperature from -60°C to +135°C.
- 4 | Thermoweldable and thermodeformable.
- 5 | Low gas permeability compared to rubber pipes.

Code	Ø inner	Ø outer	Thickness	Reel
FHL019	1,60 mm	4,80 mm	1,60mm	15 m
FHL020	3,20 mm	6,40 mm	1,60mm	15 m
FHL021	3,20 mm	9,60 mm	3,20mm	15 m
FHL022	4,80 mm	8,00 mm	1,60mm	15 m
FHL023	4,80 mm	9,60 mm	2,40mm	15 m
FHL024	4,80 mm	14,40 mm	4,80mm	15 m
FHL025	6,40 mm	9,60 mm	1,60mm	15 m
FHL026	6,40 mm	11,20 mm	2,40mm	15 m
FHL027	6,40 mm	12,80 mm	3,20mm	15 m
FHL028	6,40 mm	16,00 mm	4,80mm	15 m
FHL029	8,00 mm	11,20 mm	1,60mm	15 m
FHL030	8,00 mm	12,80 mm	2,40mm	15 m
FHL031	8,00 mm	20,8 mm	6,40mm	15 m
FHL032	9,50 mm	12,70 mm	1,60mm	15 m
FHL033	9,50 mm	14,30 mm	2,40mm	15 m
FHL034	9,50 mm	15,90 mm	3,20mm	15 m
FHL035	11,10 mm	14,30 mm	1,60mm	15 m
FHL036	12,70 mm	15,90 mm	1,60mm	15 m
FHL037	12,70 mm	17,50 mm	2,40mm	15 m
FHL038	12,70 mm	19,10 mm	3,20mm	15 m
FHL039	15,90 mm	20,70 mm	2,40mm	15 m
FHL040	15,90 mm	22,30 mm	3,20mm	15 m
FHL041	19,00 mm	24,40 mm	3,20mm	15 m
FHL042	25,40 mm	31,80 mm	3,20mm	15 m

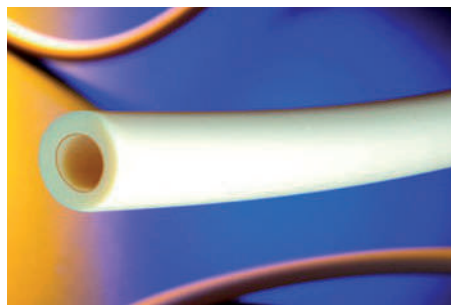


FHL - Tubing for peristaltic pumps

▶ Tube Norprene Chemica



Code	Ø inner	Ø outer	Thickness
FHL043	3,20 mm	6,40 mm	1,60 mm
FHL044	4,80 mm	8,00 mm	1,60 mm
FHL045	6,40 mm	9,60 mm	1,60 mm
FHL046	9,50 mm	12,70 mm	1,60 mm
FHL047	12,70 mm	19,10 mm	3,20 mm



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▶ Tube Tygoprene XL-60



Code	Ø inner	Ø outer	Thickness
FHL048	1,60 mm	4,80 mm	1,60 mm
FHL049	3,20 mm	6,40 mm	1,60 mm
FHL050	4,80 mm	8,00 mm	1,60 mm
FHL051	6,40 mm	9,60 mm	1,60 mm
FHL052	8,00 mm	11,20 mm	1,60 mm
FHL053	9,50 mm	12,70 mm	3,20 mm
FHL054	12,70 mm	19,10 mm	3,20 mm
FHL055	15,90 mm	22,30 mm	3,20 mm
FHL056	19,00 mm	25,40 mm	3,20 mm



▶ Tube NORPRENE® A-60FIB

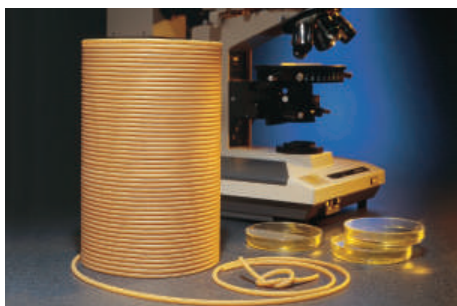


Code	Ø inner	Ø outer	Thickness
FHL057	6,40 mm	12,80 mm	3,20 mm
FHL058	9,5 mm	15,90 mm	3,20 mm
FHL059	12,70 mm	19,10 mm	3,20 mm
FHL060	15,90 mm	22,30 mm	3,20 mm
FHL061	19,00 mm	26,90 mm	3,95 mm
FHL062	25,40 mm	34,90 mm	4,70 mm



FHN - Tubing for laboratory

▶ Tube beige rubber



- 1 | Density= 1,07 - Shore hardness A= 50 ±5.
- 2 | Temperature from -30 °C to +70 °C (humid heat)

Code	Ø inner	Ø outer	Thickness	Reel
FHN006	18.0 mm	24.0 mm	3,0 mm	25 m
FHN007	20.0 mm	27.0 mm	3,5 mm	25 m
FHN008	20.0 mm	30.0 mm	5,0 mm	25 m
FHN009	25.0 mm	35.0 mm	5,0 mm	10 m
FHN010	30.0 mm	40.0 mm	5,0 mm	10 m
FHN011	35.0 mm	45.0 mm	5,0 mm	10 m
FHN012	40.0 mm	50.0 mm	5,0 mm	10 m
FHN013	50.0 mm	60.0 mm	5,0 mm	10 m

▶ Tube red rubber



- 1 | Red natural rubber, resistant to abrasion.
- 2 | Density= 1,13 -Shore hardness A= 45±5.
- 3 | Temperature from -30 °C to +70 °C (+ 125 °C humid heat).
- 4 | Elasticity over 400%.

Code	Ø inner	Ø outer	Thickness	Reel
FHN018	4.0 mm	6.0 mm	1,0 mm	10 m
FHN021	5.0 mm	8.0 mm	1,5 mm	10 m
FHN022	6.0 mm	9.0 mm	1,5 mm	10 m
FHN023	6.0 mm	10.0 mm	2,0 mm	10 m
FHN028	10.0 mm	14.0 mm	2,0 mm	10 m
FHN029	12.0 mm	17.0 mm	2,5 mm	10 m
FHN030	12.0 mm	18.0 mm	3,0 mm	10 m
FHN032	1.0 mm	3.0 mm	1,0 mm	25 m
FHN033	2.0 mm	4.0 mm	1,0 mm	25 m
FHN034	3.0 mm	5.0 mm	1,0 mm	25 m
FHN035	3.0 mm	6.0 mm	1,5 mm	25 m
FHN036	4.0 mm	6.0 mm	1,0 mm	25 m
FHN037	4.0 mm	7.0 mm	1,5 mm	25 m
FHN040	6.0 mm	9.0 mm	1,5 mm	25 m
FHN041	6.0 mm	10.0 mm	2,0 mm	25 m
FHN042	7.0 mm	10.0 mm	1,5 mm	25 m
FHN043	7.0 mm	11.0 mm	2,0 mm	25 m
FHN044	8.0 mm	12.0 mm	2,0 mm	25 m
FHN045	9.0 mm	13.0 mm	2,0 mm	25 m
FHN046	10.0 mm	14.0 mm	2,0 mm	25 m
FHN047	12.0 mm	17.0 mm	2,5 mm	25 m
FHN048	12.0 mm	18.0 mm	3,0 mm	25 m
FHN049	16.0 mm	22.0 mm	3,0 mm	25 m



▶ FHN - Tubing for laboratory

▶ Tube red rubber for aspiration



- 1| Red natural rubber, resistant to abrasion.
- 2| Density= 1,13 -Shore hardness A= 45±5.
- 3| Temperature from -30 °C to +70 °C (+ 125 °C humid heat).
- 4| Elasticity over 400%.

Code	Ø inner	Ø outer	Thickness	Reel
FHN058	10.0 mm	20.0 mm	5,0 mm	10 m
FHN060	15.0 mm	30.0 mm	7,5 mm	10 m
FHN063	6.0 mm	12.0 mm	3,0 mm	25 m
FHN064	6.0 mm	16.0 mm	5,0 mm	25 m
FHN067	8.0 mm	14.0 mm	3,0 mm	25 m
FHN068	8.0 mm	18.0 mm	5,0 mm	25 m
FHN069	10.0 mm	20.0 mm	5,0 mm	25 m
FHN070	12.0 mm	24.0 mm	6,0 mm	25 m



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▶ Tube red rubber for vacuum



- 1| Red natural rubber, resistant to abrasion.
- 2| Density= 1,13 -Shore hardness A= 45±5.
- 3| Temperature from -30 °C to +70 °C (+ 125 °C humid heat).
- 4| Elasticity over 400%.

Code	Ø inner	Ø outer	Thickness	Reel
FHN071	4.0 mm	14.4 mm	5,00 mm	10 m
FHN073	6.0 mm	18.0 mm	6,00 mm	10 m
FHN074	8.0 mm	20.0 mm	10,0 mm	10 m
FHN075	10.0 mm	30.0 mm	10,0 mm	10 m
FHN076	15.0 mm	35.0 mm	10,0 mm	10 m
FHN077	20.0 mm	45.0 mm	12,5 mm	10 m
FHN079	5.0 mm	15.0 mm	5,0 mm	25 m
FHN080	6.0 mm	18.0 mm	6,0 mm	25 m
FHN081	8.0 mm	20.0 mm	6,0 mm	25 m



▶ Orange tubing K32

Kartell

- 1| Used to transfer non-corrosive gases or liquids, acids of medium concentration.
- 2| Temperature: -35 °C/+70 °C.

Code	Dimensions	Reel
FHN082	3x5 mm	10 m
FHN083	4x7 mm	10 m
FHN084	5x8 mm	10 m
FHN085	6x12 mm	10 m
FHN086	6x9 mm	10 m
FHN087	8x12 mm	10 m
FHN088	8x13 mm	10 m
FHN089	10x14 mm	10 m
FHN090	12x17 mm	10 m



FHN - Tubing for laboratory

Vacuum rubber tubing k120



Kartell

- 1| Fabric impression surface, suitable for air, water, medium concentration acid and alkaline solutions, abrasive products, oxygenated solvents.
- 2| Temperature: -40 °C/+70 °C.

Code	Dimensions	Reel
FHN091	5x15 mm	6 m
FHN092	6x18 mm	6 m
FHN093	8x16 mm	6 m
FHN094	12x21 mm	6 m

Tube latex



- 1| It can be sterilized with moist heat.
- 2| Density= 0,98 -Shore hardness A= 40±5.
- 3| Temperature from -35 °C to +70 °C (+ 120 °C humid heat).
- 4| Elasticity over 500%.

Code	Ø inner	Ø outer	Thickness	Reel
FHN098*	4.0 mm	8.0 mm	2,0 mm	10 m
FHN102	6.0 mm	9.0 mm	1,5 mm	10 m
FHN114	18.0 mm	27.0 mm	3,5 mm	10 m
FHN115	2.0 mm	4.0 mm	1,0 mm	50 m
FHN116	3.0 mm	5.0 mm	1,0 mm	50 m
FHN117	4.0 mm	6.0 mm	1,0 mm	50 m
FHN118	4.0 mm	7.0 mm	1,5 mm	50 m
FHN120	5.0 mm	8.0 mm	1,5 mm	50 m
FHN121	5.0 mm	10.0 mm	2,5 mm	50 m
FHN122	6.0 mm	9.0 mm	1,5 mm	50 m
FHN123	6.0 mm	10.0 mm	2,0 mm	50 m
FHN124	7.0 mm	10.0 mm	1,5 mm	25 m
FHN125	7.0 mm	11.0 mm	2,0 mm	25 m
FHN126	7.0 mm	13.0 mm	3,0 mm	25 m
FHN127	8.0 mm	12.0 mm	2,0 mm	25 m
FHN128	8.0 mm	16.0 mm	4,0 mm	25 m
FHN129	10.0 mm	14.0 mm	2,0 mm	25 m
FHN130	10.0 mm	15.0 mm,	2,5 mm	25 m
FHN131	12.0 mm	17.0 mm	2,5 mm	25 m
FHN132	15.0 mm	21.0 mm	3,0 mm	25 m
FHN133	18.0 mm	24.0 mm	3,0 mm	25 m
FHN134	20.0 mm	27.0 mm	3,5 mm	25 m

* Codes disponibles hasta fin de existencias



FHN - Tubing for laboratory

▶ Tube latex

Kartell

- 1 | Smooth and transparent surface, density: 0.92.
- 2 | Autoclavable.

Code	Dimensions	Reel
FHN135	4x7 mm	10 m
FHN136	6x9 mm	10 m
FHN137	8x12 mm	10 m
FHN138	12x17 mm	10 m



▶ Tube Versilic®



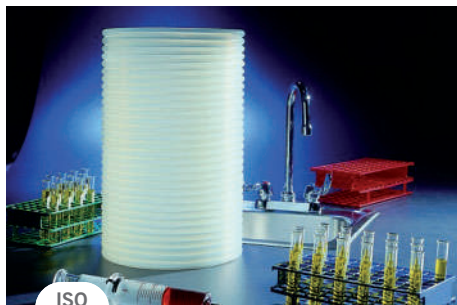
- 1 | High purity translucent silicone. Biologically neutral (USP XXIII class VI).
- 2 | Manufactured according to GMP.
- 3 | According to European Pharmacopoeia tests (2nd edition).
- 4 | Density: 1,2 - Shore hardness : A=60±5.
- 5 | Temperature - 60 °C to +200 °C.
- 6 | Conforms to FDA criteria.

Code	Ø inner	Ø outer	Thickness	Reel
FHN139	3.0 mm	5.0 mm	1.0 mm	10 m
FHN142	4.0 mm	8.0 mm	2.0 mm	10 m
FHN144	5.0 mm	10.0 mm	2.5 mm	10 m
FHN145	6.0 mm	9.0 mm	1.5 mm	10 m
FHN147	6.0 mm	12.0 mm	3.0 mm	10 m
FHN153	8.0 mm	16.0 mm	4.0 mm	10 m
FHN155	10.0 mm	16.0 mm	3.0 mm	10 m
FHN157	18.0 mm	24.0 mm	3.0 mm	10 m
FHN158	20.0 mm	27.0 mm	3.5 mm	10 m
FHN159	25.0 mm	35.0 mm	5.0 mm	10 m
FHN160	30.0 mm	40.0 mm	5.0 mm	10 m
FHN161	40.0 mm	50.0 mm	5.0 mm	10 m
FHN162	50.0 mm	60.0 mm	5.0 mm	10 m
FHN163	4.0 mm	7.0 mm	4.5 mm	25 m
FHN164	4.0 mm	8.0 mm	2.0 mm	25 m
FHN165	4.0 mm	10.0 mm	3.0 mm	25 m
FHN166	5.0 mm	7.0 mm	1.0 mm	25 m
FHN167	5.0 mm	8.0 mm	1.5 mm	25 m
FHN168	5.0 mm	9.0 mm	2.0 mm	25 m
FHN169	5.0 mm	10.0 mm	2.5 mm	25 m
FHN170	6.0 mm	8.0 mm	1.0 mm	25 m
FHN171	6.0 mm	9.0 mm	1.5 mm	25 m
FHN172	6.0 mm	10.0 mm	2.0 mm	25 m
FHN173	6.0 mm	12.0 mm	3.0 mm	25 m
FHN174	7.0 mm	10.0 mm	1.5 mm	25 m
FHN175	7.0 mm	11.0 mm	2.0 mm	25 m
FHN176	7.0 mm	12.0 mm	2.5 mm	25 m
FHN177	7.0 mm	13.0 mm	3.0 mm	25 m
FHN178	8.0 mm	11.0 mm	1.5 mm	25 m
FHN179	8.0 mm	12.0 mm	2.0 mm	25 m



FHN - Tubing for laboratory

▶ Tube Versilic®



ISO
10993



- 1| High purity translucent silicone. Biologically neutral (USP XXIII class VI).
- 2| Manufactured according to GMP.
- 3| According to European Pharmacopoeia tests (2nd edition).
- 4| Density: 1,2 - Shore hardness : A=60±5.
- 5| Temperature - 60 °C to +200 °C.
- 6| Conforms to FDA criteria.

Code	Ø inner	Ø outer	Thickness	Reel
FHN180	8.0 mm	14.0 mm	3.0 mm	25 m
FHN181	8.0 mm	16.0 mm	4.0 mm	25 m
FHN182	8.5 mm	12.0 mm	1.75 mm	25 m
FHN183	9.0 mm	13.0 mm	2.0 mm	25 m
FHN185	10.0 mm	14.0 mm	2.0 mm	25 m
FHN186	10.0 mm	16.0 mm	3.0 mm	25 m
FHN187	10.0 mm	18.0 mm	4.0 mm	25 m
FHN188	10.0 mm	23.0 mm	6.5 mm	25 m
FHN189	12.0 mm	15.5 mm	1.75 mm	25 m
FHN190	12.0 mm	17.0 mm	2.5 mm	25 m
FHN191	15.0 mm	21.0 mm,	3.0 mm	25 m
FHN192	0.5 mm	2.5 mm	1.0 mm	50 m
FHN193	1.0 mm	3.0 mm	1.0 mm	50 m
FHN194	1.5 mm	3.0 mm	0.75 mm	50 m
FHN195	2.0 mm	4.0 mm	1.0 mm	50 m
FHN196	2.0 mm	5.5 mm	1.75 mm	50 m
FHN197	2.0 mm	6.0 mm	2.0 mm	50 m
FHN198	3.0 mm	5.0 mm	1.0 mm	50 m
FHN199	3.0 mm	5.5 mm	1.25 mm	50 m
FHN201	3.0 mm	7.0 mm	2.0 mm	50 m
FHN202	4.0 mm	6.0 mm	1.0 mm	50 m

▶ Tube Versilic® platino



- 1| Translucent, hydrophobic, minimal stretching, very good surface.
- 2| FDA and BgVV food grade.
- 3| Density= 1,19 - Shore hardness A=60±5 (standard).
- 4| Temperature from -50°C to +200°C (steam sterilisable).

Code	Ø inner	Ø outer	Thickness	Reel
FHN204	3.0 mm	5.0 mm	1.0 mm	25 m
FHN205	4.0 mm	6.0 mm	1.0 mm	25 m
FHN206	5.0 mm	8.0 mm	1.5 mm	25 m
FHN208	6.0 mm	10.0 mm	2.0 mm	25 m
FHN209	6.0 mm	12.0 mm	3.0 mm	25 m
FHN210	6.0 mm	9.0 mm	1.5 mm	25 m
FHN211	7.0 mm	10.0 mm	1.5 mm	25 m
FHN212	7.0 mm	13.0 mm	3.0 mm	25 m
FHN213	8.0 mm	12.0 mm	2.0 mm	25 m
FHN214	8.0 mm	14.0 mm	3.0 mm	25 m
FHN215	10.0 mm	14.0 mm	2.0 mm	25 m
FHN216	12.0 mm	17.0 mm	2.5 mm	25 m



FHN - Tubing for laboratory

▶ Tube Versitec®



- 1 | Translucent, hydrophobic, minimal stretching, very good surface.
- 2 | FDA and BgVV food grade.
- 3 | Density= 1,19 - Shore hardness A=60±5 (standard).
- 4 | Temperature from -50°C to +200°C (steam sterilisable).

Code	Ø inner	Ø outer	Thickness	Reel
FHN218	0.5 mm	2.5 mm	1.0 mm	50 m
FHN219	1.0 mm	3.0 mm	1.0 mm	50 m
FHN220	1.5 mm	3.0 mm	0.75 mm	50 m
FHN221	2.0 mm	4.0 mm	1.0 mm	50 m
FHN222	2.0 mm	5.5 mm	1.75 mm	50 m
FHN223	2.0 mm	6.0 mm	2.0 mm	50 m
FHN224	3.0 mm	5.0 mm	1.0 mm	50 m
FHN225	3.0 mm	6.0 mm	1.5 mm	50 m
FHN226	3.0 mm	7.0 mm	2.0 mm	50 m
FHN227	4.0 mm	6.0 mm	1.0 mm	50 m
FHN228	4.0 mm	7.0 mm	1.5 mm	25 m
FHN229	4.0 mm	8.0 mm	2.0 mm	25 m
FHN230	4.0 mm	10.0 mm	3.0 mm	25 m
FHN231	5.0 mm	7.0 mm	1.0 mm	25 m
FHN232	5.0 mm	8.0 mm	1.5 mm	25 m
FHN233	5.0 mm	9.0 mm	2.0 mm	25 m
FHN234	5.0 mm	10.0 mm	2.5 mm	25 m
FHN235	6.0 mm	8.0 mm	1.0 mm	25 m
FHN236	6.0 mm	9.0 mm	1.5 mm	25 m
FHN237	6.0 mm	10.0 mm	2.0 mm	25 m
FHN238	6.0 mm	12.0 mm	3.0 mm	25 m
FHN239	7.0 mm	10.0 mm	1.5 mm	25 m
FHN240	7.0 mm	11.0 mm	2.0 mm	25 m
FHN241	7.0 mm	12.0 mm	2.5 mm	25 m
FHN242	7.0 mm	13.0 mm	3.0 mm	25 m
FHN243	8.0 mm	11.0 mm	1.5 mm	25 m
FHN244	8.0 mm	12.0 mm	2.0 mm	25 m
FHN245	8.0 mm	14.0 mm	3.0 mm	25 m
FHN246	8.0 mm	16.0 mm	4.0 mm	25 m
FHN247	9.0 mm	13.0 mm	2.0 mm	25 m
FHN248	10.0 mm	14.0 mm	2.0 mm	25 m
FHN249	10.0 mm	16.0 mm	3.0 mm	25 m
FHN250	10.0 mm	18.0 mm	4.0 mm	25 m
FHN251	12.0 mm	17.0 mm	2.5 mm	25 m
FHN252	15.0 mm	21.0 mm	3.0 mm	25 m
FHN253	18.0 mm	24.0 mm	3.0 mm	10 m
FHN254	20.0 mm	27.0 mm	3.5 mm	10 m
FHN255	25.0 mm	35.0 mm	5.0 mm	10 m
FHN256	30.0 mm	40.0 mm	5.0 mm	10 m
FHN257	40.0 mm	50.0 mm	5.0 mm	10 m

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▶ Tube Isoflex

Kartell

- 1 | Non-toxic PVC.
- 2 | Technical characteristics:
 - Colour: colourless.
 - Odour: none.
 - Taste: none.
 - Toxicity: non-toxic.
 - Ageing: no.
 - Oxidation: no.
- 3 | Chemical characteristics:
 - Strong acids: good.
 - Weak acids: excellent.
 - Strong bases: good.
 - Weak bases: excellent.
 - Organic solvents: Insufficient.

AUTO
+121°

Code	Ø inner	Ø outer	Thickness	Reel
FHN258	0,8 mm	2,4 mm	0,8 mm	20 m
FHN259	2,0 mm	4,0 mm	1,0 mm	20 m
FHN260	4,0 mm	6,0 mm	1,0 mm	20 m
FHN261	5,0 mm	8,0 mm	1,5 mm	20 m
FHN262	6,0 mm	9,0 mm	1,5 mm	20 m
FHN263	7,0 mm	11,0 mm	2,0 mm	20 m
FHN264	8,0 mm	12,0 mm	2,0 mm	20 m
FHN265	10,0 mm	14,0 mm	2,0 mm	20 m
FHN266	12,0 mm	17,0 mm	2,5 mm	20 m

▶ FHN - Tubing for laboratory

▶ Tube ISO Versinic



- 1| 100% fluoroelastomer. Excellent chemical resistance to strong acids, oxidants, chlorinated solvents, aromatic carbides.
- 2| Good flame resistance. Black colour.
- 3| Density= 1.9 - Shore hardness A=60±5 up to Ø 4x6 mm and A=70±5 from Ø 4x8 mm. Temperature -20 °C to +200 °C (peaks up to 300 °C).

Code	Ø inner	Ø outer	Thickness	Reel
FHN267	1.0 mm	3.0 mm	1.0 mm	5 m
FHN268	2.0 mm	4.0 mm	0.75 mm	5 m
FHN269	3.0 mm	5.0 mm	1.0 mm	5 m
FHN270	4.0 mm	6.0 mm	1.0 mm	5 m
FHN271	4.0 mm	8.0 mm	1.0 mm	5 m
FHN272	5.0 mm	8.0 mm	2.0 mm	5 m
FHN273	6.0 mm	9.0 mm	1.5 mm	5 m
FHN274	6.0 mm	10.0 mm	2.0 mm	5 m
FHN275	6.0 mm	12.0 mm	3.0 mm	5 m
FHN276	7.0 mm	10.0 mm	1.5 mm	5 m
FHN277	8.0 mm	11.0 mm	1.5 mm	5 m
FHN279	10.0 mm	14.0 mm	2.0 mm	5 m
FHN280	12.0 mm	17.0 mm	2.5 mm	5 m
FHN281	1.0 mm	3.0 mm	1.0 mm	50 m
FHN282	1.5 mm	3.0 mm	0.75 mm	50 m
FHN283	2.0 mm	4.0 mm	1.0 mm	50 m
FHN284	3.0 mm	5.0 mm	1.0 mm	50 m
FHN285	4.0 mm	6.0 mm	1.0 mm	50 m
FHN286	4.0 mm	8.0 mm	3.0 mm	25 m
FHN287	5.0 mm	8.0 mm	1.5 mm	25 m
FHN288	5.0 mm	10.0 mm	2.5 mm	25 m
FHN289	6.0 mm	9.0 mm	1.5 mm	25 m
FHN290	6.0 mm	10.0 mm	2.0 mm	25 m
FHN291	6.0 mm	12.0 mm	3.0 mm	25 m
FHN292	7.0 mm	10.0 mm	1.5 mm	25 m
FHN293	8.0 mm	11.0 mm	1.5 mm	25 m
FHN294	8.0 mm	12.0 mm	2.0 mm	25 m
FHN295	10.0 mm	14.0 mm	2.0 mm	25 m
FHN296	12.0 mm	17.0 mm	2.5 mm	25 m

▶ Tube PTFE



Kartell

- 1| High resistance to acids, bases and solvents.
- 2| Temperature up to +260 °C

Code	Dimensions	Reel
FHN302	10x12 mm	5 m
FHN303	12x14 mm	5 m
FHN304	2x4 mm	5 m
FHN305	3x5 mm	5 m
FHN306	4x6 mm	5 m
FHN307	6x8 mm	5 m
FHN308	7x9 mm	5 m
FHN309	8x10 mm	5 m
FHN310	9x11 mm	5 m



▶ FHN - Tubing for laboratory

▶ Tube chloropren



- 1 | Good resistance to ageing and to hydrocarbon and mineral oil projections.
- 2 | Density= 1,55 - Shore hardness A=50±5 (standard).
- 3 | Temperature from -20°C to +100°C.

Code	Ø inner	Ø outer	Thickness	Reel
FHN311	2.0 mm	4.0 mm	1.0 mm	100 m
FHN312	3.0 mm	5.0 mm	1.0 mm	100 m
FHN313	3.0 mm	6.0 mm	1.5 mm	100 m
FHN314	4.0 mm	6.0 mm	1.0 mm	100 m
FHN315	4.0 mm	7.0 mm	1.5 mm	50 m
FHN316	4.0 mm	8.0 mm	2.0 mm	50 m
FHN317	5.0 mm	8.0 mm	1.5 mm	50 m
FHN318	6.0 mm	9.0 mm	1.5 mm	50 m
FHN319	7.0 mm	10.0 mm	1.5 mm	50 m
FHN320	8.0 mm	12.0 mm	2.0 mm	50 m
FHN321	10.0 mm	14.0 mm	2.0 mm	50 m
FHN322	12.0 mm	17.0 mm	2.5 mm	5 m
FHN323	15.0 mm	21.0 mm	3.0 mm	-
FHN325	20.0 mm	27.0 mm	3.5 mm	25 m



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▶ Neoprene tubing

Kartell

- 1 | For normal laboratory use, resistant to acids and solvents except benzole and related.
- 2 | Temperature down to -35 °C / +85 °C.

Code	Dimensions	Reel
FHN326	4x6 mm	20 m
FHN327	6x9 mm	20 m
FHN328	8x12 mm	10 m
FHN329	10x14 mm	10 m



▶ Tube TYGON® S3 E-1000



- 1 | Density=1.12 - Shore hardness A=40.
- 2 | Temperature 75 °C to +52 °C.
- 3 | Resists low temperatures; up to -73 °C.

Code	Ø inner	Ø outer	Thickness	Reel
FHN330	1.6 mm	4.8 mm	1.6 mm	15 m
FHN331	3.2 mm	6.4 mm	1.6 mm	15 m
FHN332	4.8 mm	8.0 mm	1.6 mm	15 m
FHN333	6.4 mm	9.6 mm	1.6 mm	15 m
FHN334	6.4 mm	12.7 mm	3.2 mm	15 m
FHN335	8.0 mm	11.2 mm	1.6 mm	15 m
FHN336	9.6 mm	12.7 mm	1.6 mm	15 m
FHN337	9.6 mm	15.9 mm	3.2 mm	15 m
FHN338	12.7 mm	15.9 mm	1.6 mm	15 m
FHN339	12.7 mm	19.1 mm	3.2 mm	15 m



FHN - Tubing for laboratory

Tube TYGON® S3 E-3603



ISO
10993

- 1 | Performance tested on peristaltic pumps.
- 2 | Other FDA directives regarding bio-compatibility.
- 3 | According to USP ClassVI criteria.
- 4 | Density=1,2 - Shore hardness=66.
- 5 | Temperature from -46°C to +74°C.
- 6 | Transparent.

Code	Ø inner	Ø outer	Thickness	Reel
FHN340	1.6 mm	3.2 mm	0.8 mm	15 m
FHN341	3.2 mm	6.4 mm	1.6 mm	15 m
FHN342	4.8 mm	8.0 mm	1.6 mm	15 m
FHN343	4.8 mm	9.5 mm	2.4 mm	15 m
FHN344	6.4 mm	9.6 mm	1.6 mm	15 m
FHN345	6.4 mm	11.2 mm	2.4 mm	15 m
FHN346	6.4 mm	12.7 mm	3.2 mm	15 m
FHN347	9.6 mm	12.7 mm	1.6 mm	15 m
FHN348	9.6 mm	14.3 mm	2.4 mm	15 m
FHN349	9.6 mm	15.9 mm	3.2 mm	15 m
FHN350	12.7 mm	19.1 mm	3.2 mm	15 m
FHN351	19.0 mm	25.4 mm	2.4 mm	15 m
FHN352	25.4 mm	31.8 mm	3.2 mm	15 m
FHN376	3.2 mm	4.8 mm	0.8 mm	15 m
FHN613	0.8 mm	2.4 mm	0.8 mm	15 m
FHN614	1.6 mm	4.8 mm	1.6 mm	15 m
FHN615	2.4 mm	4.0 mm	0.8 mm	15 m
FHN616	2.4 mm	5.6 mm	1.6 mm	15 m
FHN617	4.0 mm	5.6 mm	0.8 mm	15 m
FHN618	4.0 mm	7.2 mm	1.6 mm	15 m
FHN619	4.8 mm	6.4 mm	0.8 mm	15 m
FHN620	4.8 mm	11.1 mm	3.2 mm	15 m
FHN621	6.4 mm	8.0 mm	0.8 mm	15 m
FHN622	8.0 mm	11.1 mm	1.6 mm	15 m
FHN623	8.0 mm	12.7 mm	2.4 mm	15 m
FHN624	8.0 mm	14.3 mm	3.2 mm	15 m
FHN625	8.0 mm	15.9 mm	4.0 mm	15 m
FHN627	11.1 mm	14.3 mm	1.6 mm	15 m
FHN628	11.1 mm	15.9 mm	2.4 mm	15 m
FHN629	11.1 mm	17.5 mm	3.2 mm	15 m
FHN630	12.7 mm	15.9 mm	1.6 mm	15 m
FHN631	12.7 mm	17.5 mm	2.4 mm	15 m
FHN632	12.7 mm	20.6 mm	4.0 mm	15 m
FHN633	14.3 mm	19.0 mm	2.4 mm	15 m
FHN634	14.3 mm	20.6 mm	3.2 mm	15 m
FHN635	15.9 mm	20.6 mm	2.4 mm	15 m
FHN636	15.9 mm	22.2 mm	3.2 mm	15 m
FHN637	15.9 mm	23.8 mm	4.0 mm	15 m
FHN638	17.5 mm	22.2 mm	2.4 mm	15 m
FHN639	19.0 mm	28.6 mm	4.8 mm	15 m
FHN640	22.2 mm	28.6 mm	3.2 mm	15 m
FHN641	25.4 mm	34.9 mm	4.8 mm	15 m
FHN642	25.4 mm	38.1 mm	6.4 mm	15 m
FHN643	28.6 mm	38.1 mm	4.8 mm	15 m
FHN644	31.8 mm	38.1 mm	3.2 mm	15 m
FHN645	38.1 mm	47.6 mm	4.8 mm	15 m
FHN646	38.1 mm	50.8 mm	6.4 mm	15 m
FHN647	44.5 mm	57.2 mm	6.4 mm	15 m
FHN648	2.0 mm	4.0 mm	1.0 mm	15 m
FHN649	3.0 mm	5.0 mm	1.0 mm	15 m
FHN650	4.0 mm	6.0 mm	1.0 mm	15 m
FHN651	5.0 mm	8.0 mm	1.5 mm	15 m
FHN652	6.0 mm	9.0 mm	1.5 mm	15 m
FHN653	7.0 mm	10.0 mm	1.5 mm	15 m
FHN654	8.0 mm	12.0 mm	-	15 m
FHN655	10.0 mm	14.0 mm	2.0 mm	15 m



FHN - Tubing for laboratory

▶ Tube TYGON® S3 E-3603 for vacuum



Code	Ø inner	Ø outer	Thickness	Reel
FHN353	4.8 mm	14.4 mm	4.8 mm	15 m
FHN354	6.4 mm	16.0 mm	4.8 mm	15 m
FHN355	9.5 mm	22.3 mm	6.4 mm	15 m
FHN356	12.7 mm	28.7 mm	8.0 mm	15 m
FHN357	15.9 mm	34.9 mm	9.5 mm	15 m
FHN358	19.0 mm	38.0 mm	9.5 mm	15 m
FHN359	25.4 mm	50.8 mm	12.7 mm	15 m



▶ Tube TYGON® S3 E-LFL



- 1 | Density=1,16 - Shore hardness= 56.
- 2 | Temperature from -54 °C to +74 °C.
- 3 | Conforms to USP Class VI and FDA standards
- 4 | Does not generate particles. Transparent.

Code	Ø inner	Ø outer	Thickness	Reel
FHN366	1.6 mm	4.8 mm	1.6 mm	7.5 m
FHN367	3.2 mm	6.4 mm	1.6 mm	7.5 m
FHN368	4.8 mm	8.0 mm	1.6 mm	7.5 m
FHN369	6.4 mm	9.6 mm	1.6 mm	7.5 m
FHN370	6.4 mm	12,7 mm	3.2 mm	7.5 m
FHN371	8.0 mm	11.2 mm	1.6 mm	7.5 m
FHN372	9.6 mm	15.9 mm	3.2 mm	7.5 m
FHN373	12.7 mm	19.1 mm	3.2 mm	7.5 m
FHN374	19.0 mm	31.8 mm	6.4 mm	3 m
FHN375	25.4 mm	35.0 mm	4.8 mm	3 m



▶ Tubes Tygon S3-B44-4X

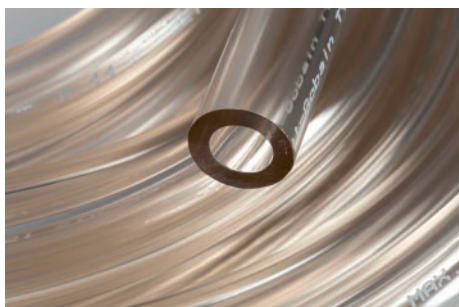


Code	Ø inner	Ø outer	Thickness
FHN449	1.6 mm	3.2 mm	0.8 mm
FHN450	1.6 mm	4.8 mm	1.6 mm
FHN451	2.4 mm	4.0 mm	0.8 mm
FHN452	3.2 mm	4.8 mm	0.8 mm
FHN453	3.2 mm	6.4 mm	1.6 mm
FHN454	4.0 mm	5.6 mm	0.8 mm
FHN455	4.0 mm	7.2 mm	1.6 mm
FHN456	4.8 mm	6.4 mm	0.8 mm
FHN457	4.8 mm	8.0 mm	1.6 mm
FHN458	6.4 mm	9.6 mm	1.6 mm
FHN459	6.4 mm	11.2 mm	2.4 mm
FHN460	6.4 mm	12.7 mm	3.2 mm
FHN461	8.0 mm	11.2 mm	1.6 mm
FHN462	8.0 mm	12.7 mm	2.4 mm
FHN463	8.0 mm	14.3 mm	3.2 mm
FHN464	9.5 mm	12.7 mm	1.6 mm
FHN465	9.5 mm	14.3 mm	2.4 mm
FHN466	9.5 mm	15.9 mm	3.2 mm
FHN468	12.7 mm	15.9 mm	1.6 mm
FHN469	12.7 mm	17.5 mm	2.4 mm
FHN470	12.7 mm	19.1 mm	3.2 mm
FHN471	15.9 mm	22.3 mm	3.2 mm
FHN472	19.1 mm	25.4 mm	3.2 mm
FHN473	19.1 mm	28.6 mm	4.8 mm
FHN474	22.2 mm	28.6 mm	3.2 mm
FHN475	25.4 mm	31.8 mm	3.2 mm
FHN476	25.4 mm	33.3 mm	4.0 mm
FHN477	25.4 mm	35.0 mm	4.8 mm
FHN478	25.4 mm	38.2 mm	6.4 mm
FHN479	31.8 mm	41.3 mm	4.0 mm
FHN480	50.8 mm	63.5 mm	6.4 mm



FHN - Tubing for laboratory

Tubes Tygon S3-B44-4X



Code	Ø inner	Ø outer
FHN482	1.6 mm	3.2 mm
FHN483	1.6 mm	4.8 mm
FHN484	2.4 mm	4.0 mm
FHN485	2.4 mm	5.6 mm
FHN486	3.2 mm	4.8 mm
FHN487	3.2 mm	6.4 mm
FHN488	4.0 mm	5.6 mm
FHN489	4.0 mm	7.1 mm
FHN490	8.0 mm	6.4 mm
FHN491	4.8 mm	7.9 mm
FHN492	4.8 mm	9.5 mm
FHN493	4.8 mm	11.1 mm
FHN494	6.4 mm	9.5 mm
FHN495	6.4 mm	11.1 mm
FHN496	6.4 mm	12.7 mm
FHN497	7.9 mm	11.1 mm
FHN498	7.9 mm	12.7 mm
FHN499	7.9 mm	14.3 mm
FHN601	9.5 mm	12.7 mm
FHN602	9.5 mm	14.3 mm
FHN603	9.5 mm	15.9 mm
FHN604	11.1 mm	17.5 mm
FHN605	12.7 mm	15.9 mm
FHN606	12.7 mm	17.5 mm
FHN607	12.7 mm	19.1 mm
FHN608	15.9 mm	22.3 mm
FHN609	17.5 mm	23.9 mm
FHN610	19.0 mm	25.4 mm

Special tube for pr-se



Code	Dimensions
FHN508	210 mm

Silicon tube



Code	Dimensions
FHN511	4x8 mm
FHN512	6x10 mm
FHN513	8x12 mm



FHN - Tubing for laboratory

▶ Tubes Tygon S3-B44-4X I.B



Code	Ø inner	Ø outer	Thickness
FHN660	6.4 mm	11.2 mm	2.4
FHN661	9.5 mm	15.9 mm	3.2
FHN662	12.7 mm	19.1 mm	3.2
FHN663	15.9 mm	22.3 mm	3.2
FHN664	19.0 mm	25.4 mm	3.2
FHN665	25.4 mm	35.0 mm	4.8
FHN666	31.8 mm	41.4 mm	4.8
FHN667	38.1 mm	50.9 mm	6.4
FHN668	38.1 mm	50.9 mm	6.4
FHN669	50.8 mm	70.0 mm	9.6
FHN670	76.2 mm	95.25 mm	9.5

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FHQ - Tubes for chemical process

▶ Tubes Tygon 2375 DI



Code	Ø inner	Ø outer	Thickness
FHQ001	6.4 mm	11.2 mm	0.8
FHQ002	9.5 mm	15.9 mm	1.6
FHQ003	12.7 mm	19.1 mm	0.8
FHQ004	15.9 mm	22.3 mm	1.6
FHQ005	19.0 mm	25.4 mm	0.8
FHQ006	25.4 mm	35.0 mm	1.6
FHQ007	31.8 mm	41.4 mm	1.6
FHQ008	38.1 mm	50.9 mm	1.6
FHQ009	38.1 mm	50.9 mm	1.6
FHQ010	50.8 mm	70.0 mm	3.2
FHQ011	76.2 mm	95.25 mm	3.2
FHQ012	76.2 mm	95.25 mm	3.2
FHQ013	76.2 mm	95.25 mm	3.2
FHQ014	76.2 mm	95.25 mm	4.8



▶ Tubes Tygon SE-200



Code	Ø inner	Ø outer	Thickness
FHQ015	3.2 mm	6.4 mm	1.6
FHQ016	4.8 mm	8.0 mm	1.6
FHQ017	9.6 mm	14.3 mm	2.4



▶ Tubes Tygon F-4040-A



Code	Ø inner	Ø outer	Thickness
FHQ019	2.03 mm	3.56 mm	0.77
FHQ020	2.4 mm	4.8 mm	1.2
FHQ021	3.2 mm	6.4 mm	1.6
FHQ022	4.8 mm	8.0 mm	1.6
FHQ023	6.4 mm	9.6 mm	1.6
FHQ024	8.0 mm	11.1 mm	1.6
FHQ025	9.5 mm	12.7 mm	1.6
FHQ026	9.5 mm	15.9 mm	3.2
FHQ027	11.1 mm	14.3 mm	1.6
FHQ028	12.7 mm	15.9 mm	1.6
FHQ029	12.7 mm	19.0 mm	3.2
FHQ030	15.9 mm	22.2 mm	3.2
FHQ031	19.0 mm	25.4 mm	3.2



FHS - Tubing for pharmaceutical use

▶ Tube Versilic® 2475



- 1 | Density=0.90 - Shore hardness =72 transparent
- 2 | Temperature -78 °C to +52 °C.
- 3 | Manufactured according to USP, NSF criteria.
- 4 | Non-porous, ultra-smooth inner surface.

Code	Ø inner	Ø outer	Thickness	Reel
FHS001	1.6 mm	4.8 mm	1.6 mm	15 m
FHS002	3.2 mm	6.4 mm	1.6 mm	15 m
FHS003	4.8 mm	8.0 mm	1.6 mm	15 m
FHS004	6.4 mm	9.6 mm	1.6 mm	15 m
FHS005	8.0 mm	11.2 mm	1.6 mm	15 m
FHS006	9.5 mm	12.7 mm	1.6 mm	15 m
FHS007	12.7 mm	19.1 mm	3.2 mm	15 m
FHS008	15.9 mm	22.3 mm	3.2 mm	15 m
FHS009	19.0 mm	25.4 mm	3.2 mm	15 m
FHS010	25.4 mm	35.0 mm	4.8 mm	7.5 m

▶ Tube TYGON® 2475 IB



- 1 | Excellent chemical resistance, even to solvents.
- 2 | Density=0.90 - Shore hardness=72 - transparent.
- 3 | Temperature from -78°C to +52°C. Does not contain plasticizers.
- 4 | Meets USP Class VI and FDA criteria.
- 5 | Ultra-smooth, non-porous inner surface. Transparent.
- 6 | Withstands operating pressures 4 times higher than non-braided tubes.

Code	Ø inner	Ø outer	Thickness	Reel
FHS011	6.4 mm	12.8 mm	3.2 mm	15 m
FHS012	9.5 mm	15.9 mm	3.2 mm	15 m
FHS013	12.7 mm	19.1 mm	3.2 mm	15 m
FHS014	15.9 mm	22.3 mm	3.2 mm	15 m
FHS015	19.0 mm	27.0 mm	4.0 mm	15 m
FHS016	38.0 mm	50.8 mm	4.8 mm	3 m
FHS017	25.4 mm	35.0 mm	6.4 mm	7.5 m

▶ Tube TYGON® 3370 IB



- 1 | Ultra-smooth and hydrophobic interior surface Translucent.
- 2 | Density: 1.22 - Shore hardness=70.
- 3 | Temperature from -80 °C to +160 °C (steam sterilizable).
- 4 | Meets USP Class VI, FDA, NSF criteria.
- 5 | Withstands operating pressures 4 times higher than unbraided tubes.

Code	Ø inner	Ø outer	Thickness	Reel
FHS071	12.7 mm	21.5 mm	4.40 mm	15 m
FHS072	15.9 mm	24.9 mm	4.50 mm	15 m
FHS073	19.0 mm	29.2 mm	5.08 mm	15 m
FHS074	25.4 mm	35.3 mm	4.96 mm	15 m
FHS075	31.8 mm	41.6 mm	4.90 mm	7.5 m
FHS076	38.1 mm	47.9 mm	5.00 mm	7.5 m
FHS077	4.8 mm	11.3 mm	3.25 mm	15 m
FHS078	50.8 mm	61.8 mm	5.5 mm	7.5 m
FHS079	6.4 mm	13.2 mm	3.25 mm	15 m
FHS080	9.6 mm	17.6 mm	3.96 mm	15 m



▶ FHS - Tubing for pharmaceutical use

▶ Tube TYGONS® 3350



- 1| Ultra-smooth and hydrophobic interior surface
- 2| Density=1,14 - Shore hardness=50.
- 3| Temperature from -80 °C to +200 °C (steam sterilizable).
- 4| Limited rate of removable components.
- 5| Meets USP Class VI, FDA, NSF criteria.
- 6| Translucent..



Code	Ø inner	Ø outer	Thickness	Reel
FHS018	1.0 mm	3.0 mm	1 mm	15 m
FHS019	1.0 mm	2.0 mm	1 mm	15 m
FHS020	2.0 mm	4.0 mm	1 mm	15 m
FHS022	3.0 mm	6.0 mm	1.5 mm	15 m
FHS023	3.0 mm	7.0 mm	2 mm	15 m
FHS024	4.0 mm	7.0 mm	1.5 mm	15 m
FHS025	4.0 mm	8.0 mm	2 mm	15 m
FHS026	5.0 mm	8.0 mm	1.5 mm	15 m
FHS027	6.0 mm	9.0 mm	1.5 mm	15 m
FHS028	6.0 mm	10.0 mm	2 mm	15 m
FHS029	6.0 mm	12.0 mm	3 mm	15 m
FHS032	8.0 mm	12.0 mm	2 mm	15 m
FHS033	8.0 mm	14.0 mm	3 mm	15 m
FHS034	10.0 mm	14.0 mm	2 mm	15 m
FHS036	15.0 mm	21.0 mm	3 mm	15 m
FHS037	18.0 mm	24.0 mm	3 mm	15 m
FHS038	20.0 mm	27.0 mm	3.5 mm	15 m
FHS039	0.8 mm	2.4 mm	0.8 mm	15 m
FHS040	1.6 mm	3.2 mm	0.8 mm	15 m
FHS041	1.6 mm	4.8 mm	1.6 mm	15 m
FHS042	2.4 mm	4.0 mm	0.8 mm	15 m
FHS043	2.4 mm	5.6 mm	1.6 mm	15 m
FHS044	3.2 mm	4.8 mm	0.8 mm	15 m
FHS045	3.2 mm	6.4 mm	1.6 mm	15 m
FHS046	4.0 mm	5.6 mm	0.8 mm	15 m
FHS047	4.8 mm	6.4 mm	0.8 mm	15 m
FHS048	4.8 mm	8.0 mm	1.6 mm	15 m
FHS049	4.8 mm	9.6 mm	2.4 mm	15 m
FHS050	4.8 mm	11.2 mm	3.2 mm	15 m
FHS051	6.4 mm	8.0 mm	0.8 mm	15 m
FHS052	6.4 mm	9.6 mm	1.6 mm	15 m
FHS053	6.4 mm	11.2 mm	2.4 mm	15 m
FHS054	6.4 mm	12.8 mm	3.2 mm	15 m
FHS055	8.0 mm	11.2 mm	1.6 mm	15 m
FHS056	8.0 mm	12.8 mm	2.4 mm	15 m
FHS057	9.5 mm	12.7 mm	1.6 mm	15 m
FHS058	9.5 mm	14.3 mm	2.4 mm	15 m
FHS062	12.7 mm	15.9 mm	1.6 mm	15 m
FHS063	12.7 mm	17.5 mm	2.4 mm	15 m
FHS064	12.7 mm	19.1 mm	3.2 mm	15 m
FHS068	25.4 mm	31.8 mm	3.2 mm	15 m

FHV - Tubing for industrial use

▶ Tube Versilic® PTFE



- 1 | In translucent virgin PTFE. Complies with FDA regulations.
- 2 | Batch-by-batch controlled operating pressure. Excellent chemical resistance.
- 3 | Density=2,18 - Shore hardness=58D. Operating temperature: -160 °C to +280 °C.

Code	Ø inner	Ø outer	Reel
FHV001	2,0 mm	3,0 mm	100 m
FHV002	2,0 mm	4,0 mm	25 m
FHV003	2,0 mm	4,0 mm	50 m
FHV004	2,0 mm	4,0 mm	100 m
FHV006	3,0 mm	5,0 mm	100 m
FHV007	4,0 mm	5,0 mm	50 m
FHV008	4,0 mm	6,0 mm	25 m
FHV009	4,0 mm	6,0 mm	50 m
FHV010	4,0 mm	6,0 mm	100 m
FHV011	5,0 mm	6,0 mm	50 m
FHV012	5,0 mm	7,0 mm	50 m
FHV013	6,0 mm	7,0 mm	50 m
FHV014	6,0 mm	8,0 mm	25 m
FHV015	6,0 mm	8,0 mm	50 m
FHV016	6,00 mm	8,00 mm	100 m
FHV017	10,0 mm	12,0 mm	25 m
FHV018	10,0 mm	12,0 mm	50 m
FHV019	10,0 mm	12,0 mm	100 m
FHV020	8,0 mm	10,0 mm	25 m
FHV021	8,0 mm	10,0 mm	50 m
FHV022	8,0 mm	10,0 mm	100 m
FHV024	12,0 mm	14,0 mm	100 m
FHV025	16,0 mm	18,0 mm	40 m
FHV026	18,0 mm	20,0 mm	30 m
FHV027	12,0 mm	14,0 mm	- m
FHV028	16,0 mm	18,0 mm	- m
FHV029	18,0 mm	20,0 mm	- m
FHV041	16,0 mm	3,2 mm	- m

▶ Tube Fluran



Code	Ø inner	Ø outer	Thickness
FHV030	1,60 +/-0,127 mm	3,2 mm	0,80 +/-0,076mm
FHV031	3,20 +/-0,127 mm	6.4 mm	1,60 +/-0,127mm
FHV032	4,80 +/-0,127 mm	8.0 mm	1,60 +/-0,127mm
FHV033	6,40 +/-0,254 mm	9.6 mm	1,60 +/-0,127mm
FHV034	8,00 +/-0,254 mm	11.1 mm	1,60 +/-0,127mm
FHV035	9,50 +/-0,254 mm	12.7 mm	1,60 +/-0,127mm

FHX - Tubing for medical use

▶ Tube TYGON® ND-100-80



- 1 | Rigid, yet flexible to avoid perforation.
- 2 | Micro-diameter sizes correspond to needles 30 to 17
- 3 | Ideal for precision injections and administrations. Transparent.
- 4 | Complies with USP Class VI criteria.
- 5 | Density=1,24 - Shore hardness A=80. Temperature from -31°C to +85°C.

Code	Ø inner	Ø outer	Thickness	Reel
FHX001	0.254 mm	0.762 mm	0.254 mm	150 m
FHX002	0.508 mm	1.524 mm	0.508 mm	150 m
FHX003	0.762 mm	2.286 mm	0.762 mm	150 m
FHX004	1.016 mm	1.778 mm	0.381 mm	150 m
FHX005	1.270 mm	2.286 mm	0.090 mm	150 m



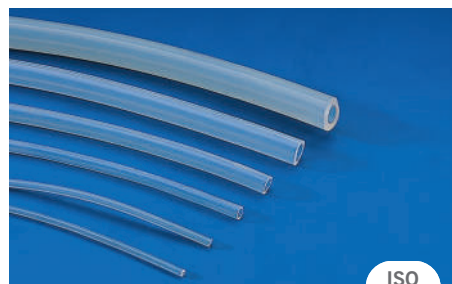
FHX - Tubing for medical use

Sylicon tubing k 70

Kartell

- 1 | Flexible and transparent.
- 2 | Compliant with FDA 21 CFRs 177, 2600, PhEur 3.1.9
- 3 | Temperature: -60 °C/+200 °C..

Code	Dimensions	Reels
FHX006	1x3 mm	10 meters
FHX007	2x4 mm	10 meters
FHX008	3x5 mm	10 meters
FHX009	4x6 mm	10 meters
FHX010	5x8 mm	10 meters
FHX011	6x9 mm	10 meters
FHX012	7x11 mm	10 meters
FHX013	8x12 mm	10 meters
FHX014	9x13 mm	10 meters
FHX015	10x14 mm	10 meters
FHX016	12x17 mm	10 meters
FHX017	14x19 mm	10 meters



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Tube K30, PVC

Kartell

- 1 | It does not contain DEHP.
- 2 | According to PhEur 3.1.1.1 / USP XXXII 2009
- 3 | Temperature: -15 °C/+60 °C.

Code	Dimensions	Reels
FHX018	3x5 mm	20 meters
FHX019	4x6 mm	20 meters
FHX020	5x8 mm	20 meters
FHX021	6x9 mm	20 meters
FHX022	8x12 mm	20 meters
FHX023	10x14 mm	20 meters
FHX024	12x17 mm	20 meters



Tube Tygon ND-100-65

SAINT-GOBAIN

Code	Ø inner	Ø outer	Thickness
FHX026	1,60 +/-0,07 mm	3,20 +/-0,12 mm	0,8 mm
FHX027	1,60 +/-0,07 mm	4,80 +/-0,12 mm	1,6mm
FHX028	2,40 +/-0,07 mm	4,00 +/-0,12 mm	0,8 mm
FHX029	2,40 +/-0,07 mm	5,60 +/-0,12 mm	1,6 mm
FHX030	3,20 +/-0,12 mm	4,80 +/-0,12 mm	0,8 mm
FHX031	3,20 +/-0,12 mm	6,40 +/-0,12 mm	1,6 mm
FHX032	4,00 +/-0,12 mm	5,60 +/-0,12 mm	0,8 mm
FHX033	4,00 +/-0,12 mm	7,20 +/-0,12 mm	1,6 mm
FHX034	4,80 +/-0,12 mm	6,40 +/-0,12 mm	0,8 mm
FHX035	4,80 +/-0,12 mm	8,00 +/-0,20 mm	1,6 mm
FHX036	4,80 +/-0,12 mm	9,60 +/-0,20 mm	2,4 mm
FHX038	6,40 +/-0,12 mm	8,00 +/-0,20 mm	0,8 mm
FHX039	6,40 +/-0,12 mm	9,60 +/-0,20 mm	1,6 mm
FHX040	6,40 +/-0,12 mm	12,70 +/-0,25 mm	3,2 mm
FHX041	8,00 +/-0,20 mm	11,10 +/-0,20 mm	1,6 mm
FHX042	8,00 +/-0,20 mm	12,70 +/-0,25 mm	2,4 mm
FHX043	8,00 +/-0,20 mm	14,30 +/-0,25 mm	3,2 mm
FHX044	9,50 +/-0,20 mm	12,70 +/-0,25 mm	1,6 mm
FHX045	9,50 +/-0,20 mm	14,30 +/-0,25 mm	2,4 mm
FHX046	11,10 +/-0,20 mm	15,90 +/-0,25 mm	2,4 mm
FHX048	12,70 +/-0,25 mm	17,50 +/-0,25 mm	2,4 mm
FHX049	12,70 +/-0,25 mm	19,00 +/-0,25 mm	3,2 mm
FHX050	14,30 +/-0,25 mm	19,00 +/-0,25 mm	2,4 mm

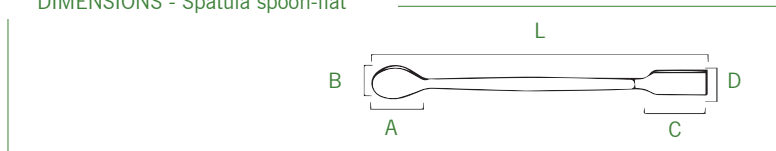


FKB - Spoon-spatula

Spatula spoon-flat



DIMENSIONS - Spatula spoon-flat



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB005	150 mm	15x20 mm	25x12 mm
FKB006	200 mm	30x20 mm	32x15 mm
FKB007	230 mm	30x20 mm	30x15 mm

Spatula spoon-flat reinforced



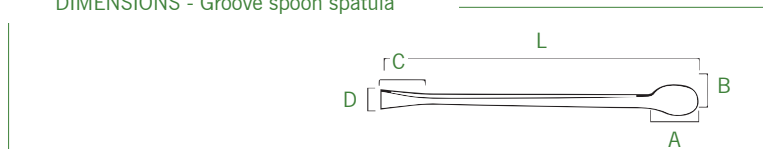
1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB008	100 mm	20x15 mm	22x13 mm
FKB009	125 mm	20x14 mm	18x14 mm
FKB010	150 mm	25x19 mm	30x19 mm
FKB011	200 mm	30x25 mm	30x25 mm
FKB012	250 mm	28x21 mm	35x20 mm

Groove spoon spatula



DIMENSIONS - Groove spoon spatula



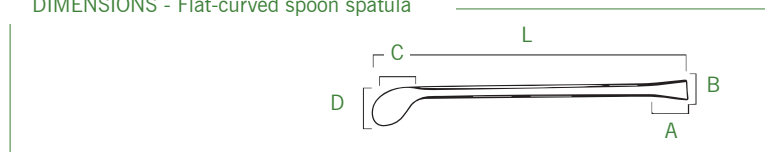
1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB015	120 mm	15x13 mm	15x10 mm
FKB016	140 mm	20x15 mm	17x11 mm
FKB017	160 mm	25x18 mm	17x12 mm
FKB018	180 mm	30x20 mm	20x13 mm

Flat-curved spoon spatula



DIMENSIONS - Flat-curved spoon spatula



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB020	195 mm	20x13 mm	30x20 mm



FKB - Spoon-spatula

Spatula with spoon, for analysis



1 | Made of stainless steel.

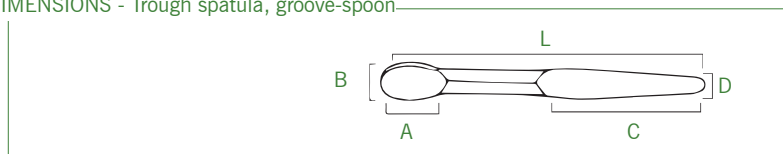
Code	Lenght	AxB	CxD
FKB021	235 mm	40x19 mm	48x10



Trough spatula, groove-spoon



DIMENSIONS - Trough spatula, groove-spoon



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKB022	200 mm	30x24 mm	90x17 mm



Spatula spoon-flat



1 | In glazed porcelain.

Code	Dimensions	Reels
FKB023	88 mm	13 mm



1 | In glazed porcelain.



Code	Dimensions
FKB024	103 mm
FKB025	148 mm
FKB026	164 mm
FKB027	187 mm
FKB028	200 mm
FKB029	250 mm



Spatula spoon-flat - PP



- 1 | High resistance to chemicals and solvents.
- 2 | Can be autoclaved.

Code	Lenght	AxB
FKB030	Blue	16 cm
FKB031	Blue	18 cm
FKB032	Blue	20 cm
FKB033	Red	16 cm
FKB034	Red	18 cm
FKB035	Red	20 cm



FKB - Spoon-spatula

Spatula-spoon - PP



DIN 12890
AUTO +121°

Kartell

- 1 | Excellent chemical resistance.
- 2 | Can be used in the food sector; NSF/ANSI STANDARD 51.

Code	Colour	Lenght
FKB036	Spatula-spoon	180 mm
FKB037	Spatula-spoon	210 mm
FKB038	Spatula-spoon	150 mm
FKB039	Spatula-spoon	180 mm

Spatula with spoon and flat ends



Code	Lenght	Width	Material
FKB501	120 mm	18 mm	Stainless steel AISI 304.
FKB502	150 mm	20 mm	Stainless steel AISI 304.
FKB508	120 mm	18 mm	Pure nickel.
FKB509	150 mm	20 mm	Pure nickel.

Flat spatula with spoon



- 1 | Made of Stainless steel AISI 304.

Code	Lenght
FKB503	180 mm

Flat spatula with spoon



- 1 | Made of Stainless steel AISI 304.
- 2 | Rectangular end: 40 long x 9 mm wide.
- 3 | Spoon end: 30 long x 18 mm wide.

Code	Lenght
FKB504	210 mm



FKB - Spoon-spatula

Grooved spatula



1 | Made of AISI 304 stainless steel.

Code	Lenght
FKB505	190 mm



Spatula spoon flat-concave



1 | Made of AISI 304 stainless steel.

Code	Lenght
FKB506	250 mm



Spatula flat and spoon ends.



1 | Specially designed for lab coats with upper pocket.

Code	Lenght
FKB507	150 mm



Spatula spoon glazed



Code	Lenght
FKB510	140 mm



Chisel and grooved spoon end spatula



Code	Lenght	Width	Material
FKB511	120 mm	18 mm	Stainless steel AISI 304.
FKB512	150 mm	20 mm	Stainless steel AISI 304.
FKB513	120 mm	18 mm	Pure nickel.
FKB514	150 mm	20 mm	Pure nickel.



Spatula square-spoon end



Code	Lenght
FKB561	145 mm
FKB562	210 mm
FKB563	290 mm
FKB564	360 mm

FKD - Spoon-spatula, micro

Microspatule spoon-flat



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKD001	190 mm	50x9 mm	35x9 mm
FKD002	230 mm	57x9 mm	35x16 mm
FKD003	150 mm	54x7 mm	12x8 mm

Micro-spatula flat spoon end.



1 | Made of stainless steel.

Code	Lenght
FKD501	150 mm

Microspatula flat spoon



1 | Stainless steel 18/10

Code	Lenght	Largeur
FKD502	100 mm	4 mm
FKD503	150 mm	4 mm
FKD504	210 mm	4 mm

FKG - Spatulas

Spatula wooden handle



Code	A	Code	AxB
FKG006	215 mm		100x20 mm
FKG007	270 mm		150x25 mm
FKG009	315 mm		200x25 mm

Vibrating spatula



1 | With manual vibrating device. Made of AISI 304 stainless steel.

Code	End	Total lenght	Width
FKG501	Curve	176 mm	12 mm
FKG502	Grooved	176 mm	12 mm



FKG - Spatulas

Flexible spatula



1 | With stainless steel AISI 304 blade and handle.

Code	Total length	Blade length	Blade width
FKG503	160 mm.	52 mm.	11 mm.
FKG504	160 mm.	52 mm.	15 mm.
FKG505	170 mm.	60 mm.	20 mm.



Spatula pocket pouch



1 | With stainless steel AISI 304 blade and handle.

Code	Contents
FKG506	1 Flexible spatula. 1 Semi micro spatula. 1 Micro spatula flat spoon. 1 Dissection scissors. 1 Forceps blunt end.



Spatula with wooden handle



Code	Long. blade	Lenght blade
FKG507	80 mm	14 mm
FKG508	100 mm	16 mm
FKG509	120 mm	18 mm
FKG510	140 mm	22 mm
FKG511	160 mm	24 mm
FKG512	200 mm	29 mm
FKG513	240 mm	34 mm
FKG514	280 mm	34 mm



FKL - Double spatula

Spatula flat-flat reinforced



1 | Made of stainless steel.

Code	Lenght	Spatula (LxA)
FKL001	150 mm	35x18 mm
FKL002	200 mm	45x18 mm



Double stirring spatula



1 | In glazed porcelain.

Code	Lenght
FKL003	104 mm
FKL004	186 mm
FKL005	250 mm
FKL006	298 mm



FKL - Double spatula

Micro-spatula flat spoon end



1 | Thermal conductivity 1,3. Bending strength 70MPa

Code	Lenght	Flat width	Grooved width
FKL501	180 mm	9 mm	8 mm

Spatula with pocket clip



1 | Specially designed for lab coats with upper pocket.

Code	End	Lenght
FKL503	Spatula flat with grooved	180 mm
FKL504	Spatula double flat	150 mm

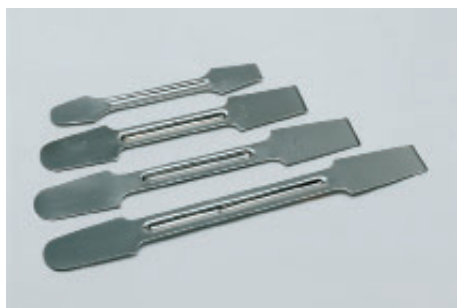
Spatula with curved ends



1 | Made of stainless steel AISI 304.

Code	Lenght	Width
FKL505	130 mm	11 mm
FKL506	180 mm	11 mm
FKL507	210 mm	11 mm

Flat and curved end spatula



1 | Made of stainless steel AISI 304.

Code	Lenght	Width
FKL508	120 mm	20 mm
FKL509	150 mm	24 mm
FKL511	210 mm	24 mm



FKL - Double spatula

Spatula double curved ends



1 | Made of stainless steel AISI 304.

Code	Lenght	Width
FKL514	180 mm	25 mm
FKL515	210 mm	25 mm

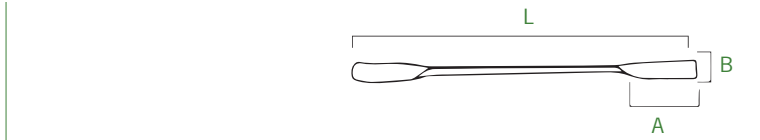


FKN - Double spatula, micro

Chattaway spatula



DIMENSIONS - Chattaway spatula



1 | Made of stainless steel.

Code	Lenght	AxB
FKN001	100 mm	25x8 mm
FKN002	120 mm	25x9 mm
FKN003	150 mm	25x9 mm
FKN004	170 mm	30x9 mm
FKN006	140 mm	35x7 mm



Microspatula flat- groove



1 | Made of stainless steel.

Code	Total lenght	Spatula (LxA)
FKN007	150 mm	30x5 mm
FKN008	200 mm	30x5 mm



Micro-spatula curved ends



1 | Made of stainless steel AISI 304.

Code	Lenght
FKN501	150 mm



1 | Made of stainless steel AISI 304.

Code	Lenght
FKN502	150 mm



FKN - Double spatula, micro

▶ Micro spatula with flat ends



1 | Made of stainless steel AISI 304.

Code	Lenght	Width
FKN503	80 mm	4 mm
FKN504	120 mm	4 mm
FKN505	150 mm	4 mm
FKN506	210 mm	4 mm

▶ Double spatula semi-micro



1 | Made of stainless steel AISI 304.

Code	Total Lenght	Rectangular end	Oval end
FKN507	140 mm	35x7 mm	35x7 mm

FKP - Spoons

▶ Filled spatula



Code	Lenght	Spoon (LxA)	Spatula (LxA)
FKP001	142 mm	25x11 mm	50x9 mm

▶ Scoop



Code	Lenght
FKP002	237 mm

▶ Spoon for acid



1 | Made of stainless steel AISI 304.

Code	Lenght
FKP007	130 mm
FKP008	180 mm
FKP009	230 mm

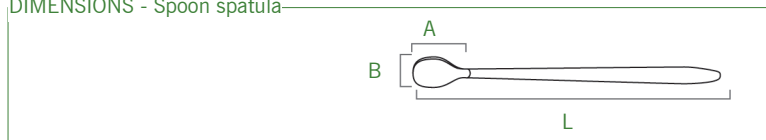


FKP - Spoons

Spoon spatula



DIMENSIONS - Spoon spatula



1 | Made of stainless steel.

Code	Lenght	AxB
FKP003	125 mm	20x13 mm
FKP004	160 mm	15x15 mm
FKP005	180 mm	25x18 mm
FKP006	220 mm	30x18 mm

Sodium spoon



1 | With brass basket.

Code	Ø	Lenght
FKP501	25 mm	190 mm



Micro spatula with flat ends



1 | Made of stainless steel AISI 304.

Code	Capacity	Total lenght	Diameter
FKP502	100 mL	240 mm	Ø 83 mm
FKP503	200 mL	280 mm	Ø 92 mm
FKP504	300 mL	360 mm	Ø 102 mm

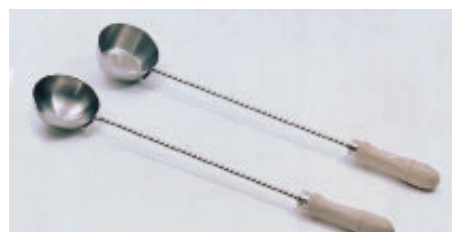


Fusion spoons



1 | Made of AISI 304 stainless, wooden handle.

Code	Base	Total lenght	Volume
FKP506	Flat	350 mm	90 mm
FKP507	Round	350 mm	75 mL



Fusion spoons



1 | Made of AISI 304 stainless, wooden handle.

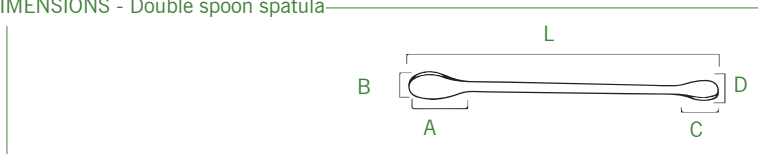
Code	Volume	Lenght
FKP546	10 mL	100 mm



FKR - Double spoons



DIMENSIONS - Double spoon spatula



1 | Made of stainless steel.

Code	Lenght	AxB	CxD
FKR001	160 mm	25x18 mm	15x11 mm
FKR002	200 mm	30x20 mm	25x15 mm

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Spatula double spoon ends



1 | Made of stainless steel AISI 304.

Code	Total Lenght
FKR501	150 mm

FKW - Scoops

Industrial scoop, HDPE



1 | Neutral colour.

Code	Capacity	Total lenght	Usable lenght
FKW002	250 mL	24 cm	15,5 cm
FKW004	600 mL	30 cm	19,5 cm
FKW001	1100 mL	36 cm	24 cm
FKW003	2500 mL	40 cm	28,5 cm



1 | Neutral colour.

Code	Capacity	Dimensions
FKW014	250 mL	25 cm.
FKW015	500 mL	30 cm.
FKW012	1000 mL	40 cm.
FKW013	1500 mL	40 cm.



FKW - Scoops

▶ Measuring scoop, PP

Kartell

1 | Neutral colour.

Code	Capacity	Dimensions
FKW005	10 ml	32x103x16 mm
FKW008	25 ml	43,8x137x3x21 mm
FKW010	50 ml	55,4x163,7x26 mm
FKW006	100 ml	67,2x201,7x34 mm
FKW009	250 ml	94x261,5x43,7 mm
FKW011	500 ml	112x315x55 mm
FKW007	1000 ml	141x386,6x69,4 mm



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▶ Weighing Scoop in Glass



Code	Capacity
FKW016	3 ml
FKW017	6 ml
FKW018	10 ml



▶ Measuring scoop, PP

VITLAB

1 | Precisely shaped filler edge and solid, comfortable handle. Clearly legible volume indication on the top of the handle.

Code	Volume	Lenght
FKW501	2 mL	60 mm
FKW502	5 mL	82 mm
FKW503	25 mL	135 mm
FKW504	50 mL	160 mm
FKW505	100 mL	200 mm
FKW506	250 mL	260 mm
FKW507	500 mL	315 mm
FKW508	1000 mL	385 mm



▶ Measuring scoop, PE-HD

VITLAB

1 | Conical shape, narrower filling edge.

Code	Volume	Colour	Lenght
FKW509	25 mL	Natural	135 mm
FKW510	65 mL	Natural	185 mm
FKW511	110 mL	Natural	215 mm
FKW512	150 mL	Natural	250 mm
FKW513	350 mL	Natural	310 mm
FKW514	750 mL	Natural	350 mm
FKW515	1250 mL	Natural	400 mm



FKW - Scoops

▶ Measuring scoop PP



VITLAB

1 | Precisely shaped filler edge and solid, comfortable handle. Volume reference clearly legible on the top of the handle

Code	Volume	Colour
FKW516	50 mL	Blue
FKW517	100 mL	Red
FKW518	100 mL	Yellow
FKW519	100 mL	Blue
FKW520	100 mL	Green
FKW521	100 mL	Blue vif
FKW522	100 mL	Set of 9 scoops PP colour
FKW546	250 mL	Blue
FKW547	250 mL	Red

▶ Scoops with handle



1 | Made of stainless steel AISI 304.

Code	Total length	Usable length	Width	Capacity
FKW523	180 mm.	100 mm.	50 mm.	120 ml.
FKW524	260 mm.	150 mm.	75 mm.	450 ml.
FKW525	310 mm.	200 mm.	100 mm.	1500 ml.
FKW526	330 mm.	210 mm.	150 mm.	2000 ml.

▶ Scoops with handle



1 | Made of stainless steel AISI 304.

Code	Total length	Size
FKW527	320 mm.	Medium
FKW528	360 mm.	Big

▶ FM - Dissection material



The dissection articles are exclusively for didactic and veterinary use, not for medical use. Except those with CE marking.

Disinfect before use. Wash your hands with an antibacterial soap before use.

Under no circumstances should instruments with rust or corrosion be used.

Never leave a dirty instrument to dry. Moisten immediately.

They can be subjected to repeated ultrasonic cleaning.

The instruments can be sterilized by means of an autoclave:

1. Use distilled water
2. Remove the remains of blood tissue with a nylon brush.
3. Leave the instruments open during the autoclaving process. Place the fine parts and cutters in the upper part of the device.
4. Autoclave in 4/6 minutes at 132 °C (270 °F).
5. Dry for 4/5 minutes.
6. Do not leave the instruments in the autoclave.
7. After sterilization, leave a drop of silicone oil for proper functioning.



▶ FMB - Scalpels - blades

▶ Histologic folding knife



1 | Stainless steel blade.

Code	Lenght	Handle
FMB001	110 mmm	Metal
FMB002	110 mm	Plastic



▶ Scalpel, fixed blade



1 | Stainless steel blade.

Code	Lenght	Handle
FMB003	150 mm	40 mm



▶ Disposable scalpels



1 | Carbon steel blade, plastic handle
2 | Individually packaged Supplied in boxes of 10.

Code	Number	Lenght
FMB004	10	135 mm
FMB005	11	135 mm
FMB006	15	135 mm
FMB007	20	160 mm
FMB008	21	160 mm
FMB009	22	160 mm
FMB010	23	160 mm
FMB011	24	160 mm



▶ Scalpel handle n° 3



1 | In stainless steel.

Code	Number	Total lenght
FMB020	n° 3 long	200 mm
FMB021	n° 3	125 mm



▶ Scalpel handle n° 4



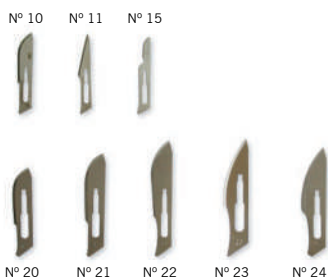
1 | In stainless steel.

Code	Number	Total lenght
FMB022	n° 4 long	220 mm
FMB023	n° 4	140 mm



FMB - Scalpels - blades

Scalpel blades



- 1 | Made of carbon steel
- 2 | The number assigns a universal format that identifies size and shape.
- 3 | Individually packaged. Supplied in boxes of 100 units.

Code	Number	For handle number
FMB012	N° 10	3
FMB013	N° 11	3
FMB014	N° 15	3
FMB015	N° 20	4
FMB016	N° 21	4
FMB017	N° 22	4
FMB018	N° 23	4
FMB019	N° 24	4

Sterile blood lancets



- 1 | Made of stainless steel.
- 2 | Disposable, single use for capillary blood sampling.
- 3 | Individual packaging. Supplied in a box of 200 units.

Code	FMB024
------	--------

Anatomy scalpel



- 1 | Made of AISI 304 stainless steel.

Code	Blade lenght
FMB501	35 mm

Scalpel handle n° 4



- 1 | Made of AISI 304 stainless steel, comes with three sterile blades

Blades	Code FMB503: 10 sterile blades n° 20 Code FMB504: 10 sterile blades n° 22 Code FMB505: 10 sterile blades n° 23
--------	--

Code	FMB502
------	--------



▶ FMD - Dissecting needles

▶ Dissecting pin



1 | Stainless steel needle.

Code	Total length	Handle
FMD001	145 mm	Stainless steel
FMD002	145 mm	Plastic



▶ Lancet dissecting pin



1 | Stainless steel needle.

Code	Total length	Handle
FMD003	135 mm	Stainless steel
FMD004	135 mm	Plastic



▶ Histologic needle, curved tip



1 | Stainless steel needle.

Code	Total length
FMD005	130 mm



▶ Catheter



1 | In stainless steel.

Code	Total length
FMD006	140 mm
FMD007*	200 mm



*code available until end of stock

▶ Grooved probe



1 | In stainless steel.

Code	Total length
FMD008	140 mm



▶ Dissection needles



1 | Plastic handled, AISI 304 stainless steel needle.

Code	Point	Total length
FMD501	Lancet	140 mm
FMD504	Fine	140 mm



1 | Hexagonal metallic handle with a AISI 304 stainless steel needle.



Code	Point	Total length
FMD503	Lancet	40 mm
FMD502	Fine	140 mm



▶ FMG - Forceps, curved

▶ London - College



1 | Curved tip, in stainless steel.

Code	Total length
FMG001	115 mm
FMG002	150 mm

▶ Laboratory forceps



1 | Curved tip, in stainless steel.

Code	Total length
FMG003	110 mm

▶ Dissecting curved forceps



1 | Curved tip, in stainless steel.

Code	Tip	Total length
FMG501	Fine	140 mm
FMG502	Round	140 mm

▶ FMJ - Forceps, straight

▶ Dissecting forceps without teeth



1 | Straight and grooved tip in stainless steel.

Code	Total length
FMJ001	125 mm
FMJ002	140 mm
FMJ003	160 mm
FMJ004	200 mm
FMJ005	250 mm

▶ Dissecting forceps



1 | Sharp stainless steel tip.

Code	Total length
FMJ006	115 mm
FMJ007	140 mm



▶ FMJ - Forceps, straight

▶ Dissecting forceps



- 1 | Instead of striation on the tip they have teeth that fit into the teeth on the opposite side.
- 2 | Used to grasp gauze, they also provide a firm hold on the skin and hard tissues.
- 3 | In stainless steel.

Code	Dientes	Total length
FMJ008	1:2 teeth	125 mm
FMJ009	1:2 teeth	140 mm
FMJ014	1:2 teeth, fine tip	140 mm
FMJ010	1:2 teeth	160 mm
FMJ011	1:2 teeth	200 mm
FMJ012	2:3 teeth	130 mm
FMJ013	2:3 teeth	145 mm



▶ Forceps POM



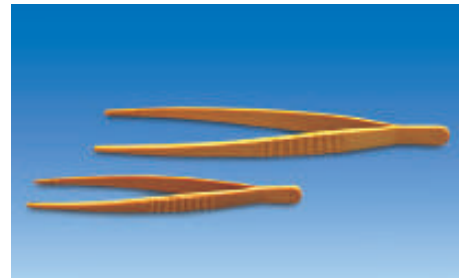
Code	Number
FMJ015	115 mm
FMJ016	145 mm
FMJ017	250 mm



- 1 | Yellow, blunt, elastic, very good resilience.
- 2 | With grooves on the outside for optimum handling and grip.



Code	Number
FMJ501	115 mm
FMJ502	145 mm
FMJ503	180 mm
FMJ504	250 mm



▶ Forceps PMP



- 1 | White, pointed, elastic, very good resilience.

Code	Number
FMJ506	115 mm
FMJ505	145 mm



▶ Dissecting straight forceps



- 1 | Curved tip, in stainless steel.

Code	Tip	Total length
FMJ507	Round	140 mm
FMJ508	Fine	140 mm



▶ FML - Forceps, special

▶ Adson Forceps



1 | In stainless steel.

Code	Total length
FML001	120 mm

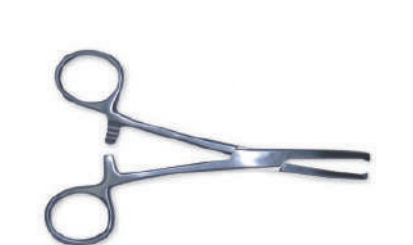
▶ Feilchenfeld Forceps



1 | In stainless steel.

Code	Total length
FML002	110 mm
FML003	90 mm

▶ 'Kocher' forceps



1 | With teeth, stainless steel

Code	Total length
FML004	140 mm

▶ Haemostatic forceps



1 | They have a mechanism through which, once closed, the clamp remains fixed without needing to be tightened. They are easily released.
2 | In stainless steel.

Code	Model	Total length
FML005	Mosquito straight	130 mm
FML015	Curved	140 mm
FML017	Straight	140 mm

▶ Forceps for insects



1 | In stainless steel.

Code	Total length
FML006	120 mm

▶ Forceps, spring effect



1 | In stainless steel.

Code	Model
FML007	Forceps, spring effect
FML010	Forceps f/slides, flat tips



▶ FML - Forceps, special

▶ “Rochester-Pean” forceps



1 | In stainless steel.

Code	Total length
FML008	160 mm



▶ Forceps very thin tip



1 | Fine tips, in stainless steel.

Code	Total length
FML009	110 mm



▶ Baumgartner needle holder



- 1 | For grasping and holding surgical needles, they have short, firm branches.
- 2 | The size of the needle holder should be in accordance with the size of the needle.
 - Baumgartner for fine needles.
 - Mayo-Hegar for coarse needles..
- 3 | In stainless steel.

Code	Model	Total length
FML011	Baumgartner	140 mm
FML012*	Baumgartner	180 mm
FML013	Mayo-Hegar	160 mm
FML014*	Mayo-Hegar	180 mm
FML019	Mayo-Hegar	145 mm

*code available until end of stock



▶ Forceps PTFE



1 | Exceptional chemical, mechanical and heat resistance

Code	Total length
FML023	100 mm
FML024	150 mm



▶ Slides forceps



1 | Suitable for lifting, slides, watch glass or small flat object.

Code	Length
FML503	105 mm



▶ FML - Forceps, special

▶ Balance weight forceps



1 | Made of AISI 304 stainless, electrobright finish.

Code	Type	Lenght
FML504	Balance weight forceps	93 mm
FML505	Forceps for balance weights	100 mm

▶ Forceps



1 | Made of AISI 304 stainless, electrobright finish.

Code	Type	Lenght
FML506	Straight serrated fine point	160 mm
FML507	Straight forceps with curved fine tips	160 mm
FML508	Laboratory forceps curved point	160 mm

▶ Forceps ring shaped tip



1 | AISI 304 stainless steel forceps for picking up swabs and textiles etc.

Code
FML509

▶ Flat scissors



1 | With serrated safety lock, ideal for laminates, negatives and chromatography

Code	Flat lenght	Total lenght
FML510	40 mm	160 mm

▶ Laboratory forceps curved point



1 | With serrated safety lock, ideal for laminates, negatives and chromatography.

Code	Total lenght
FML511	160 mm



▶ FMN - Scissors

▶ Curved scissors sharp-sharp

1 | Made of stainless steel.



Code	Model	Total length
FMN001	Sharp-sharp	140 mm
FMN004	Sharp-blunt	130 mm
FMN006*	Blunt-blunt	125 mm
FMN007	Blunt-blunt	140 mm

*code available until end of stock



▶ Straight scissors sharp-sharp



Code	Model	Total length
FMN009	Straight sharp-sharp	115 mm
FMN010	Straight sharp-sharp	140 mm
FMN011	Straight sharp-sharp	160 mm
FMN012	Straight sharp-blunt	125 mm
FMN013	Straight sharp-blunt	140 mm
FMN014	Straight sharp-blunt	160 mm
FMN015	Straight blunt-blunt	140 mm
FMN016	Straight blunt-blunt	160 mm



▶ Curved Mayo scissors



1 | In stainless steel.

Code	Model	Total length
FMN018	Curved	140 mm
FMN019	Straight	140 mm



▶ Scissors tungsten sharp-sharp



Code	Model	Total length
FMN021	Sharp-sharp	130 mm
FMN022	Sharp-blunt	130 mm
FMN023	Iris	110 mm
FMN024	Metzenbaum	140 mm



▶ Micro scissors Noye



1 | In stainless steel.

Code	Total length
FMN025	115 mm



▶ FMN - Scissors

▶ Scissors Iris



1 | In stainless steel.

Code	Total length
FMN026	110 mm

▶ Littauer scissors



- 1 | In stainless steel.
- 2 | Hook-shaped blade to easily slide under the suture and prevent it from slipping.

Code	Total length	Blade length
FMN027*	140 mm	40 mm

**code available until end of stock*

▶ Scissors Metzenbaum



1 | In stainless steel.

Code	Total length
FMN028	140 mm

▶ Scissors for bandage Lister



1 | In stainless steel.

Code	Total length
FMN029	140 mm

▶ Scissors Spencer



1 | Fine tips, in stainless steel.

Code	Number
FMN030	130 mm



FMN - Scissors

Multi purpose scissors



1 | General use and bandage dressing

Code	Shape	Cut length	Total length
FMN501	Curved	40 mm	145 mm
FMN503	Straight	50 mm	140 mm



Dissection scissors



Code	Cut length	Total length
FMN502	35 mm	125 mm
FMN504	25 mm	110 mm



FMQ - Dissecting kits

15 pieces



Code

FMQ001

Composed of:

Code	Description
FMD006	1 catheter, 140 mm
FMD007	1 catheter, 200 mm
FML011	1 Baumgartner needle holder, 140 mm.
FMB021	1 scalpel handle, n° 3.
FMB023	1 scalpel handle, n° 4.
FMN013	1 straight scissors sharp-blunt
FMN004	1 curved scissors sharp-blunt
FMN019	1 straight Mayo scissors, 140 mm.
FMN018	1 curved Mayo scissors, 140 mm.
FMJ009	1 dissecting forceps 1:2 teeth, 140 mm.
FMJ002	1 dissecting forceps without teeth, 140 mm.
FML015	1 haemostatic forceps, curved, 140 mm.
FML017	1 haemostatic forceps, straight, 140 mm.
FML005	1 haemostatic forceps Mosquito, straight, 130 mm.
FMD002	1 sharp dissecting Pins, 145 mm.



▶ FMQ - Dissecting kits

▶ 9 pieces



Nahita

Code

FMQ002

Contiene:

Code	Description
FMD006	1 catheter, 140 mm.
FMD008	1 grooved probe, 140 mm.
FML011	1 Baumgartner needle holder, 140 mm.
FMB021	1 scalpel handle n° 3., 125 mm
FMB023	1 scalpel handle, n° 4., 140 mm
FMN013	1 straight scissors sharp-blunt
FMN004	1 curved scissors sharp-blunt
FMJ009	1 dissecting forceps 1:2 teeth, 140 mm.
FMJ002	1 dissecting forceps without teeth, 130 mm.
FMQ006	1 empty dissection case, 9 pieces

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▶ Empty case



Nahita

- 1 | Push button closure.
- 2 | Supplied without instruments.

Code	Number	Dimensions (LxA)
FMQ004	3 pieces	160x90 mm
FMQ005	6 pieces	180x100 mm
FMQ003	12 pieces	168x105 mm

▶ Empty case



Nahita

- 1 | External colour brown, interior red.
- 2 | Zippered closure.
- 3 | Supplied without instruments.

Code	Description
FMQ006	9 pieces
FMQ007	15 pieces

▶ Dissection kit



P SELECT

- 1 | Model Student.

Code

FMQ502

Contains:

- 1 fine point probe,
- 1 lancet probe
- 1 blunt end forceps
- 1 fine tip forceps,
- 1 scalpel handle n° 4
- 3 sterile blades for scalpel handle n° 4
- 1 scissors,
- 1 magnifying glass
- 1 style probe
- 1 scalpel.



FZB - Stabilizing rings

▶ Stabilizing ring



- 1| To stabilize bottles, flasks, etc., preventing them from floating when submerged.
- 2| Made of steel covered with PVC.

Code	Total length	Weight (aprox.)
FZB001	48 mm	270 g
FZB002	56 mm	520 g
FZB003	61 mm	780 g
FZB004	74 mm	960 g



▶ Stabilising rings "CIRCUM"



- 1| The weight of the ring stabilises and prevents flasks from floating when placed in a water bath.
- 2| Suitable for Conical, volumetric and all types of flasks.

CODE: FZB507 Ring support holder, made of stainless steel.

Code	Colour	Mode	Ø interior mm.	Weight g.
FZB501	red	open	50	207
FZB502	red	open	70	340
FZB503	red	open	100	470
FZB504	blue	closed	48	270
FZB505	blue	closed	70	360
FZB506	blue	closed	90	440



FZD - Glass markers

▶ Pen for glass



Code	Model
FZD003	Glass marking pencil
FZD002	Glass marking pencil, Chinagraph



▶ Diamond point pencil



Code	Description
FZD505	For glass engraving.



▶ Laboratory vibro-engraver SIGNOGRAPH-COM 25



- 1| Comes complete with a set of 5 engraving tips: Diamond, carbide, tempered steel and two for decorative work.
- 2| For engraving all types of glass, metal, plastic material, ceramic etc.

Code	Description
FZD506	For glass engraving.



FZG - Compass

▶ Aluminium compass



Code	Model	Diameter
FZG001	Aluminium compass	40 mm
FZG002	Initiation compass	44 mm
FZG003	Directional compass	53 mm
FZG004	Plastic compass	55 mm

FZJ - Calibers

▶ Vernier callipers with digital display din 862



- 1 | 5 digits display.
- 2 | AISI 304 Stainless steel with double measuring scale.
- 3 | Comes complete with wooden case.

Code	Measuring range	Reproducibility
FZJ501	0 - 300 mm	0.01 mm
FZJ503	0 - 150 mm	0.01 mm

▶ Palmer micrometer with digital display din 862



- 1 | 5 digits display.
- 2 | Comes complete with wooden case.

Code	Measuring range	Resolution	Precision
FZJ502	0-25 mm	0.001 mm	0.002 mm



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[G]
CENTRIFUGES



RS Lab

Nahita

nahita
blue



▶ GBF - Bench top, digital

▶ Series 2615/1



- 1 | Plastic housing. Angle rotor. Motor with brushes.
- 2 | Safety device on cover.

Code	GBF001
Capacity	6x15mL
Timer(min)	1-60
Speed range (rpm)	1000-4000 (steps of 500)
FCR max (g)	1790
Aprox. dimensions. (cm)	28x28x25
Aprox. Weight (Kg)	5

Accessories mono-cabezal 2615/1



Set of accessories
Code GBK001



Adapter for tubes
Code GBK002



Adapter for tubes
Code GBK003



Carbon brush
Code GBK004

Code	Description
GBK001	6 tube holders for 15 mL tubes, 6 rubber cushions and 1 fuse
GBK002	Dimensions (ØxL) 13x100 mm
GBK003	Dimensions (ØxL) 13x75 mm
GBK004	Carbon brush (until serial number 2018100000200)

▶ Digital angle centrifuge Fugelab - GB10



- 1 | Plastic housing and cover.
- 2 | Speed programming in rpm or FCR.
- 3 | Memorizes the last program made, press function short (Short Spin).
- 4 | Sound signal and automatic opening of the lid at the end of the centrifugation
- 5 | Emergency opening system in case of power failure
- 6 | Double safety system in lid with electromagnetic and mechanical closing.
- 7 | Maintenance-free induction motor.

Code	GBF010
Rotor	Angle
Max. capacity	12x15 mL
Speed range	100- 4000 rpm (steps of 10 in 10)
FCR max.	2250 xg (steps of 10 in 10)
Timer	1-99 min
Dimensions (LxAxH)	485x375x290 mm
Weight	16 kg
Power	230VAC, 50/60Hz
Noise max speed	≤ 65dB(A)

Accessories Fugelab - GB10



Adapter for tubes
Code GBK002



Adapter for tubes
Code GBK003

Code	Description
GBK002	For tubes dimensions (ØxL) 13x100 mm
GBK003	For tubes dimensions (ØxL) 13x75 mm



GBF - Bench top, digital

Digital angle centrifuge series 2650



- 1 | Painted aluminium angle rotor. Digital parameter adjustment.
- 2 | Oven-painted steel housing. Folding methacrylate cover with locking anchorage.
- 3 | Electromagnetic contact switch for cover and lock.

Code	GBF011	GBF012
Model	2650-D	2650-D+
Motor	Brush motor	Brushless motor
Capacity	12 tubes of 15 mL	
Speed range	500-4000 rpm (increase of 50 rpm)	
FCR max	2300xg (increase of 10xg)	
Dimensions	330x 285x270 mm	
Weight	9,75 kg	
Power	220V/50Hz	



Accessories 2650-D and 2650-D+



Adapter for tubes*

Code GBK003

Code	Description
GBK003	For tubes dimensions (ØxL) 13x75 mm
GBK015	Tube holder for centrifuges 2650-D and 2650-D+

*For tubes of 13x75 mm with the option of removing the end for the use of tubes of 13x100 mm.

Centrifuge "CENCOM II"



- 1 | With Rotor for 6 tubes of 15 ml and 6 additional adapters for falcon tubes of 15 ml.
- 2 | Digital electronic speed and time control. Adjustable speed up to 4000 r.p.m. (1790 rcf).
- 3 | Microswitch safety device that disconnects the power supply to the motor when the lid is opened. Protective fuse on the rear part.
- 4 | External cabinet in moulded ABS plastic..
- 5 | Elastic suspension of the motor, reducing vibrations to a minimum.
- 6 | Angle rotor for 6 tubes with numerical identifier
- 7 | Transparent polycarbonate cover that allows the rotor to be seen in operation. Selection from 1000 to 4000 rpm in 500 rpm steps
- 8 | Time selection from 1' to 60' s in 1' steps



Panneau de commandes

- Digital display for speed or time indication.
- On/off button.
- Speed-time selection button.
- Increase value button.
- Decrease value button.

Code	GBF501
Tube capacity	6 x 15 mL
Height (exterior)	28 cm
Ø	26 cm
Max. speed	4000 rpm
Rcf	1760 xg
Power	80 W
Weight	4,5 kg

Supplied with 6 adapters with 6 x 15 mL glass tubes



▶ GBF - Bench top, digital

▶ Models CENTRO-4-BL and CENTRO-8-BL



Common features

- 1| Electronic control and digital reading of speed and time with fixed acceleration and braking ramp
- 2| Adjustable chrono-switch from 1' to 60' or for continuous work
- 3| Elastic motor suspension for smooth operation
- 4| Intermittent engine run button at selected speed
- 5| Automatic switch-off in case of unbalance with indicator light
- 6| Fixation of the equipment to the table by suction cup that gives a good grip.
- 7| Interior insulation that absorbs noise and vibrations
- 8| Electronic lid opening or manual opening in case of power failure
- 9| Noise level 50-60 dBA
- 10| Rotor and adapters with laser identification mark. Autoclavable

Security

- 1| Electronic closure of the rotor chamber
- 2| Locking of the cover opening as long as the rotor is moving
- 3| Locking the margin as long as the lid is open
- 4| Rotor and adapters with laser identification mark. Autoclavable

▶ Centrifuge CENTRO-4-BL



- 1| With oscillating rotor for 4 tubes of 75 x 13 mm.
- 2| With induction motor, maintenance-free.
- 3| Moulded exterior cabinet in ABS technical plastic.
- 4| Useful for blood centrifugation and obtaining platelet-rich plasma.

Code	GBF502
Height (exterior)	20 cm
Length	28 cm
Depth	34 cm
Power	170 W
rpm max.	5000
Rcf max.(xg)	2907
Weight	6 Kg

The oscillating rotor is delivered without tubes.

▶ Centrifuge CENTRO-8-BL



- 1| With angular rotor for tubes of 7-15 ml and 75 X 13 mm
- 2| With maintenance-free induction motor.
- 3| Moulded outdoor cabinet in ABS technical plastic

Code	GBF503
Volume max.	120 mL
Capacity	8 tubes x15 mL
Height (exterior)	20 cm
Length	28 cm
Depth	34 cm
Power	170 W
rpm max.	5000
Rcf max. (xg)	2515
Weight	6,5 Kg

Supplied with 8 glass tubes of 15 ml.

Accessories

Code	Description
GBK549	Bucket adapter for 7 ml tubes. Rotor capacity: 8 adapters.
GBK552	Bucket adapter for 75X13 VAC T. Rotor capacity: 8 adapters.



GBF - Bench top, digital



Models CENTROMIX BTL, MIXTASEL BLT, CENTRONIC BLT et CENTROFRIGER BLT

Common features

- 1| Full metal construction: Outdoor furniture manufactured made of Dur-Al alloy, Inner bowl and counter-lid made of stainless steel, Steel safety chamber between inner bowl and cabinet.
- 2| Rotor identification sensor (Centronic-BLT and Centrofriger-BLT models) which, when the rotor chamber lid is closed, communicates to the microprocessor all the operating limits of the rotor, thus avoiding any risk of error when programming these probes before start-up.
- 3| Microprocessor-controlled digital electronic card for the adjustment of all operating parameters: speed, acceleration, brake, RCF, temperature, time, storage for 10 programmes. Rotor identification and operating alarms
- 4| Induction operation, maintenance-free
- 5| Noise level 50-60 dBA.
- 6| Rotors, pots and adapters duly identified with a system laser engraving for an optimum selection
- 7| Air circulation system to limit excessive temperature increases inside the tank with minimum resistance
- 8| Hermetically sealed compressor unit, mounted on anti-vibration coupling with evaporator surrounding the inner bowl of the centrifuge (only refrigerated centrifuges)

Centrifuge CENTROMIX BLT

- 1| With rotors and interchangeable adapters. With maintenance-free induction motor.
- 2| Outdoor cabinet in DUR-AL alloy and stamped stainless steel bowl.

Code	GBF504
Volume maxi	120 mL
Capacity	4 tubes of 25 ml
Height (exterior)	23 cm
Length (exterior)	30 cm
Depth (exterior)	35 cm
Power	180 W
Weight	12 Kg



Interchangeable rotors and adapters



Angular Rotor
Code GLH501



Angular rotor PCR
Code GJK502

Swing-out cross head
Code GLH502



Code roto	Type of roto	Code adapter	Vol. max	Capacity tubes	Ø x Length m	rpm max	rcf max. (xg)
GLH501	Angular		120 ml	8 of 15 ml	16,5 x 100	4400	2063
GLH502	Swing-out						
		GLK510	100 ml	1 of 25 ml	24 x 100	4400	2601
		GLK511	60 ml	1 of 15 ml	16,5 x 100	4400	2601
		GLK512	28 ml	1 of 7 ml	12 x 100	4400	2601
		GLK526	40 ml	2 of 5 ml VAC	13 x 75	4400	2163
		GLK513	60 ml	VAC	16 x 100	4400	2601
		GLK514	-	blind	-	4400	2601
GJK502	Angular PCR		6,4 ml	32 of 0.2 ml	-	12000	12500

Note: All rotors and adapters are delivered without tubes which can be added as accessories.



▶ GBF - Bench top, digital

▶ Centrifuge MIXTASEL-BLT



- 1 | With maintenance-free induction motor
- 2 | Versatile. With rotor and interchangeable adapters
- 3 | Outdoor cabinet in DURAL alloy, lids and front covered in ABS. Inner basin stamped in stainless steel

Code	GBF505
Volume maxi	400 mL
Capacity maxi	4 tubes of 100 ml
Height (exterior)	34 cm
Lenght (exterior)	41
Depth (exterior)	54
Power	210 W
Weight	22 Kg

Angular rotor



- 1 | With lid, interchangeable, made of hard anodised aluminium.
- 2 | With identification mark. Autoclavable.

Code rotor	Max Volume	Capacity	Ø x Lenght	rpm max.	rcf max. (xg)
GLH513	270 mL	18 tube x 15 ml	16,5 x 100	4200	2669
GLH515	400 mL	8 tube x 50 ml	34 x 100	4200	1921

Reducers for rotor code GLH515

Code	Description
GLK528	For tube of 50 mL (29 Ø x 103 mm)
GLK529	For tube of 25 mL (24 Ø x 100 mm)
GLK530	For tube of 30 mL (25 Ø x 92 mm)
GLK531	For tube of 15 mL (16,5 Ø x 100 mm)
GBK510	For tube of 10 mL (16 Ø x 80 mm)
GBK511	For tube of 7 mL (12 Ø x 100 mm)
GBK512	For tube of 5 mL (12,5 Ø x 75 mm)

Reducers for adapter code GLK527

Code	Description
GBK509	For tube of 85 mL (38 Ø x 112 mm)

Angular rotor



Cod rotor	Type of rotor	Bucket normal	Bucket hermetic	Code apapter	Vol. max. (4 adaptateurs)	Tube capacity p/adapter	Ø x Long. mm	rpm max.	rcf max. (xg)
GNM521	Oscillant	GNP502	GNP503	GNP505	200 mL	1 of 50 ml	34 x 100	5000	4137
				GNP541	240 mL	2 of 30 ml	25 x 92	5000	4137
				GNP506	200 mL	2 of 25 ml	24 x 100	5000	4137
				GNP507	420 mL	7 x 15 ml & VAC*	16,5 x 100	5000	4137
				GNP543	240 mL	6 of 10 ml	17 x 110	5000	4137
				GNP508	336 mL	12 of 7 ml	12 x 100	5000	4137
				GNP509	240 mL	12 of 5 ml	12,5 x 75	5000	4137
				GNP544	140 mL	7 x 5 ml & VAC*	13 x 75	5000	4137
				GNP510	144 mL	12 of 3 ml	11 x 100	5000	4137
				GNP511	-	blind	-	5000	4137

* VAC: Blood extraction tube with cap.

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.



GBF - Bench top, digital

Centrifuge MIXTASEL-BLT



Angular rotor



Code rotor	Type of rotor	Bucket normal	Bucket hermetc	Code adapter	Vol. max. (4 adapters)	Tubes capacity p/adaptater	Ø x Long. mm	rpm max.	rcf max. (xg)		
GLH506	Oscillant	GLK527			400 ml	1 of 100 ml	44 x 104	4200	2901		
		GLK501			200 ml	1 of 50 ml	34 x 100	4200	2901		
		GLK502			100 ml	1 of 25 ml	24 x 100	4200	2901		
		GLK503			240 ml	4 of 15 ml	16,5 x 100	4200	2901		
		GLK504			140 ml	5 of 7 ml	12 x 100	4200	2901		
		GLK505			100 ml	5 of 5 ml	12,5 x 75	4200	2441		
		GLK507			240 ml	4 of 15 ml Falcon	16,5 x 120	4200	3030		
		GLK508			200 ml	1 of 50 ml Falcon	30 x 117	4200	3030		
		GLK513			16 VAC	4 VAC*	16 x 100	4200	2901		
		GLK516			16 VAC	4 VAC*	13 x 75	4200	2441		
		GLK506			blind	-	-	4200	2901		
				GLK517		Glass tube 100 ml**	400 ml	1 of 100 ml	44 x 104	4200	2901
				GLK517		GLK518	200 ml	1 of 50 ml	34 x 100	4200	2901
				GLK517		GLK519	100 ml	1 of 25 ml	24 x 100	4200	2901
				GLK517		GLK520	240 ml	4 of 15 ml	16,5 x 100	4200	2901
				GLK517		GLK521	140 ml	5 of 7 ml	12 x 100	4200	2901
		GLK517		GLK522	100 ml	5 of 5 ml	12,5 x 75	4200	2901		
		GLK517		GLK523	64 ml	4 VAC*	13 x 75	4200	2901		
		GLK517		GLK524	blind	-	-	4200	2901		

* VAC: Blood extraction tube with cap.

** The GNP502 and GNP503 jars allow the 200 ml lidded bottle to be coupled without reducer. The hermetic jar code GLK517 enables the 100 ml tube to be coupled without reducer.

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.

Centrifuge CENTRONIC-BLT and CENTROFIGER-BLT



- 1 | Large capacity of rotors and adapters. With maintenance-free induction motor.
- 2 | External cabinet in DUR-AL alloy, covers and front part covered in ABS.
- 3 | Stamped stainless steel inner bowl.
- 4 | Refrigerated with temperature selector adjustable from -12 to 40 °C.

Code	GBF506	GBF507*
Model	CENTRONIC-BLT	CENTROFIGER-BLT
Volume maxi	400 mL	400 mL
Capacity maxi	4 tubes of 100 ml	4 tubes of 100 ml
Height (exterior)	34 cm	34 cm
Lenght (exterior)	41 cm	41 cm
Depth (exterior)	54 cm	71 cm
Power	440 W	960 W
Weight	22 Kg	39 Kg

* Note: the temperature obtained in the chamber is limited by the type of rotor, speed and room temperature





GBF - Bench top, digital



Oscillant rotor



Code rotor	Type of rotor	Bucket normal	Bucket hermetic	Code reductor	Vol. max. (4 adapters)	Capacity tubes f/adapters	Ø x Lenght mm	rpm max.	rcf max. (xg)
GNM521	Oscillant	GNP502	GNP503	GNP505	200 mL	1 of 50 ml	34 x 100	5000	4137
				GNP541	240 mL	2 of 30 ml	25 x 92	5000	4137
				GNP506	200 mL	2 of 25 ml	24 x 100	5000	4137
				GNP507	420 mL	7 x 15 ml & VAC*	16,5 x 100	5000	4137
				GNP543	240 mL	6 of 10 ml	17 x 110	5000	4137
				GNP508	336 mL	12 of 7 ml	12 x 100	5000	4137
				GNP509	240 mL	12 of 5 ml	12,5 x 75	5000	4137
				GNP544	140 mL	7 x 5 ml & VAC*	13 x 75	5000	4137
				GNP510	144 mL	12 of 3 ml	11 x 100	5000	4137
				GNP511	-	blind	-	5000	4137

* VAC: Blood extraction tube with cap.

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.

Oscillant rotor



Code rotor	Type of rotor	Bucket normal	Bucket hermetic	Code adapter	Vol. max (4 adapters)	Tube capacity p/adaptater	Ø x Lenght mm	rpm max.	rcf max. (xg)
GLH507	Oscillant	GLK527			400 ml	1 of 100 ml	44 x 104	4200	2901
		GLK501			200 ml	1 of 50 ml	34 x 100	4200	2901
		GLK502			100 ml	1 of 25 ml	24 x 100	4200	2901
		GLK503			240 ml	4 of 15 ml	16,5 x 100	4200	2901
		GLK504			140 ml	5 of 7 ml	12 x 100	4200	2901
		GLK505			100 ml	5 of 5 ml	12,5 x 75	4200	2441
		GLK507			240 ml	4 of 15 ml Falcon	16,5 x 120	4200	3030
		GLK508			200 ml	1 of 50 ml Falcon	30 x 117	4200	3030
		GLK513			16 VAC	4 VAC*	16 x 100	4200	2901
		GLK516			16 VAC	4 VAC*	13 x 75	4200	2441
		GLK506			blind	-	-	4200	2901
			GLK517	Glass tube 100 ml**	400 ml	1 of 100 ml	44 x 104	4200	2901
				GLK518	200 ml	1 of 50 ml	34 x 100	4200	2901
				GLK519	100 ml	1 of 25 ml	24 x 100	4200	2901
				GLK520	240 ml	4 of 15 ml	16,5 x 100	4200	2901
				GLK521	140 ml	5 of 7 ml	12 x 100	4200	2901
				GLK522	100 ml	5 of 5 ml	12,5 x 75	4200	2901
				GLK523	64 ml	4 VAC*	13 x 75	4200	2901
				GLK524	blind	-	-	4200	2901

* VAC: Blood extraction tube with cap.

** The GNP502 and GNP503 reference jars allow the 200 ml lidded bottle to be coupled without reducer. The hermetic jar code GLK517 allows to couple the 100 mL tube without reducer.

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.



GBF - Bench top, digital



Angular rotor

Angular rotors with cover, interchangeable, made of solid anodised aluminium. With identification mark. Autoclavable.



Code rotor	Type of rotor	Volume max	Capacity tubes	Ø x Lenght mm	CENTRONIC BL-II		CENTROFRIGER BL-II	
					rpm max.	Rcf max (xg)	rpm max.	Rcf max (xg)
GLH509	Angular with lid	270 ml	18 x 15 ml	16,5 x 100	4200	2669	4200	2669
GLH514	Angular with lid	400 ml	8 x 50 ml	34 x 100	6000	3920	6000	3920
GLH505	Angular with lid	500 ml	6 x 50 ml	29 x 103	6000	18844	6000	24204
GLH504	Angular with lid	180 ml	6 x 30 ml	25 x 92	13500	15890	15300	20410
GLH503	Angular with lid	100 ml	10 x 10 ml	16 x 80	13500	18335	15300	23550
GLH510	Angular with lid	40,5 ml	18 x 0,25/0,5 ml + 18 x 1,5/2,2 ml	-	13500	15992	15300	20541
GLH511	Angular with lid	60 ml	40 x 0,25/0,5 ml	-	13500	13298	15000	20120
GLH512	Angular with lid	45 ml	30 x 1,5/2,2 ml	-	13500	19048	15000	23716
GLH508	Angular with lid	Microhematocrit	24 ml	1,4 x 75	12000	15935	12000	15935
GJK502	Angular PCR	6,4 ml	32 de 0.2 ml	-	12000	12500	12000	12500

Adapters for rotor code GLH514

Code	Description
GLK528	For 1 tube of 50 ml (29 Ø x 103 mm)
GLK529	For 1 tube of 25 ml (24 Ø x 100 mm)
GLK530	For 1 tube of 30 ml (25 Ø x 92 mm)
GLK531	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK510	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK511	For 4 tubes of 7 ml (12 Ø x 100 mm)
GBK512	For 4 tubes of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GLH504

Code	Description
GBK527	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK528	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK529	For 1 tube of 7 ml (12 Ø x 100 mm)
GBK530	For 1 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GLH503

Référence	Description
GBK531	For 1 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GLH505

Code	Description
GBK521	For 1 tube of 25 ml (24 Ø x 100 mm)
GBK522	For 1 tube of 30 ml (25 Ø x 92 mm)
GBK523	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK524	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK525	For 1 tube of 7 ml (12 Ø x 100 mm)
GBK526	For 2 tubes of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GLH509

Code	Description
GBK549	For 1 tube of 7 ml (12 Ø x 100 mm)
GBK552	For 1 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GLH503

Référence	Description
GBK509	For 1 tube of 85 ml (38 Ø x 112 mm)

Models MEDITRONIC BTL, MEDIFRIGER BLT, MACROTRONIC BLT and MACROFRIGER BLT



Common features

- 1| Induction motor, maintenance-free
- 2| Noise level 50-60 dBA
- 3| All-metal construction: outdoor furniture made of Dur-Al alloy, inner tank and counter lid made of stainless steel, steel safety chamber between inner tank and cabinet
- 4| Microprocessor-controlled digital electronic board to control all the operating parameters: speed, acceleration, brake, RCF, temperature, time, storage for 10 different programmes, rotor identification and operating alarms.
- 5| Rotor identification sensor, which, when the rotor is closed, is

- 6| centrifugation chamber cover, communicates to the microprocessor all the operating limits of the rotor, thus avoiding any risk of error when programming these meters before starting up.
- 7| Rotors, pots and adapters duly identified with an unalterable laser engraving system for an optimum choice
- 7| Air circulation system for centrifuges without refrigeration to limit excessive temperature increases inside the bowl with minimum resistance
- 8| Hermetically sealed compressor unit, mounted on anti-vibration coupling with evaporator surrounding the inner bowl of the centrifuge (only refrigerated centrifuges).



▶ GBF - Bench top, digital

▶ MEDITRONIC BLT and MEDIFRIGER BLT



- 1| Capacity up to 800 ml. With maintenance-free induction motor.
- 2| Outer cabinet in DUR-AL alloy and stamped stainless steel inner bowl. AISI 304 STAINLESS STEEL.
- 3| Model Medifriger-BLT, refrigerated with temperature selector adjustable from -12 to 40 °C.

Code	GBF508	GBF509*
Model	MEDITRONIC-BLT	MEDIFRIGER-BLT
Volume maxi	800 mL	800 mL
Capacity maxi	4 tubes of 200 ml	4 tubes of 200 ml
Height (exterior)	38 cm	38 cm
Lenght (exterior)	46 cm	68 cm
Depth (exterior)	52 cm	52 cm
Power	520 W	1230 W
Weight	44 Kg	70 Kg

* Note: the temperature obtained in the chamber is limited by the type of rotor, the speed and the room temperature, shown in the LCD display

Angular rotor



Code rotor	Typ of rotor	Volume maxi.	Capacity tubes	Ø x Lenght mm	MEDITRONIC BLT		MACROFRIGER-BLT	
					rpm max.	Rcf max (xg)	rpm max.	Rcf max (xg)
GNM504	Angular with lid	600 mL	6 of 100 ml	44 x 104	4500	3170	4500	3170
GNM505	Angular with lid	400 ml	8 of 50 ml	34 x 100	4600	3075	4600	3075
GNM506	Angular with lid	360 ml	24 of 15 ml	16,5 x 100	4800	3761	4800	3761
GNM514	Angular with lid	510 ml	6 of 85 ml	38 x 105	8000	6868	12000	15455
GNM513	Angular with lid	400 ml	8 of 50 ml	29 x 103	8000	7802	12000	15938
GNM512	Angular with lid	180 ml	6 of 30 ml	25 x 92	9000	7424	14000	17965
GNM511	Angular with lid	200 ml	20 of 10 ml	16 x 80	9000	8964	11000	13390
GNM510	Angular with lid	100 ml	10 of 10 ml	16 x 80	9000	7293	15000	20124
GNM509	Angular with lid	45 ml	30 of 1,5/2,2 ml	-	11000	12619	15000	23470

Adapters for rotor code GNM504

Code	Description
GBK501	For 1 tube of 50 ml (34 Ø x 100 mm)
GBK502	For 1 tube of 50 ml (29 Ø x 103 mm)
GBK503	For 1 tube of 25 ml (24 Ø x 100 mm)
GBK504	For 1 tube of 30 ml (25 Ø x 100 mm)
GBK505	For 3 tubes of 15 ml (16,5 Ø x 100 mm)
GBK506	For 3 tubes of (16 Ø x 80 mm)
GBK507	For 7 tubes of 7 ml (12 Ø x 100 mm)
GBK508	For 7 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM514

Code	Description
GBK513	For 1 tube of 50 ml (34 Ø x 100 mm)
GBK514	For 1 tube of 50 ml (29 Ø x 103 mm)
GBK515	For 1 tube of 25 ml (24 Ø x 100 mm)
GBK516	For 1 tube of 30 ml (25 Ø x 92 mm)
GBK517	For 2 tubes of 15 ml (16,5 Ø x 100 mm)
GBK518	For 2 tubes of 10 ml (16 Ø x 100 mm)
GBK519	For 5 tubes of 7 ml (12 Ø x 100 mm)
GBK520	For 5 tubes of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM512

Code	Description
GBK527	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK528	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK529	For 1 tube of 7 ml (12 Ø x 100 mm)
GBK530	For 1 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM505

Code	Description
GLK528	For 1 tube of 50 ml (29 Ø x 103 mm)
GLK529	For 1 tube of 25 ml (24 Ø x 100 mm)
GLK530	For 1 tube of 30 ml (25 Ø x 92 mm)
GLK531	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK510	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK511	For 4 tubes of 7 ml (12 Ø x 100 mm)
GBK512	For 4 tubes of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM513

Code	Description
GBK521	For 1 tube of 25 ml (24 Ø x 100 mm)
GBK522	For 1 tube of 30 ml (25 Ø x 100 mm)
GBK523	For 1 tube of 15 ml (16,5 Ø x 100 mm)
GBK524	For 1 tube of 10 ml (16 Ø x 80 mm)
GBK525	For 2 tubes of 7 ml (12 Ø x 100 mm)
GBK526	For 2 tubes of de 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM510 / GNM511

Code	Description
GBK531	For 1 tube of 5 ml (12,5 Ø x 75 mm)

Adapters for rotor code GNM506

Code	Description
GBK549	For 1 tube of 7 ml (12 Ø x 100 mm)
GBK552	For 1 tube of 5 ml (12,5 Ø x 75 mm)



▶ GBF - Bench top, digital



Oscillant rotor



Code rotor	Type of rotor	Bucket normal	Bucket hermetic	Code adapter	Vol. max. (4 adaptaters)	Tubes capacity p/adapter	Ø x Lenght mm	rpm max.	rcf max. (xg)
GNM521	Oscillant	GNP502	GNP503	-	800 mL	1 of 200 ml	56,6 x 104	5000	4137
				GNP504	400 mL	1 of 100 ml	44 x 104	5000	4137
				GNP505	200 mL	1 of 50 ml	34 x 100	5000	4137
				-	200 mL	1 of 50 ml Falcon	30 x 117	5000	4137
				GNP541	240 mL	2 of 30 ml	25 x 92	5000	4137
				GNP506	200 mL	2 of 25 ml	24 x 100	5000	4137
				GNP507	420 mL	7 x 15 ml & VAC*	16,5 x 100	5000	4137
				GNP525	180 mL	3 x 15 ml Falcon	16,5 x 120	5000	4137
				GNP542	-	4 of Ø.17 x 110 mm	-	5000	4137
				GNP543	240 mL	6 of 10 ml	17 x 110	5000	4137
				GNP508	336 mL	12 of 7 ml	12 x 100	5000	4137
				GNP509	240 mL	12 of 5 ml	12,5 x 75	5000	4137
				GNP544	140 mL	7 x 5 ml & VAC*	13 x 75	5000	4137
				GNP510	144 mL	12 of 3 ml	11 x 100	5000	4137
				GNP511	-	blind	-	5000	4137

* VAC: Blood extraction tube with cap.

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.

▶ MACROTRONIC BLT and MACROFRIGER BLT



- 1 | Versatile.
- 2 | Capacities from 1.5 / 2.2 ml micro-tubes to 500 ml bottles and 500 ml blood bags
- 3 | Maintenance-free induction motor
- 4 | DUR-AL alloy outer cabinet and stamped stainless steel inner bowl. AISI 304
- 5 | Model Macrofriger BLT refrigerated with temperature selector adjustable from -12 to 40 °C.



Code	GBF510	GBF511*
Model	MACROTRONIC-BLT	MACROFRIGER-BLT
Volume maxi	2000 mL	2000 mL
Capacity maxi	4 tubes of 500 ml	4 tubes of 500 ml
Height (exterior)	45 cm	97 cm
Lenght (exterior)	60 cm	60 cm
Depth (exterior)	66 cm	66 cm
Power	720 W	1230 W
Weight	76 Kg	156 Kg

* Note: The temperature obtained in the chamber is limited by the type of rotor, speed and room temperature shown on the LCD display.



GBF - Bench top, digital



Angular rotor



Code rotor	Type of rotor	Volume maxi.	Capacity tubes	Ø x Lenght mm	MACROTRONIC BLT		MACROFRIGER-BLT	
					rpm max.	Rcf max (xg)	rpm max.	Rcf max (xg)
GNM503	Angular with lid	600 ml	12 of 50 ml	34 x 100	4530	3785	4530	3785
GNM502	Angular with lid	840 ml	56 of 15 ml	16,5 x 100	4030	3268	4030	3268
GNM516	Angular with lid	1500 ml	6 of 250 ml	62 x 122	8000	10373	9000	13129
GNM517	Angular with lid	510 ml	6 of 85 ml	38 x 105	10000	10731	12000	15452
GNM518	Angular with lid	400 ml	8 of 50 ml	29 x 103	10000	11066	12000	15935
GNM519	Angular with lid	360 ml	12 of 30 ml	25 x 92	10000	12296	12000	17706
GNM520	Angular with lid	200 ml	20 of 10 ml	16 x 80	10000	11066	12000	15935

Oscillant rotor



Oscillant rotor
Code GNM515



Single bucket, 1 blood bag
Code GNP540

Adapter



Adapter for 3 plates of 96 microtiters.

Code rotor	Type of rotor	Code Single bucket	Code adapter	Volume max. (4 adapters)	Tube capacity for adapter	Ø x Lenght. mm	rpm max.	Rcf max. (xg)
GNM515	Oscillant	GNP540	GNP533	2000 ml	1 of 500 ml	70 x 165	3200	2358
			GNP545	1000 ml	1 of 250 ml	62 x 122	3200	2358
			GNP534	800 ml	1 of 200 ml	56,6 x 104	3200	2358
			GNP535	800 ml	2 of 100 ml	44 x 104	3200	2358
			GNP536	800 ml	4 of 50 ml	34 x 100	3200	2358
			GNP537	900 ml	9 of 25 ml	24 x 100	3200	2358
			GNP538	1020 ml	17 of 15 ml	16,5 x 100	3200	2358
			GNP539	672 ml	24 of 7 ml	12 x 100	3200	2358
-	-	-	-	3 plaq. x 96 microtiters	-	3200	2117	

Oscillant rotor



Oscillant Rotor
Code GNM501

Adapter



Tubes for sedimentation analysis in oils and petrochemicals according to ASTM standards. 200 high. x Ø.36 mm for jar. Code GNP529

Code rotor	Type of rotor	Code bucket normal	Code adapters	Volume max. (4 adapters)	Tube capacity for adapters	Ø x Long. mm	rpm max.	Rcf max. (xg)
GNM501	Oscillant	GNP523	1000 ml	1 de 250 ml	56 x 147	3520	3567	
		GNP529	4 x 1 ASTM	1 de ASTM conique		36 x 200	3720	3567
		GNP524	4 x 1 ASTM	1 de ASTM forme poire		58 x 158	3720	3567

Note: All rotors and adapters are supplied without tubes, which can be purchased as an accessory.



GBF - Bench top, digital



Oscillant rotor, jars and adapters



Rotor
Code GNM507

Normal bucket
Code GNP512

Sealed bucket for lid
Code GNP522

Oscillating rotor, pots, adapters and reducers interchangeable, with identification mark. Autoclavable

Adapter



Code rotor	Type of rotor	Code adapter	Code hermetic	Code adapter	Volume max. (4 adaptaters)	Tube capacity for adapters	Ø x Lenght mm	rpm max.	Rcf max. (xg)
GNM507	Oscillant	GNP512	GNP522	GNP530	800 ml	1 of 200 ml	56,6 x 104	5000	4615
				GNP547	500 ml	1 of 125 ml	51 x 115	5000	4615
				GNP513	400 ml	1 of 100 ml	44 x 104	5000	4615
				-	320 ml	1 of 80 / 85 ml	38 x 105	5000	4615
				GNP514	400 ml	2 of 50 ml	34 x 100	5000	4615
				GNP528	400 ml	2 of 50 ml Falcon	30 x 117	5000	4615
				GNP548	400 ml	2 of 50 ml	29 x 103	5000	4615
				GNP549	600 ml	5 of 30 ml	25 x 92	5000	4615
				GNP515	500 ml	5 of 25 ml	24 x 100	5000	4615
				GNP516	720 ml	12 VAC*	16,5 x 100	5000	4615
				GNP527	240 ml	4 of 15 ml Falcon	16,5 x 120	5000	4615
				GNP550	-	12 VAC*	13 x 75	5000	4615
				GNP551	480 ml	12 of 10 ml plastic	16,8 x 85	5000	4615
				GNP517	560 ml	20 of 7 ml	12 x 100	5000	4615
				GNP518	400 ml	20 of 5 ml	12,5 x 75	5000	4615
				GNP519	240 ml	20 of 3 ml	11 x 100	5000	4615
				GNP520	120 ml	20 of 1,5 / 2,2 ml	-	5000	4615
				GNP521	blind	-	-	5000	4615

* VAC: Blood extraction tube with cap.



▶ GBF - Bench top, digital



▶ Centrifuge MACROFRIGER BLT BLOOD

**Applications:**

Specially indicated for blood bank applications where the repetition and precision of speed, time, temperature and acceleration and braking ramps are decisive for the separation of the different blood components.

Security:

- Protected cylinder between the inner tank and the furniture. Blocking of the lid aperture when the rotor is in motion.
 - Blocking of the start up if the lid is open.
 - Automatic stop in case of imbalance.
 - Lid with double closure.
 - Electromagnetic. Manual opening of the lid in case of power failure.
- Safety stop push-button.

- 1| Adjustable temperature from 0 to 35°.
- 2| Vial capacity up to 1000 ml and especially for triple or quadruple blood bags of 800 ml. Maximum capacity of 12 bags.
- 3| With maintenance-free 0 induction motor
- 4| Furniture: internal structure in tubular steel with Dur-Al sides. Inner basin in stainless steel. Aluminium protector reducing air resistance. 8 mm steel safety ring.
- 5| Rotor, jars and adapters manufactured with high resistance material duly identified with an inalterable engraving.
- 6| Elastic suspension of the motor unit with high quality silent-block and radial shock absorbers that guarantee smooth, silent and vibration-free operation.
- 7| Semi-hermetic compressor unit, mounted on anti-vibration coupling, CFC-free
- 8| Fixing of the appliance by means of rubber brackets that adjust to the floor surface
- 9| Microprocessor-controlled digital electronic board for the control of all operating parameters: speed, acceleration, braking, R.C.F., temperature, time, memory for 20 different programmes, rotor identification and operating alarms.
- 10| Digital indicator of the number of operating hours of the rotor and the blood bag jars.

Control panel, touch screen



1. Key to enter settings.
2. Analogue speedometer.
3. Button for T.P.M. playback.
4. Button for R.C.F. reading.
5. Rampe d'accélération programmée.
5. Programmed acceleration ramp.
7. Temperature reading in real time. (refrigerated models only).
8. Model of rotor used.
9. Button to open the door.
10. Programmed T.P.M. or R.C.F..
11. Real time reading of T.P.M. or R.C.F.
12. Button to start the process.
13. Button to stop the process.
14. Programmed braking ramp.
15. Time programmed in the process.
16. Elapsed time indicator.

Code	GBF512
Volume max.	9600 mL (6x1600 mL)
Capacity max. du pot	1600 mL
Speed	from 300 to 4070 rpm
Stability	±5 rpm
Resolution rpm	10 rpm
Rcf	from 29 to 5370 g
Stability Rcf	±5 g
Resolution Rcf	4 g
Temperature	from -10° to +35°C
Temperature stability	±4°C
Temperature resolution	1°C
Minuterie	99mn, 59s
Centrifugation radius	290 mm
Acceleration ramps	5
Freinage ramp	9 linear, 6 quadratics
Dimensions	960x960x1050 mm
Weight	420 kg
Power	600 W
Power supply	230/400 V triphase + neutral



GBF - Bench top, digital



Oscillating rotor, jars and adapters

Interchangeable pots and adapters, with identification mark. Autoclavable.



6 places swing out rotor
Code GNM508



Double bucket for 2 blood bags
Code GNP531
Capacity 2 bags from 500 to 800 ml



Single bucket
Code GNP532
Capacity 1 blood bag from 500 to 800 ml
1 flask of 1 liter or adapters

Adapters for bucket code GNP532



Code dou bucket	Code single bucket	Code bucket adapter	Max. volume (6 adapters)	Capacity bagr or tubes for adapters	Ø x Lenght mm	Rpm from/to	Rcf (xg) from/to
GNM508	-	-	9600 ml	2 bags from 500 to 800 ml	-	300/4070	29/5370
-	-	Flacon of 1000 ml Code 41 001 394	6000 ml	1 flask of 1000 ml or 1 bag	98 x 175	300/4070	29/5370
-	GNP532*	GNP533	3000 ml	1 flask of 500 ml	70 x 165	300/4070	29/5370
-	-	GNP534	1200 ml	1 flask of 200 ml	56,6 x 104	300/4070	29/5370
-	-	GNP535	1200 ml	2 tubes of 100 ml	44 x 104	300/4070	29/5370
-	-	GNP536	1200 ml	4 tubes of 50 ml	34 x 100	300/4070	29/5370
-	-	GNP537	1350 ml	9 tubes of 25 ml	24 x 100	300/4070	29/5370
-	-	GNP538	1530 ml	17 tubes of 15 ml	16,5 x 100	300/4070	29/5370
-	-	GNP539	1008 ml	24 tubes of 7 ml	12 x 100	300/4070	29/5370

* Capacity without reduction: 1 bag of 500 to 800 ml, bottle of 100 ml
All rotors and adapters are supplied without tubes, which can be purchased as an accessory.



GBH - Hand centrifuge



- 1| For 15 ml tubes and ofbutyrometer tubes
- 2| With fixing device for fixing to the workbench
- 3| Allows to adapt a rotor for 2 or 4 tubes of 15 ml or for 2 butyrometers

Code	With rotor for	Max. speed t.p.m.	R.c.f. maxi.	Weight Kg
GBH501	2 tubes	1500	360	1,1
GBH503	4 tubes	1500	360	1,2
GBH504	2 butyrometers	1500	370	1,2

Supplied with rotor and metal sleeves.

Additional accessories

Code	Description
GBK551	Rotor for two tubes
GBK548	Rotor for four tubes
GLK525	Plastic bucket for 15 ml tubes
GBK550	Rotor for two butyrometers



G

CENTRIFUGES - [GB] single-rotor

[GD] minicentrifuges



GBK - Single-rotor, Accessories



Code	Description
GBK532	Plastic adapter f/tube 100 ml ø44 mm øext.62mm
GBK533	Plastic adapter f/tube 85 ml ø38 mm øext.62mm
GBK534	Plastic adapter f/tube 50 ml ø34 mm øext.62mm
GBK535	Plastic adapter f/tube 50 ml ø29 mm øext.62mm
GBK536	Plastic adapter f/tube 50 ml ø30 mm øext.62mm
GBK537	Plastic adapter f/tube 30 ml ø25 mm øext.62mm
GBK538	Plastic adapter f/tube 15 ml ø16.5 mm øext.62mm
GBK539	Plastic adapter f/tube 10 ml ø16 mm øext.62mm
GBK540	Plastic adapter f/tube 7 ml ø12 mm øext.62mm
GBK541	Plastic adapter f/tube 5 ml ø12.5 mm øext.62mm
GBK543	Plastic adapter f/tube 10 ml ø16 mm øext. 24 mm
GBK546	Plastic bucket for "CENCOM II" 6x15ml
GBK547	Adapter tube vac
GBK548	Rotor for four tubes
GBK550	Rotor for two butyrometers
GBK551	Rotor for two tubes
GBK553	1000 mL erlenmeyer adapter for ag-200-B

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GDC - Minicentrifuges

▶ 2507 series



- 1 | Suitable for PCR techniques, HPLC sample preparation and microfiltration.
- 2 | Includes angled head with adapters and strip head
- 3 | "Click" type head exchange system.
- 4 | Safety switch on the cover that stops the rotor in case of opening.
- 5 | Silent and stable thanks to its suction cup legs.
- 6 | Switching power supply 85-240V, 50/60Hz, except model 2507/25 suitable for car (DC12V)

Code	GDC001	GDC002	GDC003	GDC004
Model	2507/7	2507/11	2507/15	2507/25*
Capacity				
Angular rotor		8x1,5/2mL		
		8x0,5mL*		
		8x0,2mL*		
Strip rotor		4 strips of 8x0.2 mL		
Speed(rpm)	7000	10000	4000/7000/10000	
FCR max (g)	3260	5610	990/2910/5610	
Dimensions aprox. (cm)		16x18x13		
Weight aprox. (Kg)		0.8		

* car model

2507 series, rotors and adapters included

Rotor included



Angular rotor
for tubes 8x1,5/2mL,
8x0,5mL* and 8x0,2mL*

* car model



Strip rotor
4 strips of 8x0.2 mL

Adapters included



Adapter for microtubes
Code GDF001



Adapter for microtubes
Code GDF002

Code	Description
GDF001	Adapter for microtubes 0.2 mL
GDF002	Adapter for microtubes 0.5 mL



GDC - Minicentrifuges

Model Fugevet +



- 1 | Suitable for the veterinary sector
- 2 | Includes micro hematocrit tube head, angle head with adapters and strip head.
- 3 | "Click" type head exchange system.
- 4 | Safety switch on cover that stops the head in case of opening.
- 5 | Silent and stable thanks to its suction feet.
- 6 | Switching power supply 85-240V, 50/60Hz



Code	GDC005
Capacity	Rotor for 12 microhematocrit tubes Rotor for 8 microtubes: 8x1.5/2 mL, 8x0.5 mL*, 8x0.2 mL* Rotor for 4 criotubes: 4x5 mL, 4x1.8 mL* Strip rotor (4 strips of 8x0.2 mL)
Speed	4000/7000/12000 rpm
FCR	990/ 2910/ 5610 g
Dimensions aprox.	155 x 175 x 125 mm
Aprox. Weight	0,8 Kg
Power	AC 85-240V, 50/60Hz

* using the included adapters

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Fugevet +, rotors and adapters included

Rotor included



Microhematocrit rotor
for 12 tubes



Rotor for 8 microtubes
8x1.5/2 mL, 8x0.5 mL*,
8x0.2 mL*



Rotor for 4 criotubes
4x5 mL, 4x1.8 mL*



Strip rotor
4 strips of 8x0.2 mL

Compatible adapters (included) and accessories (not included)



Adapter for microtubes
Code GDF001



Adapter for microtubes
Code GDF002



Adapter criotubes
para criotubes 4x1.8 L



Microtubes PCR, PP
Code BGN003



Microtubes PP, 0.5 y 1.5 mL
Code BGN004

Code	Description
GDF001	Adapter for microtubes 0.2 mL
GDF002	Adapter for microtubes 0.5 mL

* using the included adapters

GDF - Minicentrifuges - accessories



Code	Description
GDF501	Sprout mini rotor 6 microt.
GDF502	Sprout mixte mini rotor
GDF503	Sprout rectangular mini rotor



GDC - Minicentrifuges

▶ Model MiniFuge-GD06



- 1| Compact and stable structure, great versatility and easy access, as well as smooth starting and gradual braking. LCD screen.
- 2| Faster acceleration / deceleration speed allows the experiment to be completed in a shorter time
- 3| The unique clip-on design of the rotor allows the rotor to be changed more quickly without the need for tools.
- 4| The safety system on the lid, as well as the over-speed and unbalance detection system ensures safe operation of the device.

Code	GDC006
Model	Mini digital centrifuge 2510 series
Speed range	500-12.000rpm
FCR max.	9660×g
RPM max.	12.000rpm
Timer	1-99min. /1-59sec.
Dimensions (LxAxH)	194×229×120mm
Weight	2kg
Power	AC100-250V/50/60Hz

MiniFuge-GD06, rotors included

1| Angular rotor
for tubes 4x5 mL2| Angular rotor*
for tubes 4x1.5/2/5 mL3| PCR rotor
4 strips of 12x0.2 mL4| PCR rotor
32x0.2 mL
12x1.5/2 mL5| Round hematocrit rotor
12x40mmx1.5mm

* adaptadores incluidos



GGC - Microhematocrit, bench top

▶ Models 2900 y 2924



- 1| Micro hematocrit rotor with numbered positions.
- 2| Safety switch on cover and mechanical safety lock.
- 3| Maintenance-free induction motor (Model 2924).



Code	GGC001	GGC002
Model	2900	2924
Control	Analógico	Digital
Capacity	24 Capilars	
Timer(min)	1-10	1-99
Speed(rpm)	Two speeds , 11000 ó 12000 / 500 - 12000 (steps of 100)	
FCR max (g)	15300	
Aprox. dimensions. (cm)	31x31x27	27x27x20
Weight aprox. (Kg)	15	12

Accessories models 2900 and 2924

Brush for centrifuge
Code GGF001Silicone joint head
Code GGF002

Code	Description
GGF001	Brush for centrifuge
GGF002	Silicone joint head



▶ GJC - Microtubes, bench top

▶ Model 2624/2



- 1 | Painted steel housing and base. Hangers on cover.
- 2 | Multiple heads in option, angular and/or micro hematocrit
- 3 | LED display and single-lever switch.
- 4 | Maintenance-free induction motor with elastic suspension system.
- 5 | Electromagnetic safety lock and manual opening mechanism.

Code	GJC002
Timer	1-99s / 1-99min / short pulses
Speed range (rpm)	100-15000 (steps of 10)*
FCR max (g)	20375 g*
Capacity	see disponible rotors
Aprox. dimensions. (cm)	36x28x26
Weight aprox. (kg)	15



Accessories model 2624/2, rotors not included



Rotor 24 microtubes
Code GJK001



Rotor 24 capilars
Code GJK002



Rotor 10 tubes
Code GJK003



Rotor 32 microtubes
Code GJK004



Rotor 36 microtubes
Code GJK005

Code	Description	Max speed	Max FCR
GJK001	24 microtubes 1.5 - 2 mL	15000 rpm	20375 g
GJK002	24 capilares microhematocrit	12000 rpm	15455 g
GJK003	10 tubes of 5 mL	13500 rpm	12920 g
GJK004	32 microtubes of 0.2 mL (PCR)	14800 rpm	16200 g
GJK005	36 microtubes 0.5 mL	13500 rpm	13250 g

▶ Model HiFuge-GJ6



- 1 | Metal base, plastic body and cover. Compact and silent design.
- 2 | Plastic angular rotor with cover.backlit LCD display.
- 3 | Possibility of programming speed or centrifugal force (FCR). Press function.
- 4 | Various safety devices.
- 5 | Manual opening of the lid in case of blockage.
- 6 | Brushless, maintenance-free DC motor.
- 7 | Adapters GJM002 and GJM003 for tubes of 0,2 mL and 0,5 mL respectively (not included)

Code	GJC006
Speed range	500-15000 rpm (increase of 100 rpm)
Range of FCR	100-15100 xg (increase of 100 xg)
Timer	30 sec - 99 min + HOLD mode continuous operation
Max. Capacity	12 x 2 mL
Acceleration / braking	11 s / 9 s
Dimensions (L x A x H)	270 x 250 x 170 mm
Weight	4,6 kg





GJC - Microtubes, bench top

▶ Centrifuge "Centrolit II-BL"



1 | Suitable for haematocrit and small vials of 0.25/0.5 ml and tubes of 1.5/2.2 ml. free maintenance induction drive motor.

Code	GJC501
Max. volume	66,6 mL
Max number of tubes	18 x 1.5 / 2.2 ml
Dimensions	20x28x34 cm
Power	200 W
Weight	6,5 Kg

▶ Centrifuge-stirrer Vortex "CM-70M"



1 | Multifunction: combines centrifugation and vortex system vibration in intensity and time.

2 | Maximum speed 7000 r.p.m.

3 | Mixed rotor for capacity up to 36 microtubes

Code	GJC502
Speed	1000 to 7000 r.p.m.
Steps	1000
Dimensions	115x170x190 mm
Max centrifugation	3200 xg
Power	38 W
Weight	1,3 Kg

▶ GJK,GJM - Accessories



Code	Description
GJK502	Angle rotor for 4 strips 8 x 0,2 ml pcr
GJK503	Angle + lid head. 40.5ml
GJK504	Head 24 microhaematocrit diam.1.4mm
GJK509	Rotor RT 173 (4x100 mL) pour Unicen 21
GJM501	Reader for microhaematocrit



▶ GLC - Universal, bench top

▶ Model2741, Medibas+



- 1| Stainless steel housing, base and inner tank.
- 2| Cover with metal base, suspension mechanism and sight glass.
- 3| Digital microprocessor control, LED displays and single-lever switch.
- 4| Swivel rotor and adapters for different tubes, all autoclavable.
- 5| Electromechanical closure which prevents the lid from opening during centrifugation.
- 6| Manual opening of the lid in case of power failure.
- 7| Safety system that automatically stops the equipment if the maximum speed is exceeded.
- 8| Speed programming in rpm or RCF.
- 9| Maintenance-free induction motor.

Code	GLC001
Capacity	4 x 100 mL 8 x 50 mL (Tubes type Falcon) 16 x 15 mL (Tubes type Falcon) 16 x 5-7 mL (using adapters GBK003) 16 x 10 mL (using adapters GBK002)
Timer(min)	1-99 / Pulse function
Speed range (rpm)	100-4000
FCR (g)	2630 / 2720 / 2790
No. of acceleration/braking ramps	9
Noise level	≤ 60 dB
Aprox. dimensions. (cm)	28x50x32
Weight aprox. (Kg)	34,5

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Accessories Medibas +, rotors included

Rotor included



1| Rotor 4 tubes for tubes 100 x40 mm



2| Rotor 8 tubes for tubes type Falcon



3| Rotor 16 tubes for tubes type Falcon



4| Rotor 16 tubes for tubes 5-7 mL*

Adapters (not included)



Adapter for tubes ¹
Code GBK002



Adapter for tubes ²
Code GBK003

1| For tubes of 13x100 mm with set of 16 x15 mL
2| For tubes of 13x75 mm with set of 16 x 15 mL



▶ GNC - High capacity, bench top

▶ Model 2751 Multibas+



- 1| Stainless steel housing and base. Stainless steel inner basin and steel safety chamber between basin and cabinet.
- 2| Lid with metal base, suspension mechanism and sight glass.
- 3| Swivel rotor to which various adapters (not included) can be attached for different types of tubes. Autoclavable rotors and adapters.
- 4| Digital control by microprocessor, backlit LCD display and single control selector.
- 5| Electromechanical closure that prevents the lid from opening during centrifugation.
- 6| Manual opening of the lid in case of power failure.
- 7| Safety system that automatically stops the equipment if the maximum speed is exceeded.
- 8| Speed programming in rpm or RCF. Maintenance-free induction motor.

Code	GNC001
Timer	1h 59' 59" / Pulse function
Speed range (rpm)	100-5000*
FCR max (g)	4980*
Programs	Memory for 9 programs
No. of acceleration ramps	10 (<35 s from 0 to Smax.)
No. of braking ramps	10 (<30 s from Smax. to 0)
Noise level	≤ 65 dB
Aprox. dimensions. (cm)	59x47x35
Weight aprox. (Kg)	32

* See rotor chart

Multibas+ accessories, rotors and adapters not included



Rotor 4 bottles
Code GNP002



Rotor 4 microtiter plates
Code GNP010



Bottles 250 mL
Code GNP001



Adapter set 4 tubes
Code GNP003



Adapter set 4 tubes
Code GNP004



Adapter set 8 tubes
Code GNP005



Adapter set 24 tubes
Code GNP006



Adapter set 32 tubes
Code GNP007



Adapter set 48 tubes
Code GNP008



Adapter set 72 microtubes
Code GNP009

Code	Description	Max speed	FCR
GNP001	Bottles with cap PP 250 mL	-	-
GNP002	Rotor 4 bottles, 250 mL	5000 rpm	2120 g
GNP003	Adapter set 4 tubes plastic 100 mL	5000 rpm	4600 g
GNP004	Adapter set 4 tubes plastic, type Falcon 50 mL	5000 rpm	4980 g
GNP005	Adapter set 8 tubes plastic, type Falcon 50 mL	4000 rpm	3040 g
GNP006	Adapter set 24 tubes, type Falcon 15 mL	4000 rpm	3040 g
GNP007	Adapter set 32 tubes, type Falcon 15 mL	4000 rpm	3040 g
GNP008	Adapter set 48 tubes, of 13 x 100 mm	4000 rpm	3040 g
GNP009	Adapter set 72 tubes, of 13x75 mm	4000 rpm	3040 g
GNP010	Rotor 4 microtiter plates	3500 rpm	2120 g



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[H]
OPTICAL
EQUIPMENTS



COMECTA

Zuzi

Nahita

UNA
TECHNIC

Kartell



nahita
blue



▶ HBB - Education

▶ Series 116

**Zuzi**

- 1| Monocular microscope with LED light and option of battery operation without the need for a power cable.
- 2| Monocular head inclined 45° and rotating 360°.
- 3| Macro and micro coaxial controls
- 4| Single lens fixed condenser with iris diaphragm and filter holder.

Code	HBB003
Model	116
Head	Monocular inclined 45° and rotary 360°
Eyepieces	WF10x/18 mm (Ø 23 mm)
Diopter correction	No
Nosepiece	Triple
Objetives	Achromatic 4x (NA:0,10); 10x (NA:0,25); 40x (R) (NA:0,65)
Stage	110 x 110 mm (clamps)
Focus	Coaxial knobs
Condenser	Fix single lens (A.N.: 0,65)
Diaphragm	Iris
Filter holder / Holder	Blue (Ø 32 mm)
Illumination	LED diode (adjustable)
Power	Adaptor (220V, 50/60Hz) Batteries 3x1,5V (AA)

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▶ 'E' Series



CODE - HBB010



CODE - HBB011

Zuzi

- 1| Models with monocular head (Model M-HB10) or binocular (Model B-HB11) are available. The head is inclined 30° and can be rotated 360°. The binocular model has interpupillary distance regulation and diopter adjustment in one of the eyepieces.
- 2| The eyepieces are fitted with fixing screws to prevent removal of the eyepiece tubes.
- 3| Inverted quadruple nosepiece with the lenses tilted in the opposite direction to the user for more comfortable handling of the preparations.
- 4| Double-bed mechanical stage with coaxial travel controls; the microscope has a screw to fix the maximum height of the plate and prevent it from hitting or damaging the objectives.
- 5| Built-in rechargeable batteries for working with the equipment without connection to the mains.

Code	HBB010	HBB011
Model	M-HB10	B-HB11
Head	Monocular	Binocular
	Siedentopf type; inclined 30° and rotary 360° Adjustable interpupillary distance (55-75mm)	
Eyepieces	WF10x/18 mm (Ø 23 mm)	
Nosepiece	Quadruple upside down	
Objetives	Achromatic objectives: 4X, 10X, 40X (R), 100X (R) (I)	
Stage	Double bed mechanical stage, size 115x 125 mm , movement 75x50mm	
Condenser	NA 1.25 Abbe type with iris diaphragm and filter	
Focus	Micro and macrometric controls. Focusing scale 0.02mm	
Illumination	LED 3W/4V, adjustable intensity	
Power	100-240V; 50-60Hz Rechargeable batteries 3x NiMH AA1400mAH 1.2V	



▶ HBC - Professional

▶ Series 100



- 1| Professional biological microscopes, handy and robust.
- 2| Head inclined 45° and rotary 360° with interpupillary distance adjustment and diopter correction.
- 3| Macro and micro coaxial controls with friction control ring and upper limit of focus.
- 4| Double-bedded mechanical stage with clamp to accommodate two slides.

Code	HBC002
Model	107
Head	Binocular
Eyepieces	WF10x/18 mm (Ø23 mm) + WF16x/11mm (Ø23 mm)
Interpupillary dist.	-53-72 mm
Diopter correction	±2 diopters (both eyepieces)
Nosepiece	Quadruple
Objetives	Achromatic and antifungals 4x (NA:0.10) 10x (NA:0.25) 40x (R) (NA:0.65) 100x (R)(I)(NA:1.25)
Stage	130 x 140 mm double bed mechanics
Condenser	Abbe (AN: 1.25)
Diaphragm	Iris
Filters	Blue and Green (Ø 32 mm)
Lamp	LED
Power	100-240V, 50/60 Hz



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▶ Series 'P'



- 1| Available with binocular head (model B-HC15) and trinocular (model T-HC16) type Siedentopf, inclined 30° and rotatable 360°. They have a diopter correction mechanism in both eyepieces and interpupillary distance regulation.
- 2| Inverted quadruple nosepiece with the lenses inclined in the opposite direction to the user to make the manipulation of the preparations more comfortable.
- 3| Double bed mechanical stage with coaxial translation controls and a sample clamp which can hold 2 slides simultaneously. The microscope has a screw to fix the maximum height of the slide and prevent it from hitting or damaging the objectives.
- 4| Ergonomically positioned macro and micro coaxial focusing controls; equipped with tension adjustment ring
- 5| Built-in rechargeable batteries for working with the equipment without connection to the mains.

Code	HBC015	HBC016
Model	B-HC15	T-HC16
Head	Binocular	Trinocular
	Siedentopf type; inclined 30° and rotary 360° Adjustable interpupillary distance (55-75mm)	
Eyepieces	WF10x/18 mm (Ø 23 mm)	
Nosepiece	Quadruple upside down	
Objetives	Objectives achromatic and antifungals 4X, 10X, 40X (R), 100X (R) (I).	
Stage	Double bed mechanical stage, size 132x 142 mm movement 75x50mm	
Condenser	NA 1.25 Abbe type with iris diaphragm and filter	
Focus	Micro and macrometric controls. Focusing scale 0.002mm	
Illumination	LED 3W/4V, adjustable intensity	
Power	100-240V; 50-60Hz Rechargeable batteries 3x NiMH AA1400mAh 1.2V	

* diopter adjustment in both eyepieces



CODE - HBC016



▶ HBC - Professional

▶ Series 122



- 1 | Siedentopf type head, 360° rotating and 30° inclined.
- 2 | Nosepiece inverted quadruple leaving more free space to work.
- 3 | Large double-bed mechanical stage with graduated scales and low, ergonomic travel controls.
- 4 | Macro and micro coaxial controls with friction control ring and upper focus limit lock.
- 5 | Köhler type lighting system with graduated diaphragm.
- 6 | Very comfortable and easy lamp change

Code	HBC008
Model	122/107
Head	Binocular
Eyepieces	WF10x/18mm (Ø23mm) WF16x/11mm (Ø23mm)
Interpupillary dist.	55-75mm
Diopter correction	± 5 diopters (left eye)
Nosepiece	Inverted quadruple
Objetives	Achromatics 4x (NA:0,10) 10x (NA:0,25) 40x (R) (NA:0,65) 100x (R) (I) (NA:1,25)
Stage	180 x 150mm Double bed mechanics
Illumination	Köhler
Condenser	Abbe (AN: 1,25)
Diaphragm	Graduated field and opening
Filters	Blue and Green (Ø 32 mm)
Lamp	Halogen
Power	85V-240V/50-60Hz

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▶ HBD - Digital

▶ Series 148



- 1 | Siedentopf binocular head inclined 30° and rotary 360°.
- 2 | Double bed mechanical stage with translation controls in lowered position.
- 3 | Macro and micro coaxial controls with friction control ring and enrique upper limit lock. Köhler type lighting system.
- 4 | TSVIEW image capture software included.

Code	HBD003
Model	148/7
Head	Binocular
Interpupillary dist.	55 - 75 mm
Diopter correction	Left eyepiece
Eyepieces	WF10x/22 mm (Ø30 mm)
Nosepiece	Inverted quadruple
Objetives	Plane achromatics corrected to the infinite 4x (NA:0,10) - 10x (NA:0,25) 40x (R) (NA:0,65) - 100x (R) (I) (NA:1,25)
Stage	180 x 150 mm Double bed mechanics
Focus	Macro/micro coaxial focusing
Condenser	Abbe (AN: 1,25)
Diaphragm	Graduated field and opening (Köhler type)
Filters	Blue, Green and yellow (Ø 32 mm)
Lamp	LED diode 1W (Regulable)
Power	100-240V, 50/60Hz
Camera	3,0 Mp, 2048 x 1536 pixels
Output	USB 2.0, Software TS View



▶ HBD - Digital

▶ Series 135/8

Zuzi

- 1| This model is the most basic equipment within Zuzi digital microscopes, being specially indicated for secondary schools and for those applications of initiation to the study of biology.
- 2| Monocular head inclined 45°, making it easier to use by students who are just starting out in microscopy.
- 3| Macro and micro coaxial focus controls for easier and more comfortable operation.
- 4| Height-adjustable Abbe condenser with iris diaphragm and filter holder.

Code	HBD004
Model	135/8
Head	Digital, Monocular, 45° 360°
Camera resolution	1280 x 1024 (1.3MPixel)
Software	ScopelImage 9.0
Operative system	Windows 2000 / XP / Vista
Output	USB 2.0
Range of field of view	75%
Eyepieces	WF10/18mm (ø 23 mm)
Objetives	Achromatics 4x (0.10), 10x (0.25), 40x R (0.65), 100x Oil-R (1.25)
Focus control	Macro/micro coaxial focusing
Mechanical stage	125mm x 115mm (70mm x 20 mm)
Condenser	Abbe type – 1.25 AN, with iris diaphragm and filter holder 32 mm
Filter	Green and white
Illumination	Lamp LED 1W, dimmable
Power	100-240v 50/60hz



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▶ Series 135/9

Zuzi

- 1| This is a model with slightly higher characteristics than the previous one, with a binocular head for applications that require longer observations, an inverted revolver that allows a more comfortable handling of the samples and with a larger mechanical platen surface to have a greater range of movement to explore the samples.
- 2| 30° inclined binocular head.
- 3| Macro and micro coaxial focusing controls for easier and more comfortable operation.
- 4| Height adjustable Abbe condenser with iris diaphragm and filter holder.

Code	HBD005
Model	135/9
Head	Digital, binocular; 30°; 360°
Camera resolution	1280 x 1024 (1.3MPixel)
Software	ScopelImage 9.0
Operative system	Windows 2000 / XP / Vista
Output	USB 2.0
Range of field of view	90%
Interpupillary Distance	48-75 mm
Eyepieces	WF 10/18mm (ø23 mm)
Eyepiece dioptric correction	Left eyepiece, ±5dpt
Objetives	Achromatics 4x (0.10), 10x (0.25), 40x R (0.65), 100x Oil-R (1.25)
Focus control	Macro/micro coaxial focusing
Mechanical stage	132mm x 142mm (74mm x 40mm)
Condenser	Abbe type – 1.25 AN, with iris diaphragm and filter holder 32 mm
Filter	Green
Illumination	Lamp LED 1W, dimmable
Power	100-240v 50/60hz





▶ HBF - Fluorescence

▶ Epi-fluorescence microscope



- 1 | Wide and solid base for good stability.
- 2 | 45° inclined head with interpupillary distance adjustment and diopter correction.
- 3 | Nosepiece sixfold with 4 flat achromatic lenses corrected to the infinite specially designed for fluorescence.
- 4 | Turret with different interchangeable positions to select the appropriate excitation and emission filters.
- 5 | Köhler system for transmitted light with field and aperture diaphragms and Abbe condenser with sliding top lens.
- 6 | Mercury lamp for fluorescence by reflected light with power supply with hours-of-use timer.

Code	HBF001
Model	158/358
Head	Triocular; 360°
Eyepieces	WF 10X/20 (ø30 mm)
Interpupillary dist.	50-75 mm with diopter correction
Nosepiece	Sixfold
Objetives	Plane apo-achromatic corrected to the infinite 4x, ∞ (A.N.: 0,15) - 10x, ∞ (A.N.: 0,35) 40x, ∞ (R) (A.N.: 0,75) - 100x, ∞ (R) (A.N.: 0,90)
Stage	180x160 mm. Double bed mechanics (80x50 mm)
Illumination	Köhler type, field diaphragm and graduated opening
Condenser	Abbe (AN: 1,25) deslizable
Lamp	
Epi-fluorescence	High pressure mercury lamp 20V, 100W
Transmitted	Halogen lamp 12V, 50W (adjustable)
Power	100-240V, 50/60Hz

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▶ Epi-fluorescence microscope LED



- 1 | It has 5W LED lights, with power regulator, and blue and green filters.
- 2 | Trinocular head inclined 30° rotatable 360° with interpupillary distance adjustment (48-75 mm).
- 3 | Nosepiece sixfold with 4 flat achromatic lenses corrected to the infinite specially designed for fluorescence.
- 4 | Turret with different interchangeable positions to select the excitation and emission filter cube of the most suitable wavelength for the fluorochrome used (filters included blue and green).
- 5 | Köhler system for transmitted light with field diaphragms and aperture and Abbe condenser with sliding top lens.

Code	HBF002
Head	Triocular tipo Sidentopf. Inclinado 30° and rotary 360°
Eyepieces	WF 10X /20 mm
Nosepiece	Quíntuple invertido
Objetives	Plane achromatics corrected to the infinite 4x, ∞ (0.10) - 10x, ∞ (0.25) - 20x, ∞ (0.40) 40x(S), ∞ (0.66(S)) - 100x, 1.25(Oil) (S)
Stage	180 x 145 mm double-bedded Movement 90 x 60 mm
Condenser	Abbe N.A. 1.25 with diaphragm
Illumination	Lamp LED 3W
Filter	Blue
Epi-fluorescence	LED Lamps blue and green 5W



HBG - Polarization

► Polarizing microscope Model 501

- 1 | Monocular head inclined 30° and rotary 360
- 2 | Rotary, circular and graduated stage with Vernier; with position fixing device.
- 3 | Graduated and rotary polarizing filters and analyzer.
- 4 | Sliding Bertrand lens of the optical path with plaster plates, mica and quartz wedge.
- 5 | Nosepiece quadruple with 3 central achromatic lenses.
- 6 | Height adjustable Abbe condenser with diaphragm iris

Code	HBG002
Model	501
Head	Monocular
Eyepieces	WF10x/20mm (Ø23mm)
Interpupillary dist.	Yes
Diopter correction	Left eyepiece
Nosepiece	Quadruple
Objetives	Achromatics 4x (NA:0,10) - 10x (NA:0,25) - 40x (R) (NA:0,65)
Polarizador	Rotary 3601°
Analizador	Rotary 90° (Vernier graduation)
Lente Bertrand	Sliding of the optical line
Placas accesorias	Plaster (1λ), mica (¼ λ) and quartz wedge
Stage	Circular (160mm) and rotary 360°
Illumination	Köhler type
Condenser	Abbe (AN: 1,25)
Diaphragm	Iris
Lamp	Halogen (12V, 30W)
Power	85-230V, 50/60Hz



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HBH - Metallurgical

► Series 101

- 1 | Very robust microscope with large dimensions and high stability especially suitable for the study of large samples
- 2 | Siedentopf binocular head inclined 30°.
- 3 | Mechanical stage with triple bed of big dimensions and wide displacement; with third layer for fast movements.
- 4 | Filter holder with yellow, green, blue and matt glass filters.
- 5 | Sliding optical path analyzer and polarizer filters.
- 6 | Lamp with centering system for correct adjustment

Code	HBH004
Model	101
Head	Triocular Tipo Siedentopf, 30°
Eyepieces	WF10x/22 mm wide field (Ø23 mm)
Interpupillary dist.	55-75 mm
Diopter correction	±5 diopters in the left eyepiece
Nosepiece	Quintuple Rotary en ambos sentidos
Objetives	Plane achromatics 5x (A.N.: 0,12) - 10x (A.N.: 0,25) 20x (A.N.: 0,40) - 40x (R) (A.N.: 0,60) - 80x (R) (I) (A.N.: 0,80)
Stage	250 x 230 mm Triple bed (154 x 154 mm)
Illumination	Köhler type
Condenser	Abbe (A.N.: 1,25) horizontally adjustable
Diaphragm	Graduated field and opening
Filters	Matt, blue, green and yellow
Lamp	Halogen 6V, 20W
Eq. polarized	Polarizer and sliding optical line analyzer
Power	110-220V, 50/60 Hz





▶ HBH - Metallurgical

▶ Metallurgical microscope



- 1 | Siedentopf type triocular head.
- 2 | Nosepiece quadruple with flat achromatic lens corrected to the infinite.
- 3 | Lighting system by reflected light and transmitted light.

Code	HBH005
Model	146 M
Head	Triocular Type Siedentopf, inclined 30° and rotary 360°
Eyepieces	2 uds WF10x/22 mm (Ø23 mm) 1 ud WF10x/20 mm with a grid of 0,1 mm
Interpupillary dist.	55-75 mm
Diopter correction	± 5 diopters in the left eyepiece
Nosepiece	Quadruple
Objetives	Plane achromatics Corrected to the infinite 4x, ∞ (A.N.: 0,10) - 10x, ∞ (A.N.: 0,25) 20x, ∞ (A.N.: 0,40) - 40x, ∞ (R) (A.N.: 0,65)
Stage	160 x 180 Doble lecho
Reflected illumination	
Lamp	Halogen 12 V, 30 W
Diaphragms	Field (centrable) and opening
Portafiltros	Rotary; green, blue, yellow and polarizing filters
Polarization system	Filter holder polarizer and slider analyzer of the optical and rotary line 360
Transmitted illumination	
Lamp	Halogen 12 V, 30 W
Diaphragms	Field in pre-condenser and opening (graduated)
Condenser	Abbe (A.N. 1.25); height-adjustable
Portafiltros	Mobile; green, blue and yellow filters
Power	85-220V, 50/60 Hz

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▶ Metallurgical microscope, model 403



- 1 | High-end metallographic microscope with inverted design for observation of high-volume samples.
- 2 | Triocular head inclined 45°.
- 3 | Fixed stage with mobile platform for sliding the samples.
- 4 | Nosepiece quadruple with flat achromatic lens corrected to the infinite.
- 5 | Köhler type lighting system with field and aperture diaphragms.
- 6 | Equipped with polarizing filter and rotary and graduated analyzer.

Code	HBH006
Model	403
Head	Triocular; Siedentopf; inclined 45°
Eyepieces	WF10x/22 mm wide field Ø 23 mm
Interpupillary dist.	50-75 mm
Diopter correction	Right
Nosepiece	Quadruple
Objetives	Plane achromatics corrected to the infinite 4x, ∞ (A.N.: 0,10) - 10x, ∞ (A.N.: 0,25) 20x, ∞ (A.N.: 0,40) - 40x, ∞ (A.N.: 0,65)
Stage	Fix 242 x 172 mm with mobile platform 128x186 mm
Illumination	Epi-Köhler
Condenser	Deslizable Abbe
Diaphragm	Graduated field and opening
Filters	Blue, green and yellow
Lamp	12V 30Ww
Power	85-220V, 50/60Hz



▶ HBJ - Inverted biological

▶ Series 180



- 1| Inclined head with interpupillary distance regulation and diopter correction.
- 2| Nosepiece with long-distance flat achromatic lenses; one of the lenses is phase contrast
- 3| Long distance condenser, centrable and adjustable with iris diaphragms and filter holder.
- 4| Large rectangular stage.

Code	HBJ001
Head	Triocular, 30°
Eyepieces	WF10x/18mm (Ø23mm)
Interpupillary dist.	55-75mm
Diopter correction	±5 diopters (left eye)
Nosepiece	Quadruple
Objetives	Plane achromatics of long distance 10x (A.N.: 0,25) Phase contrast 10x (A.N.: 0,25); 25x (A.N.: 0,40); 40x (R) (A.N.: 0,65)
Stage	200 x 150 mm Movement 70x30 mm
Condenser	Larga distancia con centrado y ajuste con anillo de contraste
Diaphragm	Field
Filter	Blue, yellow, green and neutral
Lamp	Halogen (6V, 20W) adjustable intensity
Power	220V/50 Hz



▶ HBK - Operation

▶ Series 191



- 1| Pantographic arm with long stroke for vertical head movement.
- 2| Star-shaped stand with 5 wheels and brake system.
- 3| Head with 3 easily interchangeable magnification positions.
- 4| Model 191/120 with auxiliary output C-mount for video camera and display installation through a computer or monitor.

Code	HBK001
Head	Straight
Objetives	200 and 300 mm; 250 and 400 mm (opcional)
Eyepiece magnification	6x
Magnification changer	3 positions: 0.6x, 1x, 1.6x
Total magnifications	3x-12x
Diopter correction	± 5D
Interpupillary Distance	52-78 mm
Beam separator	No
Conservation tube	No
Adaptor video	No
Micro focus range	10 mm
Filter	Integrated green and yellow
Illumination system	Coaxial with cold light source and fiber optic cable
Halogen lamp	21V, 150W; adjustable intensity
Output power	< 200W



Chart of magnification and field of view

NOMINAL VALUE






Objective	F=200 mm			F=250* mm			F=300 mm			F=400* mm		
	1.6x	1x	0.6x	1.6x	1x	0.6x	1.6x	1x	0.6x	1.6x	1x	0.6x
Magnification switch position	1.6x	1x	0.6x	1.6x	1x	0.6x	1.6x	1x	0.6x	1.6x	1x	0.6x
Total magnification	12x	7.5x	4.7x	9.6x	6x	3.7x	8x	5x	3x	6x	3.8x	2.3x
Field diameter (mm)	15.8	25.3	40.6	19.7	31.6	50.7	23.6	37.9	60.8	31.5	50.5	81
Exit pupil diameter (mm)	1.04	1.66	1.04	1.66	1.04	1.66	1.04	1.66		1.04	1.66	
Exit pupil distance (mm)	15.3			15.3			15.3			15.3		
Resolution (LP/mm)	67	44.5	29.7	60	35.4	27	47.2	31.5	23.6	35	27	19.8

* opcional



HBL - Accessories, condensers

CHART 1: 'condenser accessories for series 100 and 122'


	Code	Capacity	Model	
			100	122
	HBL001*	Condenser Abbe, 1,25 A.N.	<input type="checkbox"/>	
	HBL002	Dry dark field condense numerical aperture 0,9		<input type="checkbox"/>
	HBL003	Immersion dark field condenser, numerical aperture 1,25		<input type="checkbox"/>
	HBL004	Dark field condenser dry numerical aperture 0,9	<input type="checkbox"/>	
	HBL005	Dark field condenser oil numerical aperture 1,25	<input type="checkbox"/>	

*Code available until end of stock

= Accessory compatible with the indicated equipment

HBM - Accessories, phase contrast

CHART 2: 'accessories for phase contrast models 122/107, 122/108, 122/147, 122/148 y serie 158'

	Code	Description	Model
			122/107
	HBM001*	Single annular phase contrasts Achromatic objectives 10x, 40x (R), 100x (R) (I). Centring eyepiece (Ø 23 mm)	<input type="checkbox"/>




*Code available until end of stock

= Accessory compatible with the indicated equipment



▶ HBN - Accessories, polarization

▶ CHART 3: 'polarization accessories 100, 118, 122, 128 and 137'

	Code	Capacity	Model				
			100	118	122	128	137
	HBN001	Basic polarization set Head filter: Ø 23 mm Precondenser filter: Ø 55 mm	<input type="checkbox"/>				
	HBN003	Simple polarization set Head filter: Ø 18 mm Precondenser filter: Ø 55 mm			<input type="checkbox"/>		
	HBN002*	Petrographic round stage 120x100 mm Includes head and precondenser Graduated scale from 0-350 (360°)		<input type="checkbox"/>			<input type="checkbox"/>
	HBN004*	Petrographic stage with polarization Graduated scale from 0-350 (360°)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Code available until end of stock

= Accessory compatible with the indicated equipment

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▶ HBP - Accessories, objectives

Code	Description
Achromatic objectives	
HBP001	Achromatic objectives 4X Numerical aperture (A.N.) 0.10
HBP002	Achromatic objectives 10X Numerical aperture (A.N.) 0.25
HBP003	Achromatic objectives 20X Numerical aperture (A.N.) 0.40
HBP004	Achromatic objectives 40x (R) Numerical aperture (A.N.) 0.65
HBP005	Achromatic objectives 60x (R) Numerical aperture (A.N.) 0.85
HBP006	Achromatic objectives 100x (R) (I) Numerical aperture (A.N.) 1.25
Plan achromatic objectives	
HBP007	Plan achromatic objectives 4x Numerical aperture (A.N.) 0.10
HBP008	Plan achromatic objectives 10x Numerical aperture (A.N.) 0.25
HBP009	Plan achromatic objectives 20x Numerical aperture (A.N.) 0.40
HBP010	Plan achromatic objectives 40x (R) Numerical aperture (A.N.) 0.65
HBP011	Plan achromatic objectives 100x (R) (I) Numerical aperture (A.N.) 1.25
Plan apo-chromatic objectives	
HBP012	Semi-plan achromatic objectives 4X
HBP013	Semi-plan achromatic objectives 10X
HBP014	Semi-plan achromatic objectives.40x/R
HBP015	Semi-plan achromatic objectives. 100X R/I
Objetivos plano apo-acromáticos fluorescencia	
HBP016	Fluorescence plan apo-chromatic objective, 20x (R). Numerical aperture (A.N.) 0.25
Achromatic short objectives	
HBP022	Achromatic objective short 4x Numerical aperture (A.N.) 0.10
HBP023	Achromatic objective short 10x Numerical aperture (A.N.) 0.25
HBP024	Achromatic objective short 40x (R) Numerical aperture (A.N.) 0.65
HBP025	Achromatic objective short 100x (R) (I) Numerical aperture (A.N.) 1.25
Operational microscopes objectives	
HBP026	Objective F250, series 191
HBP027	Objective F400, series 191



▶ HBQ - Accessories, eyepieces

Code	Description
HBQ001	Wide field eyepiece WF10x/18 mm. Diameter 23 mm
HBQ002	Wide field eyepiece WF16x/11 mm. Diameter 23 mm
HBQ003	Wide field eyepiece point WF10x. Diameter 23 mm
HBQ004	Wide Field eyepiece with micrometer WF 10x/18 mm. Diameter 23 mm
HBQ005	Photographic eyepiece 4x. Diameter 23 mm
HBQ006*	Extra wide field eyepiece WF10x/21 mm. Diameter 23 mm
HBQ007	High point eyepiece WF10x/18,5 mm. Diameter 23 mm
HBQ008*	Eyepiece WF10x /22 mm. Diameter 30mm
HBQ009*	Eyepiece WF16x. Diameter 30 mm
HBQ010*	Eyepiece micrométrico WF10x/22 mm. Diameter 30 mm
HBQ011*	Huygens eyepiece 10x. Diameter of 23 mm
HBQ012*	Huygens eyepiece 5x. Diameter of 23 mm
HBQ013*	Plain eyepiece 10x. Diameter of 23 mm
HBQ014*	Eyepiece WF15x. Diameter of 23 mm

* Code available until end of stock

▶ HBR - Accessories, others

Code	Description
Stages	
HBR010	Heating Stage Serie of RT at -50°C for models 100/122
HBR014	Mechanical stage for models 119/116/128
Video-photography	
HBR006	Photographic attachment T mount
Condenser, diaphragm, lighting	
HBR004	Diaphragm iris for series 100
HBR005	Halogen Lamp 6V, 20W
HBR008*	Filter for condenser, green (Ø 32 mm)
HBR009	Filter for condenser, blue (Ø 32 mm)
HBR012	Halogen Lamp 6V, 15W
HBR015	Epi-fluorescence lamp
HBR016*	Halogen Lamp 24V, 100W
HBR017*	Halogen Lamp 12V, 50W
HBR021*	Dicroic halogen lamp 15V 150W
HBR025*	Halogen Lamp 12V 20W
HBR027*	Electric Illuminator
For operating microscopes	
HBR022*	Wall stand for microscope for model 191
HBR023*	Table stand for microscope for model 191
HBR024*	Coobservation monocular tube for model 191/120
Others	
HBR001	Microscope cover, Dimesions 300x307x400
HBR002	Lens tissues 110x85 mm, b/50
HBR003	Microscope cleaning kit
HBR011	Plastic dust cover for professional microscopes
HBR013	AC/DC adapter 230V/5.5V 200mA for model 116
HBR020	Dust cover inverted microscope
HBR028	Double head for demostration, Series 116, 119 y 128

* Code available until end of stock



HDB - Education

Series 200



- 1| For teaching in the observation of minerals or small animals.
- 2| Binocular head with interpupillary distance regulation and diopter correction.
- 3| Bilateral controls for focusing through a rack and pinion mechanism.
- 4| Black/white contrast stage and frosted glass stage.

Code	HDB002
Head	Binocular, inclined 45°
Eyepieces	WF10x/20mm (ø 30.5 mm)
Interpupillary dist.	55-75mm
Diopter correction	± 5 mm diopters
Objectives	2x/4x
Working distance	60 mm
Stage	B/W and frosted glass with clamps (95 mm)
Illumination	Incident and transmitted
Power	220V, 50/60 Hz



Series 250



- 1| Compact stereo microscope with carrying handle
- 2| Binocular head with diopter correction
- 3| Incident and transmitted LED light adjustable in 5 intensities

Code	HDB005
Head	Inclined binocular 45°
Eyepieces	WF10x/20 (ø 30.5 mm)
Interpupillary dist.	54-76 mm
Diopter correction	± 5 mm diopters (left eye)
Objectives	2x y 4x
Working distance	76 mm
Stage	60 mm
Illumination	Incident and transmitted adjustable, LED
Power	100V-240V/4.5V



HDD - With zoom

'Z' Series



- 1| Stereo microscope with 0.7x to 4.5x zoom
- 2| Wide field eyepieces with diopter adjustment in both eyepieces
- 3| Fine but wide base with great stability. Double working distance. Rubber blinkers and eye caps

Code	HDD011	HDD012
Head	Binocular 45°; 360°	Triocular 45°; 360°
Eyepieces	WF10x/20 mm (ø 30 mm)	
Diopter correction	± 5 dps in the 2 eyepieces	
Interpupillary Distance	55-75 mm	
Objective	1x	
Zoom	0.7x-4.5x	
Working distance	35 y 100 mm	
Stage	Translucent and Black/White	
Plate size	60 mm, with clamps	
Illumination	Incident and transmitted. LED 3W	



CODE - HDD012



CODE - HDD011

Chart of magnification series Z

Zoom	Objetives	Eyepiece WF10X		Eyepiece WF15X		Eyepiece WF20x	
		Magnification	Ø field (mm)	Magnification	Ø field (mm)	Magnification	Ø field (mm)
0.65x	0.5x	3.25x-22.5x	57.1-8.9 mm	4.8x-33.75x	42.8-6.7 mm	6.5x-45x	28.6-4.4 mm
	1.0x	6.5x-45x	28.6-4.4 mm	9.75x-67.5x	21.1-3.3 mm	13x-90x	14.3-2.2 mm
4.5x	1.5x	9.75x-67.5x	19-3 mm	14.62x-101.25x	14.3-2.2 mm	19.5x-135x	9.5-1.5 mm
	2.0x	13x-90x	14.3-2.2 mm	19.5x-135x	10.7-1.7 mm	26x-180x	7.1-1.1 mm



▶ HDG - Accessories, objectives

▶ Chart of accessories for stereomicroscopes: objectives 

Code	Description
HDG001*	Objective 1x for series 200
HDG002*	Objective 2x for series 200
HDG003	Objective 3x for series 200
HDG004*	Objective 4x series 200
HDG005*	Objective 0.5x for series 230
HDG006	Objective 2x for series 230/240
HDG010	Objective 0.3x for video-microscopes LCD
HDG011	Objective 0.5x for video-microscopes LCD
HDG012	Objective 0.75x for video-microscopes LCD
HDG013	Objective 1.5x for video-microscopes LCD
HDG014	Objective 2x for video-microscopes LCD
HDG015	Adaptor 35° 3D with objective 0.75x for video-microscopes LCD
HDG016	Objective 0,5x series Z
HDG017	Objective 1,5X series Z
HDG018	Objective 2X series Z

* code available until end of stock

▶ HDH - Accesorios, eyepieces

▶ Chart of accessories for stereomicroscopes: eyepieces 

Code	Description
HDH001	Eyepiece 5x for series 200/234
HDH002	Eyepiece 10x for series 200/234
HDH003	Eyepiece 15x for series 200/234
HDH004	Eyepiece 20x for series 200/234
HDH005	Eyepiece micrometer 10x for series 200/234
HDH006	Eyepiece 10x for series 230/240/Z
HDH007	Eyepiece 15x for series 230/240/Z
HDH008	Eyepiece 20x for series 230/240/Z
HDH009	Eyepiece micrometer 10x for series 230/240/Z
HDH010	Eyepiece foto 2.5x for series 230/240/Z
HDH011	Photographic eyepiece 5x for series 230/240/Z
HDH012	Eyepiece micrometer 20x for models 250/5 250/230
HDH013	Eyepiece WF 6.25X for models 250/5 250/230

▶ HDK - Accessories, others

▶ Cold light source



- 1 | For microscopic examinations, illumination of specific regions or examinations of light-sensitive samples.
- 2 | High-powered lamp, no colour change or heat release.
- 3 | Double flexible arm of 50 cm length and mechanism of continuous regulation of the light intensity.
- 4 | Includes two Köhler condensers and devices for the placement of color filters.

Code	HDK001
Range espectral	450-700 nm
Halogen lamp	21 V / 150 W
Dimensions	208x105x124 mm
Weight	1 kg
Power	CA 220 V, 50-60 Hz

** Optional 110V under request; Ref HDK001V



HDK - Accessories, others

Code	Description
Illumination	
HDK002	21V 150W lamp for cold light source
HDK003	Halogen lamp 12V 10W for series 200/234
HDK012	Halogen lamp 6V 12W
HDK013	Dicroic halogen lamp 6V 15W
HDK017	Dicroic halogen lamp 12V 10W
HDK020	Dicroic halogen lamp 12V 100W
HDK021	Lamp 6V 15W for series 250
HDK022	Double adjustable illuminator 15w
HDK025	Fluorescent ring lamp
Others	
HDK004	Pair of clips for holding slides for series 200
HDK005	White/Black Contrast stage plate for series 200/234, 95 mm
HDK006	Pair of blinkers for stereomicroscope
HDK007	Ground glass stage plate (95mm) for series 200/234
HDK008	Plastic dust cover
HDK009	Ground glass stage plate (60 mm) for model 220
HDK014	Black/white contrast stage (75 mm) for model 230
HDK015	Ground stage (75 mm) for model 230
HDK019	Ground stage for series 240 (diam. 120 mm)

Light source, cold source, fibre optic "Z-150"



- 1 | Halogen lamp 150 W. Adjustable illumination intensity control.
- 2 | Forced air circulation.
- 3 | Heat absorption filter.
- 4 | Safety transformer fitted. Primary fuse protection.

Code: HDK502 - Halogen lamp -cold light-150 W

Code	Dimensions	Power	Weight
HDK501	15x19x25 cm	150 W	4 Kg



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HGB - Videocameras

- 1 | They can be used with any kind of microscopes or stereomicroscopes that use standard eyepieces (of 23, 30 and 30.5 mm respectively). The image capture software allows the capture of images and the visualization of videos in real time. Image storage in several formats (jpg, tiff, bmp, gif, psd, etc.) Measures of length, angle and area of structures of interest
- 2 | Optimization of colour, brightness or contrast parameters

Code	HGB004	HGB005
Sensor	1/2.2"CMOS	1/2.5"CMOS
Max resolution	2592x1944	3264x2448
Speed max resolution	<7 FPS	<1 FPS
Sensibility (v/lux-s a 550 nm)	1.2	1.3
Dinamic range	67 dB	75 dB
Wave length	400-600 nm (with cut-off filter IR)	
Eye piece diameter	23 mm (includes 30 and 30.5 mm adaptor)	
Dimensions	Cylindrical metal body, 50 mm diameter	
White setting	Automatic/Manual	
Interface	USB 2.0, 480 Mb/s; wire length 2.5 m	





HGF - Tablets

▶ Tablet 9.7"



- 1| Tablets are perfect accessories for microscopes that will facilitate image viewing and analysis.
- 2| They are robust and easy to use because of their touch screen, plus they have two USB outputs that can be used for a keyboard and mouse.
- 3| The built-in application allows image editing, measurement and particle counting.
- 4| Tablet with C thread connection. Also includes 23mm adapter - Ref. HGG001

Code	HGF001
Screen	9,7 inch. Touch screen with Android system
Operative system	Android
Camera	5.0 Megapixel
Sensor	GC5033 de 1/2.5 inch
Resolution	1536x2048
Interface output	USB 2.0, HDMI, TF card, WIFI
Pixel size	2,8 μm x 2.8 μm
Power	DC-12V
Analysis software	Software S-eye
RAM	2GB
Hard disk	6GB
Processor	Android RK3288 1.8GHz Quad Core A17

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▶ Tablet 11.6"



- 1| Tablets are perfect accessories for microscopes that will facilitate image viewing and analysis.
- 2| They are robust and easy to use because of their touch screen, plus they have two USB outputs that can be used for a keyboard and mouse.
- 3| The built-in application allows image editing, measurement and particle counting.
- 4| Tablet with C thread connection. Also includes 23mm adapter - Ref. HGG001

Code	HGF002
Screen	11,6 inch touch screen monitor LCD
Operative system	Windows 10
Camera	16 Megapixel
Sensor	MN34120 de 1/2.3 inch
Resolution	4032 x 3024
Interface output	USB 2.0, HDMI, SD card, WIFI
Pixel size	1.335 μm x 1.335 μm
Power	DC-12V
Analysis software	Software S-eye
RAM	4GB
Hard disk	60GB
Processor	Intel Atom x5-Z8350 CPU @ 1.44GHz

▶ HGG - Accessories for tablets

▶ Adapters



CODE - HGG001 CODE - HGG002 CODE - HGG003

- 1| Microscope and stereo adapters.
- 2| HGG001* included with HGF001 and HGF002 tablets.

Code	Adaptor for
HGG001*	23 mm
HGG002	30 mm
HGG003	30.5 mm



▶ HGG - Accessories for tablets

▶ Calibration slides



1| Graduated slide for the calibration of digital cameras/tablets

Code	Scales
HGG004	Scales 1 mm / 100 Divisions 0.01mm
	Scales 1 mm / 100 Divisions 0.1 mm



▶ HJB - Visible

▶ Series 4100



- 1| Manual wavelength selector and digital display.
- 3| Absorbance and transmittance measurements in visible range.
- 4| Model 4111RS allows calculation of concentrations by taking a sample of known concentration as a reference or by entering the value of the factor F ($Abs = F \times conc$). Application software based on Windows operating system is available.
- 5| Includes two glass cuvettes and a black cell for autozeroing.



Code	HJB001	HJB002
Model	4101	4111RS
Wavelength range	330 – 1000nm	
Optic system	Single beam, 1200 line/mm grid	
Bandwidth	8nm	
Wavelength accuracy	±2nm	
Wavelength resolution	±1nm	
Photometric range	0-100%T; 0-1,999A; 0-1999C; 0-1999F	
Detector	Silicon photodiode	
Tray	For 2 cuvettes of 10 mm	
Output	----	RS232
Power	110V 60Hz / 220V 50Hz by means of a manual changer	

CODE - HJB002

▶ Series 4201/20



- 1| Manual wavelength selector. White and auto zero easy to perform.
- 2| Absorbance, transmittance and concentration readings (factor method).
- 3| Includes MWave Basic Software to work via PC.

Code	HJB003
Wavelength range	325-1000nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4nm
Wavelength accuracy	±2nm
Wavelength resolution	±1nm
Photometric range	-0,097 - 1,999A, 0 - 125%T
Detector	Silicon photodiode
Tray	For 4 cuvettes de 10 mm
Output	USB and parallel port (printer)
Light source	Tungsten
Power	110V 60Hz/220V 50Hz (manual changer)





▶ HJB - Visible

▶ Series 4211/20



- 1 | Memory for storing up to 200 absorbance and transmittance data. It also allows to save and retrieve up to 200 standard curves.
- 2 | MWave basic software included. Compatible with MWave professional software that increases the functions of the equipment through the computer.
- 3 | Photometric analysis (absorbance and transmittance) and quantitative mode (method of coefficient and standard curve).

Code	HJB004
Wavelength range	325-1000nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4nm
Wavelength accuracy	± 1nm
Wavelength resolution	± 1nm
Photometric range	-0,097 - 2,5 A 0 - 125% T
Lamps	Tungsten
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 HZ (manual changer)

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▶ Portátil



- 1 | Windows CE based operating system with TFT touch screen interface
- 2 | The data can be stored on the PC via USB connection and Data Viewer software
- 3 | Model 4431 works on the basis of pre-programmed analysis methods for the Spectroquant® reagent kit series from Merk Chemicals.
- 4 | They allow photometric, quantitative, kinetic and spectral sweep measurements to be made.
- 5 | Supplied in a sturdy case

Code	HJB005*	HJB006*
Model	4430	Pre-programmed 4431
Wavelength range	380 – 800nm	
Optic system	Polychromatic with concave holographic grid	
Bandwidth	4 ± 0,8nm	
Wavelength accuracy	± 1nm	
Wavelength resolution	0,4nm	
Wavelength repeatability	≤ 0,1nm	
Diffuse light	≤ 0.5%	

* these codes are supplied under request

▶ Microtiter Strip Reader "Reader M-2000"



- 1 | Clinical diagnostics, E.I.A., Veterinary, quality control.
- 2 | Supplied complete with a filter of 450 nm

Code	HJB501
Spectral range	400 to 700 nm I
Interference filter	10 nm band pass
Measuring range	-0.2 to 3.5 O.D.
Photometric accuracy	> 1%
Photometric precision	± 1%
Light source	0,4nm
Detector	Solid state
Software	ABS



▶ HJB - Visible

▶ “Photometer S-2000”



- 1| Clinical laboratories, Clinical Biochemistry, Haematology, E.I.A. Electrolytes and Iones.
- 2| Bichromatic optical system with 7 filters, 340, 405, 500, 546, 578, 620 and 670 nm.

Code	HJB502
Band pass	10 nm
Flow cell	30 ul
Measuring range	0.000 to 2.500 ABS.
Resolution	Display 0.001 ABS, calculations to 0.0001ABS
Thermostatted Peltier	25, 30 and 37 °C
Accuracy	±0.1 °C
Tungsten halogen lamp	6V 10 W
Dimensions	14x45x33 cm
Power rating	110-220V/50-60Hz
Power	150 W



▶ Digital colorimeter “Clormic”



- 1| Chemistry Laboratory, quality control, environmental control.
- 2| Standard filters: 420, 440, 490, 520, 550, 580, 620 and 680 nm.

Code	HJB503
Wavelength range	400 to 800 nm*
Absorption range	-0.3 to 3.5 O.D.
Transmission	0 to 100 T %
Photometric accuracy	>1 %
Photometric precision	±1 %
Photometric stability	0.004 A/hr
Light source	Long life tungsten lamp
Dimensions	11x18x28 cm
Power	10 W
Weight	4,5 Kg

* by using special filters with a 30 nm band pass.



▶ Visible range spectrophotometers “V-1100” and “VR-2000”



- 1| High quality silicon photometric diode detector and 1200 lines/mm diffraction grating ensure the high quality accuracy and precision.
- 2| Digital display for an easy readout.

Code	HJB504	HJB505
Model	VR-2000	VR-1100
Wavelength range	325-1000 nm	
Spectral bandwidth	4 nm	5 nm
Optical system	Single beam, diffraction grating 1200 lines/mm	
Wavelength adjustment	Manual	Automatic
Wavelength accuracy	±2 nm	±1 nm
Wavelength repeatability	1 nm	0,5 nm
Photometric accuracy	±0,3% T	±0,5% T
Dimensions	160 x 480 x 360 mm	180 x 470 x 370 mm
Weight	8 Kg	12 Kg





▶ HJD - UV - Visible

▶ Model 4201/50



- 1 | White and auto zero easy to perform.
- 2 | Absorbance, transmittance and concentration readings (factor method)
- 3 | You can display and store 50 groups of data, 3 per display.
- 4 | Includes MWave Basic Software for working via PC.

Code	HJD001
Wavelength adjustment	Digital
Wavelength range	200-1000nm
Bandwidth	4nm
Optic system	Single beam, 1200 line/mm grid
Wavelength accuracy	±2nm
Wavelength resolution	±1nm
Photometric range	-0,097 - 1,999A, 0 - 125%T
Detector	Silicon photodiode
Tray	For 4 cuvettes of 10 mm
Output	USB and parallel port (printer)
Power	110 V 60 Hz / 220 V 50 HZ (manual switch)
Light source	Tungsten and deuterium

▶ Model 4211/50



- 1 | Memory for storing up to 200 absorbance and transmittance data It also allows to save and retrieve up to 200 standard curves.
- 2 | Photometric (absorbance and transmittance) and quantitative analysis (coefficient and standard curve method)
- 3 | MWave basic software included. Compatible with MWave professional software that supports the functions of the device through the computer. Compatible with Professional Software.

Code	HJD002
Wavelength range	200-1000nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	4nm
Wavelength accuracy	±1nm
Wavelength resolution	±1nm
Wavelength reproducibility	0,5nm
Photometric range	-0,097 - 2,5 A, 0 - 125% T
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)

▶ Model 4251/50



- 1 | Memory for storing up to 200 absorbance and transmittance data It also allows to save and retrieve up to 200 standard curves.
- 2 | Photometric (absorbance and transmittance) and quantitative (coefficient and standard curve method) and kinetic analysis
- 3 | MWave basic software included. Compatible with MWave professional software that increases the functions of the device through the computer.

Code	HJD003
Model	4251/50
Wavelength range	190-1100nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	2nm
Wavelength accuracy	±0,5nm
Wavelength resolution	±0,1nm
Wavelength reproducibility	0,3nm
Photometric range	-0,3 - 3 A, 0 - 200% T
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)



HJD - UV - Visible

Model 4255/50

- 1 | Memory for data and curve storage in the equipment.
- 2 | Advanced and complete functions to cover the whole range of applications: photo-metric analysis (absorbance and transmittance), quantitative, kinetic, scanning, DNA/protein and multiple wavelength analysis.
- 3 | Compatible with UV/Vis Analyst software (not included)

Code	HJD004
Wavelength range	190-1100nm
Optic system	Single beam, 1200 line/mm grid
Bandwidth	2nm
Wavelength accuracy	±0,5nm
Wavelength resolution	±0,1nm
Wavelength reproducibility	0,3nm
Sweep speed	High, medium and low (max 3000nm/min)
Photometric range	-0,3 - 3 A, 0 - 200% T, 0 - 9999 C
Lamps	Tungsten and deuterium
Detector	Silicon photodiode
Sample compartment	4 standard cuvettes with 10 mm light path
Output	USB and parallel port
Power	110 V 60 Hz / 220 V 50 Hz (manual switch)



Model 4481/1

- 1 | 7" color LCD touch-screen, with easy and intuitive interface.
- 2 | Large memory capacity; up to 10 concentration curves, 10 base spectra or 10 kinetic curves Motorized path for 8 cells of 10 nm.
- 3 | Photometric, qualitative, kinetic, multiple wavelength analysis, sweeps, zoom in/out of the spectral graph and calibration, search and peak printing.
- 4 | UVWin 8 software support (not included).

Code	HJD006
Beam of light	Simple
Wavelength lenght	190 – 1000nm
Bandwidth	2nm
Wavelength accuracy	±0,5nm
Wavelength reproducibility	0,2nm
Photometric range	-0,3 – 4Abs
Sweep speed	High, medium and low
Detector	Silicon photodiode
Power	220V 50 Hz



UV-VIS 4419

- 1 | Czerny-Turner frame technology with holographic grating that reduces diffused light by minimal, offering excellent optical resolution.
- 2 | Dual-beam optic system combined with high specification holographic grating; allows measurement of adjacent wavelengths with excellent sensitivity.
- 3 | Continuous selection of the spectral bandwidth
- 4 | Photometric, quantitative, kinetic, multiple wavelength analysis, sweeps, DNA proteins.
- 5 | Includes UVWin software for PC control (continuous operation not available).

Code	HJD005*
Optic system	Double beam
Wavelength lenght	190 – 900nm
Bandwidth	0.1 a 5 nm (0.1 nm intervals)
Wavelength accuracy	±0,3nm
Wavelength reproducibility	0,1nm
Photometric range	-0,4 – 4Abs
Detector	Photomultipliers
Power	120-230 V CA, 50-60 Hz

* these codes are supplied under request





▶ HJD - UV - Visible

▶ Double beam model 4260/50



- 1 | Double-beam optic system .
- 2 | Quantitative analysis, kinetics, scanning, multi-component analysis and DNA/protein analysis .
- 3 | Excellent measurement performance in the range of 190 to 1100 nm
- 4 | Variable bandwidth (0.5/1/2/4/5nm) to maximize the balance between resolution, accuracy and precision in each application
- 5 | Supplied with Windows-based UV/Vis Analyst application software

Code	HJD007
Wavelength range	190-1100 nm
Wavelength reproducibility	± 0.3 nm
Wavelength reproducibility	0.2 nm
Spectral bandwidth	Variable: 0.5/1/2/4/5 nm
Photometric range	0-200% T, -0.3 – 3 A
Photometric accuracy	± 0.3% T o ± 0.003 A @ 1 A
Optic system	Double beam, rack 1200 lines/mm
Sweep speed	High, medium, low (max. 3000 nm/min)
Stray light	0.04% T @ 220 nm, 360 nm
Stability	0.0003 A/h @ 500 nm
Baseline flatness	± 0.0005 A
Screen	LCD 5 inch (320x240 points)
Standard cell holder	10 mm single cell holder (sample and reference)
Cells	Includes 4 glass cuvettes and 2 quartz cuvettes
Light source	Tungsten and Deuterium Lamps (pre-aligned)
Outputs	USB type A port for USB memory stick (right side) USB type B port for PC connection (rear side) Parallel printer port
Power	AC 110/220 V, 50/60 Hz
Dimensions (LxWxA)	589x428x200 mm
Weight	22 Kg

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[342]▶ Visible range spectrophotometers
“V-1100” and “VR-2000”

- 1 | Spectrophotometers UV-2005 and UV-3100 have been developed for accurate tests; Its stray light is only of 0.05% T.
- 2 | They are flexible, easy-to-use and maximize value.
- 3 | Value is provided from every day performance.

Code	HJD501	HJD503
Model	UV-2005	UV-3100
Wavelength range	190-1100 nm	
Spectral bandwidth	2 nm	
Optical system	Single beam, diffraction grating 1200 lines/nm	
Wavelength accuracy	±0,5 nm	
Wavelength repeatability	0,3 nm	
Photometric accuracy	±0,3% T	
Photometric range	-0,3-3 A, 0-200% T. 0-9999 Concentration	
Dimensions	160 x 480 x 360 mm	180 x 470 x 370 mm
Weight	8 Kg	12 Kg



HJD - UV - Visible

Double Beam Spectrophotometer "UV-2300 II"



- 1| Monochromator high resolution optics that eliminate any optical aberrations, monochromator "Seya-Namioka"
- 2| Bandwidth 1.5 nm in accordance with European pharmacopoeia recommendations. (the relation between the maximum and minimum absorbance in Toluene and Hexane at 0.02% (V/V) should be more than 1.5T).
- 3| Several modes of operation including spectral scanning, time base scanning, multi wavelength determinations, peak and trough detection, etc.
- 4| Fast spectra scan displayed on a screen covering the whole spectral range: quick scan 3600 nm/minute, range 190 to 1100 nm



Code	HJD502
Optical system	Double beam optics.
Wavelength range	190 nm to 1100 nm.
Band pass	1.5 nm
ABS range	-3.000 to 3.000 A or 0 to 300% T
Stray light	less than 0.05% (220 nm NaI, 340 nm NaNO ₂)
Scan speed	10, 100, 200, 400, 800, 1200, 2400 and 3600 nm/m
Wavelength accuracy	±0.3 nm.
Photometric accuracy	± 0.002 A from 0 to 0.5 A. ± 0.004 A from 0.5 to 1.0 A.
Baseline stability	0.0003A/hr (500 nm after 2 hours of use.).
Noise level	0.0003 A (at 500 nm)
Dimensions	26x50x59 mm
Weight	29Kg

HJG - Checking standards

Didimium glass filter



- 1| Solid filter for verification of wavelength accuracy in the range visible and UV (from 329 nm to 875 nm) and for verification of photometric accuracy.

Code	HJG001
Description	Didimium (F5)
Peak position (nm)	327, 473, 513, 684, 875
Nominal absorbance	5.0 (280 nm) 3.0 (300 nm) 0.5 (320 nm) 0.2 (340 nm)



Neutral density glass filter



- 1| Grey glass filters for verification of photometric accuracy (absorbance) in the visible range (440 nm to 635 nm).
- 2| They show a relatively constant transmission along the visible spectrum being calibrated at certain wavelengths.
- 3| The glass filter thickness has been adjusted to give nominal absorbance values of 0.25 A, 0.5 A and 1 A.

Code	Des.	Nominal absorbance	Medium absorbance (nm)
HJG003	F2	0.25 A	440, 465, 546, 590, 635
HJG004	F3	0.5 A	440, 465, 546, 590, 635
HJG005	F4	1.0 A	440, 465, 546, 590, 635





▶ HJG - Checking standards

▶ Set of calibration standard



- 1| It includes a Holmium oxide (Ho₂O₃) glass filter for wavelength accuracy verification and 3 neutral density glass filters for photometric accuracy verification.
- 2| All this, together with an empty frame, is supplied in a wooden case.
- 3| The absorbance and wavelength values for the peaks are recorded on the calibration certificate that accompanies each filter set. A copy of the values, for routine use, is located on the inside of the case lid.

Code		HJG007
Composed of		
Filter	Descripcion	Absorbance measured at (nm)
F1	Holmium Oxide	279, 364, 454, 536, 638
F2	Neutral optical density	440, 465, 546, 590, 635
F3	Optical Density	440, 465, 546, 590, 635
F4	Neutral optical density	440, 465, 546, 590, 635

▶ HJH - Accessories



Referencia	Description
HJH002	Dust cover spectrophotomete, for series 4100
HJH003	Halogen lamp 6 V 10 W, for model 4201/20
HJH004	Blanck cell, 10 mm
HJH005	Dust cover spectrophotometer, for series 4200
HJH006	Halogen lamp 12 V 20 W, for series 4201/4211/4251/4255
HJH007	Deuterium lamp, for series 4200
HJH001	Tray, for series 4100
HJH010	Lamp deuterio Hamamatsu L6302-40, for model 4419
HJH017**	Sipper pump system, for model 4419
HJH018**	Thermostatizable cell holder, for model 4419
HJH019**	Cell holder for cells, for model 4419
HJH021	Deuterium lamp
HJH022	Adapter for cells 1 to 5 mm
HJH024	Tungstene lamp for spectrophotometer model 4481
HJH023*	Halogen lamp 12V 35W, models 4481 and 4488
HJH025*	Peltier module, models 4488 and 4419
HJH026*	Cell holder for cells 5 -50 mm, for models 4201/50, 4201/20, 4211/50, 4211/20, 4251/50, 4255/50
HJH027*	Cell holder for 4 cells 50 mm path length 4201/ 4211/ 4251/ 4255
HJH028*	Sipper pump system, models 4481 y 4488
HJH029*	Thermostatizable cell holder 2 cells 10 mm, 4488
HJH030*	Cell holder 5 cells 50 mm, model 4488
HJH008	Software MWave Professional, for models 4201/50, 4211/20, 4211/50, 4251/50
HJH009	Software UV/Vis Analyst, for model 4255/50
HJH020	Spectrophotometer software for model 4481/1

* these references are available until end of stock

** these codes are supplied on request



HJK - Cells, glass

- 1 | They are supplied in paired unit boxes and all have the following characteristics:
- 2 | Material specifications: two types of material, optical glass (340-2500 nm) for the visible spectrum (vis) and synthetic quartz (190- 2500 nm) for the ultraviolet (UV)
- 3 | Construction of the cells: they are made by tuning their walls, that is, following a process of heating, without reaching the temperature of fusion, of powder conglomerates to which it is modelled by pressure.
- 4 | General characteristics:
 - Resistance to alkali of 6mol/L of sodium hydroxide (NaOH), kept in the tank for 24 hours, without breakage or dripping.
 - Resistance to acids of 6mol/L of hydrochloric acid (HCl), kept in the cuvette for 24 hours, without breakage or dripping.
 - Resistance to organic solvents such as ethanol (C₂H₅OH), carbon tetrachloride (CCl₄) or benzene (C₆H₆), kept separately in the cuvette for 24 hours, without breaking or dripping.

▶ Semi-micro glass cell (10 mm)



- 1 | They are the most common in analytical chemistry.
- 2 | They have two polished walls and have a cap (not airtight).
- 3 | Outside dimensions 12.5 x B x 45mm / Inlet beam width: 10 mm



Code	Light path	Volume
HJK001	1 mm	0.35 mL
HJK002	2 mm	0.70 mL
HJK003	5 mm	1.70 mL
HJK004	10 mm	3.50 mL
HJK005	20 mm	7.00 mL
HJK006	40 mm	14.00 mL
HJK007	50 mm	17.50 mL

▶ Standard glass cell with stopper (10 mm)



- 1 | They incorporate an airtight PTFE cap, recommended for volatile liquids.
- 2 | External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 10 mm



Code	Light path	Volume	Lot
HJK008	10 mm	3.50 mL	2

▶ Semi-micro glass cell, black walls (4 mm)



- 1 | To reduce the volume of the sample needed to make a measurement.
- 2 | Its black faces improve sensitivity by eliminating stray light from the measurement.
- 3 | Outside dimensions 12.5 x B x 45mm / Input beam width: 4 mm
- 4 | They have a cap (not watertight).



Code	Light path	Volume	Lot
HJK009	5 mm	0.50 mL	2
HJK010	10 mm	1.00 mL	2
HJK011	20 mm	2.00 mL	2

▶ Semi-micro glass cell with stopper, black walls (4 mm)



- 1 | They incorporate an airtight PTFE cap, recommended for volatile liquids.
- 2 | External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 4 mm.



Code	Light path	Volume	Lot
HJK012	10 mm	1.00 mL	2



HJK - Cells, glass

Micro glass cell, black walls (2 mm)



- 1| For small sample volumes.
- 2| Outside dimensions 12.5 x 12.5 x 48mm / Input beam width: 2 mm
- 3| Have a cap (not watertight)

Code	Light path	Volume	Lot
HJK013	10 mm	0.50 mL	2

Micro glass cell with stopper, black walls (2 mm)



- 1| The same as the micro cuvettes except that they include a PTFE stopper that seals them hermetically, making them better for preventing the evaporation of volatile liquids.
- 2| Outside dimensions 12.5 x B x 48mm / Inlet beam width: 2 mm

Code	Light path	Volume	Lot
HJK014	5 mm	0.25 mL	2
HJK015	10 mm	0.50 mL	2

Flow through cell



DIMENSIONS - flow through cell



- 1| Made of optical glass (G).
- 2| Used in applications requiring a measuring range of 340 nm to 2.5 μm.
- 3| Cuvettes have sample inlet and outlet tubes and two polished circular opening windows for the passage of the light beam.
- 4| Each model is supplied in a case with two units. Outside dimensions 12.5 x 12.5 x 45mm / Ø inlet beam: 3 mm

Code	Altura Z	Light path	Volume	Lot
HJK016	8.5 mm	10 mm	0.07 mL	2
HJK017	15 mm	10 mm	0.07 mL	2

Cuvettes for spectroscopy



Code	Material	Optical p.length	Description
Special cuvettes			
HJK501	Glass	10 mm	Flow through cell. Window 5 x 10 mm
HJK503	Glass	5 mm	Square Semi-Micro
HJK505	Glass	10 mm	Semi-micro
HJK506	Glass	10 mm	Standard square, "micro"
HJK507	Glass	40 mm	Rectangular
HJK508	Glass	10 mm	Standard square, "macro" with round lid
Standard cuvettes			
HJK502	Glass	10 mm	Flow through cell, square "micro"
HJK504	Glass	10 mm	Standard square, "macro"



HJL - Cells, quartz

- 1 | They are supplied in paired unit boxes and all have the following characteristics:
- 2 | Material specifications: two types of material, optical glass (340-2500 nm) for the visible spectrum (vis) and synthetic quartz (190-2500 nm) for the ultraviolet (UV)
- 3 | Construction of the cells: they are made by fusing their walls, that is, following a heating process, without reaching the melting temperature, of powder conglomerates to which it is modelled by pressure.
- 4 | General characteristics:
 - Resistance to alkali of 6mol/L of sodium hydroxide (NaOH), kept in the tank for 24 hours, without breakage or dripping.
 - Resistance to acids of 6mol/L of hydrochloric acid (HCl), kept in the cuvette for 24 hours, without breakage or dripping
 - Resistance to organic solvents such as ethanol (C₂H₅OH), carbon tetrachloride (CCl₄) or benzene (C₆H₆), kept separately in the cuvette for 24 hours, without breaking or dripping.

▶ Standard quartz cell (10 mm)



- 1 | They are the most common in analytical chemistry.
- 2 | They have two polished walls and have a cap (not airtight).
- 3 | Outside dimensions 12.5 x B x 45mm / Inlet beam width: 10 mm

Code	Light path	Volume	Lot
HJL001	1 mm	0.35 mL	2
HJL002	2 mm	0.70 mL	2
HJL003	5 mm	1.70 mL	2
HJL004	10 mm	3.50 mL	2
HJL005	20 mm	7.00 mL	2
HJL006	40 mm	14.00 mL	2
HJL007	50 mm	17.50 mL	2



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▶ Standard quartz cell with stopper (10 mm)



- 1 | They incorporate an airtight PTFE cap, recommended for volatile liquids.
- 2 | External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 10 mm

Code	Light path	Volume	Lot
HJL008	10 mm	3.50 mL	2



▶ Semi-micro quartz cell, black wall (4 mm)



- 1 | To reduce the volume of the sample needed to make a measurement.
- 2 | Its black faces improve sensitivity by eliminating stray light from the measurement.
- 3 | Outside dimensions 12.5 x B x 45mm / Input beam width: 4 mm
- 4 | They have a cap (not watertight).

Code	Light path	Volume	Lot
HJL009	5 mm	0.50 mL	2
HJL010	10 mm	1.00 mL	2
HJL011	20 mm	2.00 mL	2





HJL - Cells, quartz

Semi-micro quartz cell with stopper, black walls (4 mm)



- 1 | They incorporate an airtight PTFE cap, recommended for volatile liquids.
- 2 | External dimensions 12.5 x 12.5 x 48mm / Inlet beam width: 4 mm.

Code	Light path	Volume	Lot
HJL012	10 mm	1.00 mL	2

Micro quartz cell, black walls (2 mm)



- 1 | For small sample volumes.
- 2 | Outside dimensions 12.5 x 12.5 x 48mm / Input beam width: 2 mm
- 3 | They have a cap (not watertight).

Code	Light path	Volume	Lot
HJL013	10 mm	0.50 mL	2

Micro quartz cell with stopper, black walls (2 mm)



- 1 | The same as the micro cuvettes except that they include a PTFE stopper that seals them hermetically, making them better for preventing the evaporation of volatile liquids.
- 2 | Outside dimensions 12.5 x B x 48mm / Inlet beam width: 2 mm

Code	Light path	Volume	Lot
HJL014	5 mm	0.25 mL	2
HJL015	10 mm	0.50 mL	2

Cuvettes for Spectroscopy



Code	Material	Optical p.length	Description
Special cuvettes			
HJL501	Quartz	10 mm	Standard square, "macro"
Standard cuvettes			
HJL502	Quartz	10 mm	Semi-micro

HJM - Cells, others

Cuvette macro PS



- 1 | External dimensions 12x12x45 mm

Code	Description	Cap.	Pack
HJM004	Macro	4.5 ml	100 pcs
HJM005	Semi-micro	1.5 ml	100 pcs
HJM007	Semi-micro	2.5 ml	100 pcs
HJM010	4 clear faces	4.5 ml	100 pcs



HJM - Cells, others

Spectr. UV cuvette PMMA

Kartell

- 1 | External dimensions (mm): 12x12x45
- 2 | Light path: 10

Code	Description	Cap.	Pack
HJM006	Macro	4.5 ml	100 pcs
HJM008	Semi-micro	2.5 ml	100 pcs
HJM009	Semi-micro	1.5 ml	100 pcs
HJM011	4 clear faces	4.5 ml	100 pcs

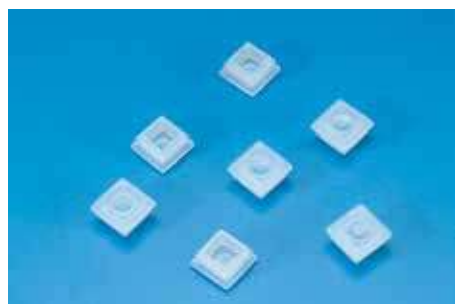


Caps for cuvettes

Kartell

- 1 | Polyethylene pressure cap to close the cells with square section mouth (10x10 mm).
- 2 | Ideal for shaking the sample eventually or as safety in case of accidental spillage.

Code	Dimensions	Pack
HJM012	10x10 mm	1.000


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Tray

Kartell

- 1 | It can hold 12 x 10 mm cells in an upright position for preparation and in a horizontal position for conservation and protection.

Code	Positions	Cuvette type	Dimensions
HJM002	12	2x12	170x50x15



Cuvettes for spectroscopy



Code	Material	Optical p.length	Description
Special cuvettes			
HJM501	Polystyrene	10 mm	Square Semi-Micro, disposable
Standard cuvettes			
HJM502	Polystyrene	10 mm	Standard square, "macro", disposable





▶ HMB - Polarimeters

▶ 404 and 404-LED models



CODE - HMB001



- 1 | Inclined sample compartment that can accommodate tubes up to 220mm
- 2 | Double reading scale by means of Vernier to avoid differences due to eccentricity.
- 3 | Eyepiece with diopter adjustment.
- 4 | Two lateral magnifying glasses of 4 magnifications to facilitate the reading of the scale.
- 5 | Supplied with two tubes for samples of 100 and 200 mm respectively.

Code	HMB001	HMB002
Model	404	404-LED
Illumination	Lamp de vapor de sodio	LED + filtro
Wavelength length	589,4 nm	589,4 nm
Number of scales	2	
Measurement range	Dos cuadrantes (0-180°)	
Scale division	1°	
Legibility (mediante Vernier)	0,05°	

CODE - HMB002



▶ Model 412



- 1 | Photoelectric detection, RS 232 output.
- 2 | Repeat the measurement 3 times and calculate the average value.
- 3 | High sensitivity, used with samples of low optical rotation that are difficult to analyze in the optical polarimeter.
- 4 | Supplied with two tubes for 100 and 200 mm samples.
- 5 | Measurement of optical rotation.

Code	HMB003
Model	412
Range	De +45° a -45°
Accuracy	±(0,001+ measured value ×0,05%)
Minimum transmittance of the sample	10%
Illumination	LED + filter (589,4nm)
Speed	1,3°/s

▶ Model 418



- 1 | Advanced digital circuit and microprocessor control, RS 232 output
- 2 | Repeat the measurement 3 times and calculate the average value.
- 3 | Performs readings on dark samples with a transmittance close to 1%
- 4 | Supplied together with two sample tubes of 100 and 200mm
- 5 | Optical rotation and sugar degree measurement

Code	HMB004
Model	418
Range	De +45° a -45°/ De +130°Z a -130°Z
Accuracy	±0,001°
Minimum transmittance of the sample	1%
Illumination	LED + filtro (589,4nm)
Speed	1°/s



HMB - Polarimeters

Model 430



- 1| Photoelectric detection and microprocessor control. RS232 output.
- 2| Measurement of specific rotation, optical rotation, sugar level and concentration
- 3| Repeat the measurement 6 times and calculate the mean value and RMS value.
- 4| Supplied with two sample tubes of 100 and 200mm.

Code	HMB005
Model	430
Range	From +45° to -45° / From +130°Z to -130°Z
Accuracy	$\pm 0,01^\circ + (\text{measured value} \times 0,05\%) / n10000$ $\pm 0,03^\circ Z + (\text{measured value} \times 0,05\%) / n10000$
Min transmittance of the sample	10%
Illumination	Sodium lamp + filter (589,4nm)
Speed	1°/s



HMF - Calibration pieces



- 1| To check the accuracy of the polarimeter measurements.
- 2| Quartz piece with metal mount. Supplied in a case.

Code	Description
HMF001	Quartz piece for calibration of polarimeter +5°
HMF002	Quartz piece for calibration of polarimeter -5°
HMF003	Quartz piece for calibration of polarimeter +17°
HMF004	Quartz piece for calibration of polarimeter -17°
HMF005	Quartz piece for calibration of polarimeter +35°
HMF006	Quartz piece for calibration of polarimeter -35°



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HMG - Accessories



Code	Description
HMG001	Sodium vapor lamp 589,3 nm
HMG002	Rubber joint for polarimeter
HMG003	Test tube with stopper for polarimeter
HMG004	Test tube circular glass disk 15 mm
HMG005	Test tube for polarimeter 100 mm
HMG006	Test tube for polarimeter 200 mm



CODE - HMG005



CODE - HMG006

HPB - Abbe

Model Abbe 315RS, digital



- 1| Application in the chemical, oil, food, pharmaceutical and scientific industries universities, etc.
- 2| Measurement of the refractive index (nD) of transparent and translucent solids and liquids, as well as the sugar (or Brix) concentration in solutions
- 3| Automatic temperature compensation for the Brix scale

Code	HPB001
Range	
Refractive index	1,3000-1,7000 nD
nD Brix	0-95%
Accuracy	
Refractive index	$\pm 0,0002$ nD
Brix	$\pm 0,1$
Dimensions	330 x180x380 mm
Temperature correction	15/45 °C
Weight	10 kg
Power	CA 220 V, 50-60 Hz





▶ HPB - Abbe

▶ Model Abbe 325



- 1| To measure refractive indices and sugar concentration (Brix).
- 2| Metal construction equipment ready to be coupled to a circulation thermostat, with digital thermometer
- 3| The scale is illuminated by natural light and the lighting can be incident or transmitted
- 4| Optical system magnification: 2x. Magnification of the reading system: 30x

Code	HPB002
Range	
Refractive index	1,3000 - 1,7000 nD
nD Brix	0-95%
Accuracy	
Refractive index	±0,0005 nD
Brix	± 0,25%
Dimensions	100x200x240 mm
Weight	2,6 kg

▶ Model Abbe 325



- 1| Ideal for measuring the refractive index hD of liquids, solids and sugar concentrations (0 - 95% = hD 1.333- 1.531).
- 2| Indispensable instrument for industrial chemistry, petroleum, pharmaceutical, food oils and fats, sugars, universities etc.

Code	HPB501
Telescopic system	x2 magnification
Eyepiece	Dioptic correction
Thermometer	0-70 °C
Measuring range	
Refractive index hD	1300 - 1700.
Brix	0 - 95%.
Measuring definition	
Refractive index hD	0.0005
Accuracy hD	±0.0002.
Brix	0.25%.
Accuracy	±0.1%.

▶ Digital ABBE refractometer "WYA-2S"



- 1| Apparatus equipped with an optical system made of a telescope with dispersion correction, used to define the division line between dark and bright areas.
- 2| Precise optics with automatic temperature compensation displayed as °Brix and sample temperature.

Code	HPB502
Dimensions	38x18x33 cm
Weight	10 Kg
Power supply	220V ±20V 50/60Hz
Measuring range	
Refractive index hD	1.3000 - 1.7000
Brix Bx - TC	0 - 95%.
Brix Bx:	0 - 95%
Measuring definition	
Refractive index hD	± 0.0002
Brix Bx - TC	± 0.1%
Brix Bx	± 0.1%
Temperature	
Working range	0 - 50 °C.
Bx range, respect temp	15 - 45 °C.



▶ HPD - Hand, Brix scale



Metal-bodied refractometers



Plastic body refractometers

Features refractometers metal body and plastic body

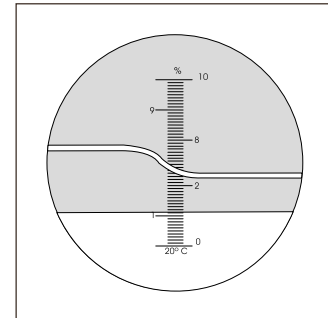
- 1| Supplied in plastic case with pipettes for sampling, cover, screwdriver, rubber blinkers and rubber handle.
- 2| Manufactured in metal body except ECO models (plastic body)

▶ 0-10% Brix



- 1| Weak concentrations (tomatoes, diluted juices, industrial cutting oils, etc.)
- 2| Calibration with distilled water by adjusting to zero.

Code	Range	Accuracy	CAT (10-30°C)
HPD001	0-10% Bx	0.1%	No
HPD012	0-10% Bx	0.1%	Yes

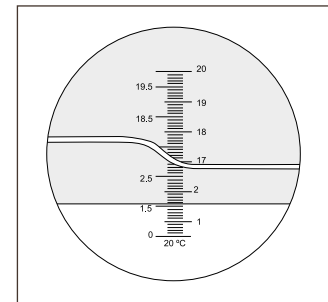


▶ 0-20% Brix



- 1| Low concentrations (fruit juices, soft drinks, etc.) except grape must.
- 2| Calibration with distilled water by adjusting to zero.

Code	Range	Accuracy	CAT (10-30°C)
HPD002	0-20% Bx	0.1%	No
HPD013	0-20% Bx	0.1%	Yes

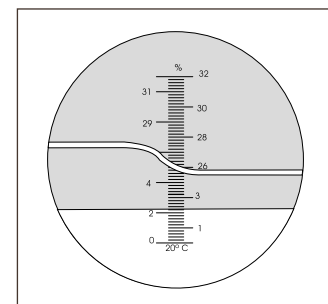


▶ 0-32% Brix



- 1| Refractometer commonly used for low concentrations in fruits, fruit juices, beverages, dairy products, industrial cutting oils, etc.
- 2| Calibration is performed by zeroing with distilled water.

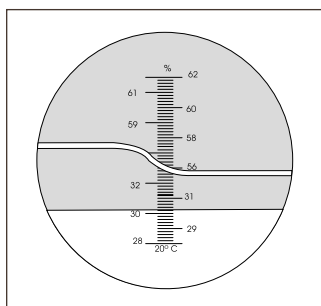
Code	Range	Accuracy	CAT (10-30°C)
HPD003	0-32% Bx	0.2%	No
HPD014	0-32% Bx	0.2%	Yes





▶ HPD - Hand, Brix scale

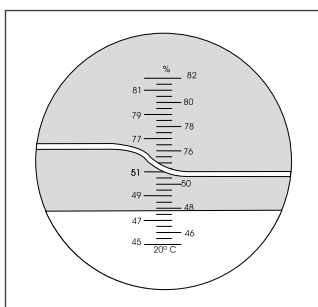
▶ 28-62% Brix



- 1 | Refractometer used for intermediate concentrations such as concentrated fruit juices, jams, canned foods with sweetened infusions, etc.
- 2 | Calibration with test piece included.

Code	Range	Accuracy	CAT (10-30°C)
HPD004	28-62% Bx	0.2%	No
HPD015	28-62% Bx	0.2%	Yes

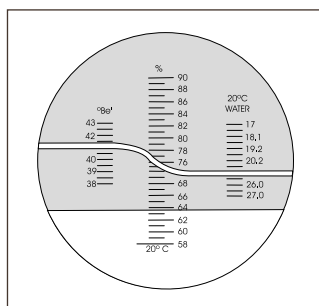
▶ 40-82% Brix



- 1 | Model for high concentrations such as condensed milk, liquid caramel, concentrated juice five times or more, jams, etc.
- 2 | Calibration with test piece included.

Code	Range	Accuracy	CAT (10-30°C)
HPD005	40-82% Bx	0.5%	No
HPD016	40-82% Bx	0.5%	Yes

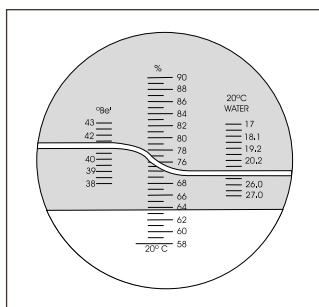
▶ 58-92% Brix



- 1 | Model for high concentrations of sugar in honey.
- 2 | Calibration with test piece included.

Code	Range	Accuracy	CAT (10-30°C)
HPD006	58-92% Bx	0.5%	No
HPD017	58-92% Bx	0.5%	Yes

▶ 58-92% Brix | 38-43 ° Baume | 12-27% Water



- 1 | Refractometer specially manufactured to read the three main values of honey: sugar content, Baumé degree and water percentage.
- 2 | Calibration is done with Monobromo Naphthalene and test piece included.

Code	HPD007	HPD018
Range	58-92% Bx; 38-43 °Bé; 12-27% Water	
Accuracy	0.5% ; 0.5°; 0.5%	
CAT (10-30°C)	No	Yes



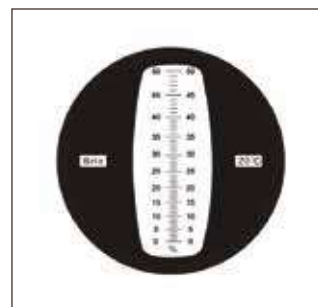
▶ HPD - Hand, Brix scale

▶ 0-50% Brix



- 1 | Refractometer commonly used to measure concentrated sugar solutions in must.
- 2 | Calibration is performed by zeroing with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPD008	0-50% Bx	0.5%	No
HPD019	0-50% Bx	0.5%	Yes

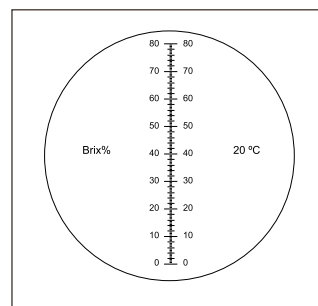


▶ 0-80% Brix | 0-80% Brix (2 scales)



- 1 | Refractometer consisting of a scale of 0-80% Brix, its wide scale allows it to be used for a large number of determinations.
- 2 | The separation line in this model is white/blue.
- 3 | It is used for the determination of all kinds of substances such as; fruits, juices, soft drinks and even for the determination of industrial oils.
- 4 | The calibration of the models HPD009 and HPD020 is done with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPD009	0-80% Bx	0.5%	No
HPD020	0-80% Bx	0.5%	Yes
HPD021	0-80% Bx (0-50%; 50-80%)	1%	No



▶ 0-90% Brix | 0-90% Brix (3 scales)



- 1 | Refractometer consisting of a scale of 0-90% Brix, its wide scale allows it to be used for a large number of determinations.
- 2 | The calibration of the model HPD011 is made with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPD011	0-80% Bx	0.5%	No
HPD010	0-80% Bx (0-42% ; 42-71%; 71-90%)	0.2%	No



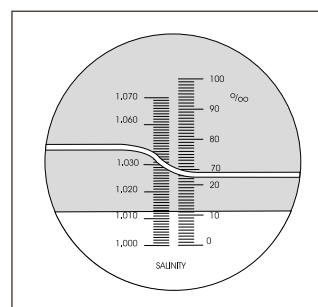
▶ HPF - Hand, salinity

▶ 0-100‰ Salinity



- 1 | Precision refractometer for average salt concentrations in either natural or artificial seawater, food preparations, etc. It has a specific weight scale.
- 2 | Calibration is done with distilled water.

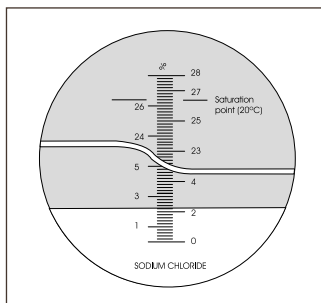
Code	Range	Accuracy	CAT (10-30°C)
HPF001	0-10‰ Salinity 1000-1070 g/	1‰; 0.001	No
HPF004	0-100‰ Salinity 1000-1070 g/L	1‰; 0.001	Yes
HPF007	0-100‰ Salinity 0-10% Bx; 1000-1070 g/L	1‰; 0.1%; 0.001	Yes





▶ HPF - Hand, salinity

▶ 0-28% Salinity

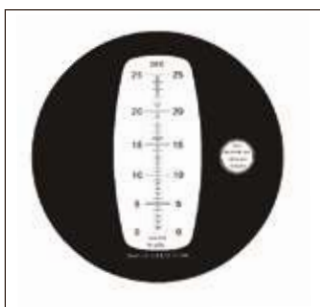


- 1 | Apparatus used to measure salt concentration in water, oceanography, fish farms, aquariums, brines, etc.
- 2 | Calibration is done with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPF002	0-28% Salinity	0.2%	No
HPF005	0-28% Salinity	0.2%	Yes

▶ HPH - Hand, oenology

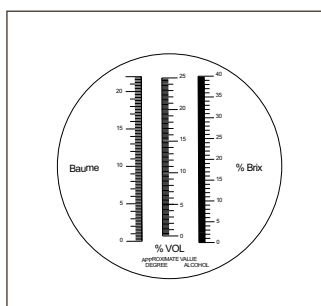
▶ 0-25% Probable alcohol



- 1 | Refractometer specially designed to measure the probable alcohol in grapes.
- 2 | It has Automatic Temperature Compensation (Range 10-30°C).
- 3 | Calibration is done with distilled water.

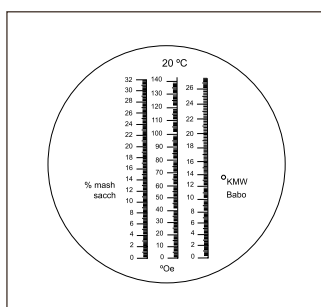
Code	Range	Accuracy	CAT (10-30°C)
HPH002	0-25% Probable alcohol	0.2%	Yes

▶ 3 scales



- 1 | Apparatus that measures the probable alcohol in grape must, as well as the Baumé and Brix degrees, allowing to estimate the degree of ripeness of the grapes before and during the harvest
- 2 | Calibration is done with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPH003	0-25° Probable alcohol 0-22° Bé; 0-40% Bx	0.2% 0.2° 1%	Yes



- 1 | Refractometer designed to measure the concentration of fruit juice, in three different scales, common in different parts of the world.
- 2 | Calibration is done with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPH005	0-140° Oe 0-25° KMW Babo 0-32% mash sacch	1°; 0.2°; 0.2%	Yes
HPH006*	0-140° Oe 0-25° KMW Babo 0-32% mash sacch	1°/0.2°/0.2%	Yes

*available until end of stock



▶ HPK - Hand, batteries

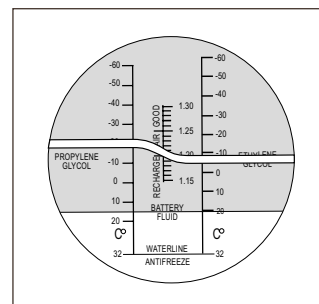
▶ For batteries



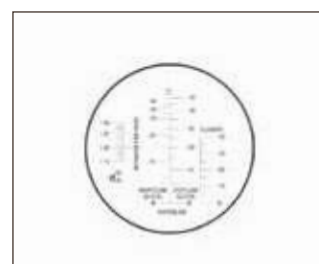
1 | Refractometer to measure the freezing point of antifreeze based on propylene glycol and ethylene glycol, as well as the state of the electrolyte solutions of the batteries, and the cleaning liquid (except HPK001 and HPK006).

2 | Calibrated with distilled water. Available in different scales

Code	Solution	Range	Accuracy	CAT
HPK001	Antifreezing	-60/32 °F (EG)	10 °F/0.01 sg	No
	Antifreezing	-50/32 °F (PG)		
	Electrolytic solution	1.15-1.30 sg		



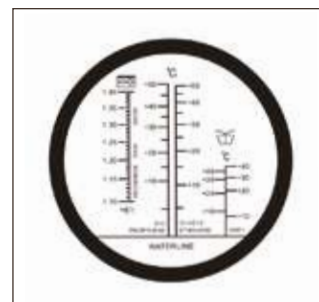
Code	Solution	Range	Accuracy	CAT
HPK002	Antifreezing	-50 a 0 °C (EG/PG)	5 °C 0.01 sg 5°C	No
	Electrolytic solution	1.15-1.30 sg		
	Cleaner	-40 a 0 °C		



*available until end of stock



Code	Solution	Range	Accuracy	CAT
HPK005	Anti-freezing	-50 a 0 °C (EG/PG)	5°C 0.01 Kg/L 10°C	Yes
	Electrolytic solution	1.10-1.40 Kg/L		
	Cleaner	-40 a 0 °C		



▶ HPM - Hand, clinical

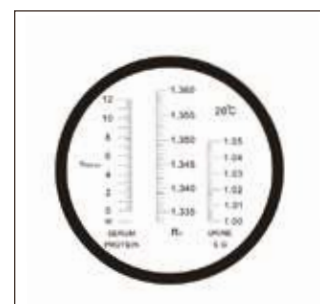
▶ Clinical Hand Refractometer 3 Scales



1 | Model that has three scales, the first for serum protein, the second indicates the specific weight of urine and the third the refractive index.

2 | Calibration is performed with distilled water by matching the separation line with the value 1.333 of the refractive index scale.

Code	Range	Accuracy	CAT (10-30°C)
HPM001	0 - 12 g/dl	0.2 % g/dL	No
	1.000-1.050 sg	0.002 sg	
	1.333-1.360 nD	0.005 nD	
HPM002	0 - 12 g/dl	0.2 % g/dL	Yes
	1.000-1.050 sg	0.002 sg	
	1.333-1.360 nD	0.005 nD	





▶ HPM - Hand, clinical

▶ URIVET hand refractometer

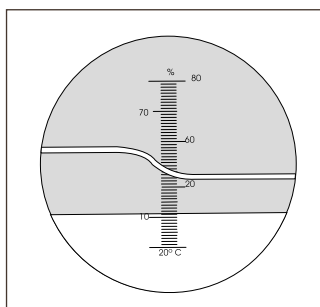
Zuzi

1 | Specially designed for veterinary applications and in particular for dog and cat urine analysis. Simple, fast and easy to use, it allows immediate readings with just a drop.

Code	Range	Accuracy	CAT (10-30°C)
HPM003	2-14 g/100 mL 1.000-1.060 sg	0.1 g/100 mL 0.001 sg	Yes

▶ HPP - Hand, others

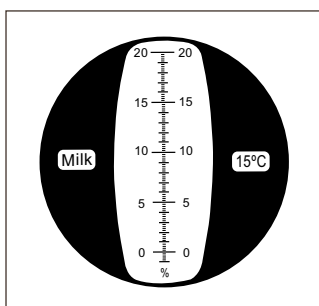
▶ Hand refractometer for alcohol

Zuzi

1 | Refractometer that measures the degree of alcohol in an aqueous solution, can be used for wines and liquors taking into consideration other components.
2 | Calibration is done with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPP001	0-80% Alcohol (w/w)	1%	No

▶ Hand refractometer for milk

Zuzi

1 | Refractometer indicated to know the concentration of water in the milk.
2 | Calibrated with distilled water.

Code	Range	Accuracy	CAT (10-30°C)
HPP002	-1%-20%	0.2%	Yes

▶ Hand refractometer, accessories

Zuzi

Code	Description
HPP004	Cover prism plate, two pieces
HPP005	Blinker for hand refractometers
HPP006	Plastic box for hand refractometers
HPP007	Test piece for the calibration of ABBE Refractomet
HPP009	Digital thermometer f/refractometer 325
HPP008	Lamp 6.3v, 2.5w for ABBE Refractometer 315



▶ HPP - Hand, others

▶ Refractometer 1.333-1.520 nD, 3 scales

Zuzi

- 1 | Handheld refractometers are very useful to know the concentration of dissolved solids (%Brix) or the refractive index (nD) of aqueous solutions.
- 2 | They allow a wide variety of samples to be analyzed thanks to their division into three scales that cover a wide measuring range.



Code	Range	Accuracy	CAT (10-30°C)
HPP003	1.333-1.515 nD (3 scales) (1.333-1.400 nD 1.400-1.470 nD 1.470-1.520 nD)	0.0005 nD	No

▶ Digital refractometer

COMECTA

- 1 | Portable and easy to operate. Digital screen alphanumeric. Measurement by optical image detection by photocells integrated in CCD camera and digital image processing technique.
- 2 | Prismatic tank in stainless steel with anti-corrosion cover.



Code	HPP501	HPP502
Model	NR-151	NR-101
Measure range		
Brix %	0,0 - 95,0%	0,0 - 60,0%
Refractive index hD	1,3330 - 1,5318 hD	1,3330 - 1,4419 hD
Salinity	-	0,0 - 28,0 %
Measuring range		
Brix %	0,1%	0,1%
Refractive index hD	0,0001 hD	0,0001 hD
Salinity	-	0,1 %
Accuracy de medición		
Brix %	±0,1%	±0,1%
Refractive index hD	±0,0002 hD	±0,0002 hD
Salinity	-	±0,1%
Temperature range	0 +40 °C 32 +140 °F	
Temperature resolution	0,1 °C 0,2 °F	
Temperature accuracy	±1 °C ±2 °F	



RESUME CHART OF REFRACTOMETERS

Type	No CAT	CAT (10-30°C)	Range	Accuracy	Calibration
BRIX	HPD001	HPD012	0 - 10%	0.1 %	Distilled water
	HPD002	HPD013	0 - 20%	0.1 %	Distilled water
	HPD003	HPD014	0 - 32%	0.2 %	Distilled water
	HPD004	HPD015	28 - 62%	0.2 %	Solution 28% sugar/water
	HPD005	HPD016	40 - 82%	0.5 %	Solution 45% sugar/water
	HPD006	HPD017	58-92%	0.5 %	Solution 58% sugar/water
	HPD007	HPD018	58 - 92% Bx 38 - 43 ° Bé 12 - 27% Water	0.5 % Bx 0.5 ° Bé 0.5 % Water	Bromonaphtalene + test piece
	HPD008	HPD019	0 - 50%	0.5 %	Distilled water
	HPD009	HPD020	0 - 80%	0.5 %	Distilled water
	HPD021		0-50% Bx 50-80% Bx	1 %	Distilled water
	HPD011		0 - 90%	0.5 %	Distilled water
SALINITY	HPF001	HPF004	0 - 100‰ Salinity 1000-1070 g/mL	1‰ 0.001 g/mL	Distilled water
	HPF002	HPF005	0 - 28% Salinity	0.2 %	Distilled water
		HPF007	0 - 100‰ Salinity 0 - 10% Bx	1 ‰ 0.1 %	Distilled water
			1000-1070 g/mL	0.001 g/mL	
CLINICAL	HPM001	HPM002	0 - 12 g/dl de Proteins in serum 1.000 - 1.050 Specific weight (sg) 1.333 - 1.360 nD (refraction index)	0.2 % g/dL 0.002 sg 0.005 nD	Distilled water
	VETERINARY	HPM003	2 - 14 g/100 mL de Proteins in serum 1.000 - 1.060 Specific weight	0.1 0.001	
	MOSTO AND ALCOHOL	HPP001		0 - 80% Alcohol (w/w)	1 %
		HPH003	0 - 25% Probable alcohol 0-40% Bx	0.2 % Probable alcohol 1 % Bx	
		HPH002	0 - 25% Probable alcohol	0.2 % Probable alcohol	Distilled water
FRUIT JUICE		HPH005	0-140° Oe	1° Oe	Distilled water
			0-25° KMW Babo 0-32% mash sacch	0.2° KMW Babo 0.2% mash sacch	
		HPH007	0-170° Oe	2° Oe	Distilled water
		HPP002	-1%-20%	0.2%	Distilled water
BATTERIES AND ANTIFREEZING	HPK001		- 60 a 32°F (EG) -50 a 32 °F (PG) 1.15 - 1.30 sg (Batteries)	10 °F 0.01 sg	Distilled water
		HPK002	-50 a 0 °C (EG/PG) 1.15 - 1.30 sg (Batteries)	5 °C 0.01 sg	Distilled water
			-40 a 0 °C (Cleaner)	5°C	
		HPK005	-50 a 0 °C (EG/PG) 1.10 - 1.40 Kg/L (Batteries)	5 °C 0.01 Kg/L	Distilled water
			-40 a 0 °C (Cleaner)	10°C	



HRB - Hand

▶ Metal ring magnifying glass

Zuzi

1 | Black metal ring handle that can be unscrewed and separated from the rest of the magnifying glass. The lens is glass.

Code	Diameter	Magnification
HRB010	50 mm	5x
HRB011	75 mm	3x



▶ Magnifying glass bifocal "Magnifier"

COMECTA

1 | Completely made of high impact plastic.

Code	Ø Lens	Magnification	Bifocal
HRB501	65 mm	3x	5x
HRB502	90 mm	2x	5x



▶ Magnifying glass monofocal "Magnifier"

COMECTA

1 | Lens made of high quality ground crystal. Rim made from chromed steel with plastic handle.

Code	Ø Lens	Magnification
HRB503	50 mm	2x
HRB504	75 mm	2x
HRB505	100 mm	2x



HRD - Table

▶ Table magnifying glass

Zuzi

1 | Metal base and flexible gooseneck to be placed in the most comfortable.
2 | Large diameter glass lens.

Code	Diameter	Magnification
HRD002	92 mm	3x





▶ HRD - Table

▶ Table top magnifiers with illumination

COMECTA



1 | Extendable and height adjustable angle poise, 89 cm made from epoxy coated metal.

Code	Lens size	Maginification	Power	Weight
HRD501	15x19 cm	3x	2x9W	3,5 Kg

COMECTA



1 | With support base, large base with adjustable height and orientation.

Code	Lens size	Maginification	Power	Weight
HRD502	16x19 cm	3x	2x7W	2,3 Kg



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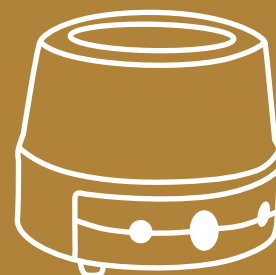
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[J]
 HEATING
 COOLING



JBB - Incubators

▶ Incubators series 636 PLUS



- 1 | Made of painted and oven-dried steel, epoxy coated metal exterior cabinet and stainless steel interior.
- 2 | Door with double glass window for external control without temperature variations in the inner chamber.
- 3 | Air circulation system by natural convection.
- 4 | Supplied with two height-adjustable grille trays.

Code	JBB005	JBB001	JBB002	JBB003	JBB004
Capacity	18 L	30 L	45 L	65 L	125 L
Temperature range	Ambient at 80°C				
Resolution	1 °C (configurable a 0.1°C)*				
Fluctuation temperature	± 1.0 °C				
Homogeneity	2%				
Power	0.3 Kw	0.3 Kw	0.3 Kw	0.4 Kw	0.5 Kw
Approx. dimensions (cm)					
external	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

* consult

▶ Bacteriological incubators



- 1 | Temperature regulating thermostat and analogue thermometer.
- 2 | For adjustable temperatures from room +5 °C to 80 °C.
- 3 | Stability: ±0.1 °C, at 37 °C. Homogeneity: ±0.5 °C, at 37 °C
- 4 | Inner door of tempered glass.
- 5 | Double chamber, easy-to-clean interior without openings

Code	JBB504
Capacity	36 L
Shelves positions	7
Power	245 W
Dimensions	
external	60x62x54 cm
internal	40x30x30 cm
Weight	20 Kg

▶ "Incubig-TFT"



- 1 | Microprocessor control and 4.3 inches TFT touch screen display.
- 2 | Large surface area heating elements.
- 3 | Inner chamber made of AISI 304 stainless steel.
- 4 | Double door, interior door of tempered glass that allows the user to see the contents of the chamber without opening the door.

Code	JBB509	JBB510	JBB511
Type	1 door	2 door	3 door
Capacity	288 L	400 L	720 L
Shelves positions	8	10	12
Power	570 W	1100 W	1600W
Dimensions (cm)			
external	97x91x76	130x114x75	152x134x85
internal	80x60x60	100x80x50	120x100x60
Weight	87 Kg	160 Kg	225 Kg



JBB - Incubators

▶ “Prebatem-TFT”



- 1| Microprocessor control and 4.3 inches TFT touch screen display.
- 2| Large surface area heating elements.
- 3| Inner chamber made of AISI 304 stainless steel.
- 4| Double door, interior door of tempered glass that allows the user to see the contents of the chamber without opening the door.

Code	JBB515	JBB516	JBB517
Capacity	36 L	80 L	150 L
Shelves positions	7	8	8
Power consumption			
at 5°C	70 W/hr	75 W/hr	90 W/hr
at 40°C	50 W/hr	55 W/hr	60 W/hr
Power	310 W	310 W	310W
Dimensions (cm)			
external	97x91x76	130x114x75	152x134x85
internal	80x60x60	100x80x50	120x100x60
Weight	54 Kg	73 Kg	94 Kg



▶ “Digitheat-TFT”



- 1| Natural convection.
- 2| Microprocessor control with tft touch screen.
- 3| Adjustable temperature from ambient +5 °C up to 250 °C.
- 4| Stability: ±0.3 °C, up to 150 °C. homogeneity: ±1 °C, up to 150 °C.
- 5| Set error: ±2 % of the working temperature. resolution: 1 °C.

Code	JBB519	JBB520	JBB522
Capacity	19 L	36 L	80 L
Shelves positions	5	7	8
Power	600 W	900W	1200W
Dimensions (cm)			
external	50X60X44	60X65X49	70x74x59
internal	30X25X25	40X30X30	50x40x40
Weight	24 Kg	35 Kg	59 Kg



▶ “Digitheat-TFT”- Poupinel



Code	JBB521	JBB530*	JBB523
Capacity	52 L	52 L	150 L
Shelves positions	5	5	8
Power	1000W	1000W	2100W
Dimensions (cm)			
external	53X82X52	53X82X52	70x95x68
internal	33X47X33	33X47X33	50x60x50
Weight	44 Kg	44 Kg	73 Kg

*115V instead of 230V





JBB - Incubators

▶ “Digitheat-TFT”



Model Digitronic type Poupine
CODE: JBB539 and JBB543



Model Digitronic with solid metal door.
CODE: JBB536 and JBB540
(With toughened glass window door
CODE: JBB537 and JBB541)



Model Digitronic type Poupinel, door with
toughened double glass window
CODE: JBB538 and JBB542

- 1| TFT touch screen.
- 2| Inner chamber made of AISI 304 stainless steel.
- 3| Pre-mixing chamber made of AISI 304 stainless steel.
- 4| Homogeneously distributed shielded heating elements with complete air circulation throughout.
- 5| Low external temperature due to excellent thermal insulation.
- 6| Flexible silicon door gasket around the entrance of the chamber.
- 7| Excellent door seal due to the floating inner door that adjusts and absorbs the thermal expansion.
- 8| Turbo fan made of AISI 304 stainless steel that makes to circulate the air at the working temperature.
- 9| Diagram showing the air flow from the pre-mixing chamber around the heating elements prior to entry to the oven's chamber.
- 10| Independent insulated control box. Epoxy coated outer case.

Code	JBB536	JBB537	JBB540	JBB541
Capacity	33 L	33 L	76 L	76 L
Door type	Metal	Glass	Metal	Glass
Heating rate (100°C)	15 min	15 min	17 min	17 min
Recovery time	7 min	7 min	9 min	9 min
Comp.air exchange	16/hr	16/hr	14/hr	14/hr
Shelves positions	7	7	8	8
Power	1200 W	1200W	1600W	1600W
Dimensions (cm)				
external	60x65x55	60x65x55	70x75x65	70x75x65
internal	40x28x30	40x28x30	50x38x40	50x38x40
Weight	38 Kg	40 Kg	58 Kg	64 Kg

Code	JBB538	JBB539	JBB542	JBB543
Capacity	47 L	47 L	145 L	145 L
Door type	Metal	Glass	Metal	Glass
Heating rate (100°C)	16 min	16 min	17 min	17 min
Recovery time	7 min	7 min	10 min	10 min
Comp.air exchange	16/hr	16/hr	12/hr	12/hr
Shelves positions	5	5	9	9
Power	1200 W	1200W	2000W	2000W
Dimensions (cm)				
external	53x81x58	53x81x58	70x95x72	70x95x72
internal	33x45x32	33x45x32	50x58x50	50x58x50
Weight	46 Kg	50 Kg	74 Kg	79 Kg

▶ “Incubator CO2”



- 1| External case of steel coated with epoxy with insulated chamber.
- 2| Two doors; one interior of tempered glass with silicon gasket and a heated external steel door with magnetic seal to prevent condensation on the glass door.
- 3| Smooth door action, to prevent jolts or vibrations

Code	JBB545
Capacity	150 L
Shelves positions	9
Power	1100 W
Dimensions (cm)	
external	95x65x73
internal	65x50x46
Weight	110 Kg



▶ JBB - Incubators

▶ Incubator for Petri capsules



- 1 | Natural convection.
- 2 | Microprocessor regulation and temperature digital control.
- 3 | For adjustable temperatures from ambient +5°C to 60°C.
- 4 | Stability: ±0,1°C to 37°C. Homogeneity: ±0,1°C to 37 °C. Setpoint error: ±0,1°C. Resolution: 0,1°C.



Code	JBB546
Margin T ^a	RT +5°C to 60°C
Dimensions (cm)	
external	9x45x24
internal	2x32x22
Power	200 W
Weight	3,5 Kg

▶ Speed orbital shaker.“D-1102”



- 1 | Model D-110 2 for adjustable temperatures from +4°C to 60°C.
- 2 | With forced air circulation with or without cooling.
- 3 | Digital electronic regulation of speed, temperature and time. for long periods of operation.



Code	JBB547
Rotation range	25 mm
Speed range	de 25 a 300 r.p.m.
Speed control in steps of	1 r.p.m.
Refrigeration	No
Heating	Yes
Temperature control in steps of	0.1 °C
Timer	de 0 a 999 hours
Useful platform, measures	460 x 460 mm
Dimensions (cm)	620 x 630 x 840 mm
Power	200 W
Weight	3,5 Kg

▶ “Incudigit-TFT”



- 1 | Natural convection.
- 2 | Digital control and display of temperature and time.
- 3 | Adjustable temperature from ambient +5 °C up to 80 °C.
- 4 | Stability: ±0.1 °C, up to 37 °C. Homogeneity: ±0.5 °C, up to 37 °C.
- 5 | Set error: ±2% of the working temperature, resolution 0.1 °C
- 6 | Internal tempered glass door.



CODE: JBB560, JBB561, JBB563 and JBB564

Code	JBB560	JBB561	JBB562*	JBB563	JBB564
Capacity	19L	36L	52L	80L	150L
Dimensions (cm)					
external	51x57x49	60x62x54	53x79x57	70x72x64	70x92x74
internal	30x25x25	40x30x30	33x47x33	50x40x40	50x60x50
Shelves	5	5	5	8	8
Power	170 W	225 W	275 W	300W	525W
Weight	26 Kg	36 Kg	46 Kg	54 Kg	75 Kg



CODE: JBB5

JBB - Incubators

▶ “Incubat”



- 1 | Natural convection.
- 2 | Temperature thermostat control with digital thermometer.
- 3 | Adjustable temperatures from ambient +5 °c up to 80 °c.
- 4 | Stability: ±0.1 °c, up to 37 °c. homogeneity: ±0.5 °c, up to 37 °c
- 5 | Internal glass door.

Code	JBB565	JBB566	JBB567	JBB568	JBB569
Capacity	19L	36L	52L	80L	150L
Dimensions (cm)					
external	51x57x49	60x62x54	53x79x57	70x72x74	70x92x74
internal	30x25x25	40x30x30	33x47x33	50x40x40	50x60x50
Shelves	5	7	5	8	8
Power	165 W	245 W	275 W	325W	545W
Weight	26 Kg	36 Kg	46 Kg	54 Kg	78 Kg

JBD - Drying ovens

▶ Drying oven, series 631 PLUS



- 1 | Epoxy coated metal exterior cabinet and stainless steel interior. Adjustable legs to facilitate the installation and leveling of the stove.
- 2 | Door with 180° opening window with double thermal safety glass for external control, without temperature variations in the interior chamber.
- 3 | Air circulation system by natural convection (by changing densities).
- 4 | Supplied with two height-adjustable grille trays.
- 5 | Two heating speeds that can be selected with a button (except in ref.JBD009).

Code	JBD009	JBD001	JBD002	JBD003	JBD004
Capacity	18 L	30 L	45 L	65 L	125 L
Temperature range	80°C a 250 °C				
Resolution	1 °C (configurable a 0.1°C)*				
Fluctuation temperature	± 1.0 °C				
Homogeneity	2%				
Power	0.6 Kw	0.8 Kw	1.0 Kw	1.5 Kw	2.3 Kw
Approx. dimensions (cm)					
external	44x38x55	46x51x69	50x55x73	55x55x84	64x68x91
internal	26x26x26	31x31x31	35x35x35	40x36x45	50x45x55
Weight	20 Kg	39 Kg	42 Kg	53 Kg	58 Kg

* consult

▶ Forced air ovens, series 632 PLUS



- 1 | Forced air circulation by means of a fan.
- 2 | Fan on/off switch.

Code	JBD005	JBD006	JBD007	JBD008
Capacity	30 L	45 L	65 L	125 L
Temperature range	80 - 250°C			
Resolution	1°C (configurable a 0.1°C)*			
Fluctuation temperature	±1,0°C			
Homogeneity	2%			
Power	0.8 Kw	1.0 Kw	1.5Kw	2.3Kw
Approx. dimensions cm				
external	46x51x69	50x55x73	55x55x84	64x68x91
internal	31x31x31	35x35x35	40x36x45	50x45x55
Weight	39 Kg	42 Kg	53 Kg	58 Kg

* consult



JBD - Drying ovens

Drying oven "Conterm"



- 1| Natural convection.
- 2| Temperature regulating thermostat and analogue thermometer.
- 3| For adjustable temperatures from 40 °C to 250 °C.
- 4| Stability: ± 0.3 °C, at 150 °C. Homogeneity: ± 3.25 °C, at 150 °C.

Code	JBD506
Capacity	19 L
Shelves positions	5
Power	640 W
Dimensions (cm)	
external	50x60x44
internal	30x25x25
Weight	27 Kg



Glass drying oven "Dryglass"



- 1| Hydraulic thermostat for temperature control. Air circulation by turbo fan. Inner chamber made of AISI 304 stainless steel with shelf runners. Removable tempered glass sliding doors. Ventilation port for steam. Epoxy coated external case.
- 2| Supplied with 2 shelves and 4 shelf guides.
- 3| Dual heating power selector switch. Mains indicator lamp. Hydraulic thermostat for temperature control. Locking system of thermostat knob. Heater "ON" operation indicator lamp. Analogue thermometer. Adjustable over temperature safety thermostat, that cuts off the power if the control thermostat fails, manual reset with "on" indicator lamp.

Code	JBD512
Capacity	126 L
Shelves positions	8
Power	3000 W
Dimensions (cm)	
external	66x94x54
internal	45x70x40
Weight	65 Kg



Poupinel dry heat sterilizer "Dryterm"



- 1| Heating by shielded elements in the base that provides a rapid rise in temperature. Flap door. Inner chamber made of AISI 304 stainless steel, complete with a heater cover, three shelf runners and two perforated shelves 10 mm high. Epoxy-coated outer casing.
- 2| Hydraulic thermostat temperature control. Locking device for thermostat knob. Timer 0 to 120 min. with automatic switch off. Heater "ON" indicator. Analogue temperature reading thermometer.

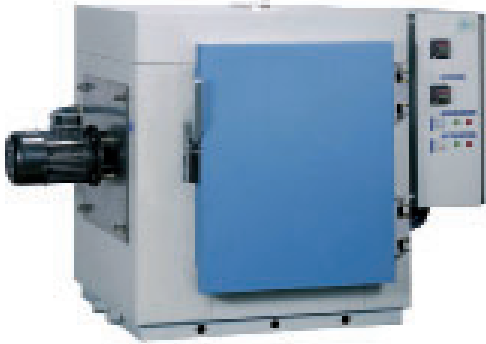
Code	JBD513
Capacity	19 L
Temperature range	From 60 °C up to 250 °C
Shelves positions	8
Power	770 W
Dimensions (cm)	
external	37x54x34
internal	25x32x23
Weight	19 Kg





JBD - Drying ovens

▶ “Precisterm”



- 1 | With built in drain tap.
- 2 | Double skinned tank of AISI 304 stainless steel with an exterior case of AISI 304 stainless steel.
- 3 | Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

Code	JBD515
Capacity	45 L
Max temp	200 °C
Power	3800 W
Dimensions (cm)	
external	22x69x62
internal	15x62x50
Weight	18 Kg

▶ “Vaciotem-T”



- 1 | Digital temperature and timer control.
- 2 | Controllable temperature from 35 °C to 200 °C.
- 3 | Stability ± 1 °C, up to 100 °C. homogeneity ± 2 °C, up to 100 °C. set error ± 1 °C. resolution 1 °C.

Code	JBD516
Capacity	45 L
Vacuum max	10 ² mm Hg
Shelves	2
Dimensions (cm)	
external	54x76x70
internal	34x52
Power	2000 W
Weight	73 Kg

▶ “Vaciotem-TV”



- 1 | Digital temperature control, electronic vacuum pressure display and timer.
- 2 | Controllable temperature from 35 °C to 200 °C
- 3 | Stability ± 1 °C, up to 100 °C. Homogeneity ± 3 °C, up to 100 °C. Set error ± 2 °C. Resolution 1 °C.

Code	JBD517
Capacity	47 L
Vacuum max	10 ² mm Hg
Shelves	2
Dimensions (cm)	
external	54x76x70
internal	34x52
Power	2000 W
Weight	73 Kg



JBD - Drying ovens

▶ Poupinel dry heat sterilizer "Drytime II"



- 1| Heating by shielded elements in the base which provide a rapid temperature rise.
- 2| Flap door.
- 3| Inner chamber in AISI 304 stainless steel.
- 4| Removable tank with extraction clamps.

Code	JBD518
Capacity	1,5 L
Dimensions (cm)	
external	15x31x20
internal	6,5x25x12
Power	300 W
Weight	4 Kg



▶ "Dry-Big"



- 1| Microprocessor controlled with digital display of temperature and time, pre-programmable time start and run time once the set temperature has been achieved through the Pt100 temperature sensor.
- 2| Inner chamber made of AISI 304 stainless steel.
- 3| Pre mixing chamber made of AISI 304 stainless steel.
- 4| Three phase except for models* JDB531 and JBD533(230 single phase)

Code	JBD530	JBD531*	JBD532	JBD533*
Capacity	216L	216L	288L	288L
Heating rate 100°C	16 min	16 min	18 min	18 min
Recovery time	10 min	10 min	10 min	10 min
Dimensions (cm)				
external	87x112x84	87x112x84	107x12x84	107x12x84
internal	60x60x60	60x60x60	80x60x60	80x60x60
Air exchanges	12/hr	12/hr	11/hr	11/hr
N° Shelf	6	6	8	8
Power	4000 W	4000 W	5000 W	5000W
Weight	150 Kg	150 Kg	161 Kg	161 Kg



▶ "Dry-Big" double door cabinet



- 1| Microprocessor controlled with digital display of temperature and time, pre-programmable time start and run time once the set temperature has been achieved through the Pt100 temperature sensor.
- 2| Inner chamber made of AISI 304 stainless steel.
- 3| Pre mixing chamber made of AISI 304 stainless steel.
- 4| Three phase except for models* JDB531 and JBD533(230 single phase)

Code	JBD534	JBD535
Capacity	400L	720L
Heating rate 100°C	18 min	19 min
Recovery time	13 min	13 min
Dimensions (cm)		
external	128x132x74	150x152x80
internal	100x80x50	120x100x60
Air exchanges	13/hr	13/hr
N° Shelf	10	12
Power	5250W	6000 W
Weight	200 Kg	264 Kg



JBD - Drying ovens

▶ “Conterm”



- 1 | Natural convection.
- 2 | Temperature thermostat control with digital thermometer.
- 3 | For adjustable temperatures from 40 °c up to 250 °c.
- 4 | Stability: ±0.5 °C up to 150 °c. Homogeneity: ± 1.5 °C up to 150 °c.

Code	JBD540	JBD541	JBD543*	JBD544	JBD545*
Capacity	19L	36L	52L	80L	150L
Dimensions (cm)					
external	50x60x44	60x65x49	53x82x52	70x74x59	70x95x68
internal	30x25x25	40x30x30	33x47x33	50x40x40	50x60x50
Shelves	5	7	5	8	8
Power	580 W	870 W	980 W	1150 W	1900 W
Weight	27 Kg	35 Kg	44 Kg	54 Kg	76 Kg

* Type Poupinel

JBG - Drying ovens, accessories

▶ Accessories incubators and drying ovens Nahita'



Code	Description	Model			
		30L	45L	65L	125L
JBG001	Shelf 28x28 cm	i			
JBG002	Shelf 32x32 cm		i		
JBG003	Shelf 37x33 cm			i	
JBG004	Shelf 47x42 cm				i
JBG005	Fastening guide	i			
JBG006	Fastening guide		i	i	

i = Accessory **included** with the specified equipment **□** = Accessory **compatible** with the specified equipment

▶ Accessories incubators and drying ovens Selecta

Code	Description	For ovens
JBG501	Calibration certificate	BOXCULT
JBG503	Timer 0 to 12 hours	CONTERM and INCUBAT
JBG504	Co ₂ Analyse	INCUBATOR CO ₂
JBG507	Shelf oven 375x395 mm	
JBG508	Shelf oven/incu.120x100x60 cm	DRY-BIG and INCUBIG 720 L
JBG509	Shelf oven 390x390	INCUDIGIT-TFT; PREBATEM - TFT;CONTERM; DIGITHEAT-TFT; INCUBAT 80 L DIGITRONIC 145 L
JBG510	Shelf oven 275x295 mm	
JBG511	Shelf oven 445x330 mm	
JBG512	Shelf oven 295x295 mm	INCUBAT; INCUDIGIT-TFT; PREBATEM-TFT; CONTERM and DIGITEAT-TFT 36 L DIGITRONIC 47 L
JBG513	Shelf oven 595x500 mm	INCUBAT; INDUGIT-TFT; PREBATEM-TFT; CONTERM and DIGITHEAT-TFT 150 L
JBG514	Shelf incubator 295x295 mm	INCUBIG 288 L
JBG515	Shelf oven 245x245 mm	DIGITHEAT-TFT 19 L; DIGITRONIC 33 L; INCUBAT 19 L
JBG516	Shelf oven 465x330 mm	INCUDIGIT-TFT; CONTERM; DIGITHEAT-TFT; INCUBAT 52 L and DIGITRONIC 76 L
JBG517	Shelf oven dryglass	DRYGLASS 126 L
JBG518	Shelf oven 575x495 mm	
JBG519	Shelf oven 60x60-80x60 mm fan	DRY-BIG 216-288 L
JBG520	Shelf oven/incubator 100x80x50 mm	DRY-BIG et INCUBIG 400 L
JBG521	Shelf oven 400°C hightemp	HIGHTEMP
JBG522	Shelf runners (2) oven dryglass	DIGITHEAT-TFT; INCUBAT and INCUDIGIT-TFT 19 L
JBG523	Shelf runners (2) 19 L	DIGITHEAT-TFT; INCUBAT and INCUDIGIT-TFT 19 L
JBG524	Shelf runners (2) inc. incubig 288 L	INCUBIG 288 L
JBG525	Shelf runners (2) 150 L	CONTERM 150 L
JBG526	Printer:temp.,Co ₂ ,time,status	INCUBATOR CO ₂



▶ JBJ - Refrigerated incubators

▶ Refrigerated cabinets "Medilow-S"



- 1| With forced air fan circulation.
- 2| With digital electronic temperature control.
- 3| Temperature range controllable from +2 °C to +40 °C. With a stability of ± 1.5 °C.
- 4| Resolution 1 °C.

Code	JBJ501
Capacity	180 L
Dimensions (cm)	
external	85x60x85
internal	70x51x44
Shelves	3
Internal power points	2
Power	250 W
Weight	36 Kg



▶ Refrigerated cabinets "Medilow-M and L"



- 1| Temperature range controllable from +2 °C to +40 °C. With a stability of ± 1.5 °C. Resolution 1 °C.
- 2| Electronic temperature control with digital display. Pt 100 temperature probe. Probe failure alarm.

Code	JBJ502	JBJ503
Capacity	236 L	544 L
Dimensions (cm)		
external	125x60x85	164x75x95
internal	106x47x44	145x60x56
Shelves	3	4
Internal power points	2	2
Power	330 W	330 W
Weight	47 Kg	73 Kg



▶ Refrigerated cabinets "Medilow-LG"



- 1| Double glass door. Epoxy covered external case. Easy to clean, strong, molded ABS Interior. Vibration and CFC free hermetically sealed compressor. Turbine fan air circulation, enclosed within the unit. External hole for connecting inside probes, etc.
- 2| Internal power connection to a maximum of 500 W.
- 3| Adjustable level front supports.
- 4| Door can be hung to open left or right.

Code	JBJ504
Capacity	544 L
Dimensions (cm)	
external	164x75x95
internal	145x60x56
Shelves	4
Internal power points	2
Power	330 W
Weight	82 Kg



▶ JBJ - Refrigerated incubators

▶ Refrigerated cabinet “Hotcold S”



- 1 | Forced air circulation.
- 2 | Digital electronic control of temperature and time,
- 3 | Adjustable from +5 °C to 65 °C.
- 4 | Stability ±0.1 °C, up to 20 °C. homogeneity ±0.5 °C, up to 20 °C. set error ±2 °C.
- 5 | Resolution 0.1 °C.

Code	JBJ505
Capacity	160 L
Dimensions (cm)	
external	128x63x63
internal	65x50x43
Range	+5°C - +65°C
Shelves	10
Motor HP	3/8
Power	400 W
Weight	70 Kg

▶ JBM - Refrigerated incubators, accessories

Code	Description	For ovens
JBM501	Guides (2) set hotcold s	HOTCOLD S
JBM502	Shelves hotcold s	HOTCOLD S

▶ JBP - Muffle furnaces

▶ Serie 642



- 1 | Outer metal housing with epoxy pain protective. Inner built with low density refractory bricks and isolating fibers that provides great temperature uniformity.
- 2 | Drop down door that allow loading and removal the materials easily (except 642/16).
- 3 | Digital automatic pyrometer regulation, microprocessor, alarm, PID parameters and non-volatile memory.
- 4 | Accessories: regulation ramps: 1 program of 8 steps or 4 programs of 16 steps; smoke extractor chimney, forced smoke extractor chimney.

Code	JBP001	JBP002	JBP003	JBP004	JBP005
Model	642/3	642/6	642/8	642/12	642/16
Capacity	3.6 L	6 L	7.6 L	12 L	18 L
Maximum temperature	1200°C				
T ^a max limited working	1100°C				
Potency (W)	1200W	2000W	3800W	3800W	4500W
Thermocouple	Tipo K				
Control	Digital				
Heater	Thread Kanthal AF				
Heating place	2	3	3	2	3
Door	Down	Down	Down	Down	Side
Controlador	Bottom	Bottom	Bottom	Bottom	Side
Dimensions					
interior (AxAnxF)	12x15x20 cm	15x20x20 cm	16x20x24 cm	20x25x28 cm	23x26x30 cm
exterior (AxAnxF)	45x35x43 cm	40x50x45 cm	50x55x55 cm	49x44x50 cm	60x70x60 cm
Voltage (V)	220V				
Weight (kg)	30 Kg	45 Kg	45 Kg	45 Kg	60 Kg



▶ JBP - Muffle furnaces

▶ “Select-Horn-TFT”



Code	JBP501	JBP502
Capacity	3,6 L	9 L
Dimensions (cm)		
exterior	52x54x56	58x59x65
interior	10x15x24	15x20x30
Power	330 W	330 W
Weight	47 Kg	73 Kg



▶ Electric muffle furnaces “R-3 L” and “R-8 L”



Code	JBP503	JBP504
Model	N-3	N-8
Capacity	3L	8 L
Dimensions (cm)		
exterior	43x34x47	51x44x56
interior	11.5x12.5x20	13x20x30
Power	1700 W	1800 W
Weight	18 Kg	28 Kg



▶ Electric muffle furnace “N-30 L” and “N-80 L”



Code	JBP505	JBP510
Model	N-30L	N-80L
Capacity	30 L	80 L
Dimensions (cm)		
exterior	87x64x84	157x94x98
interior	29x20x44	48x40x40
Power	1700 W	1800 W
Weight	18 Kg	28 Kg



▶ Electric muffle furnaces “N-3 L”, “N-8 L”, “N-13 L”, “N-22 L”,



Code	JBP506	JBP507	JBP508	JBP509
Model	N-3 L	N-8 L	N-13L	N-22L
Capacity	3 L	8,2 L	13 L	22 L
Dimensions (cm)				
exterior	43 34 47	50 44 53	55 50 70	61 60 89
interior	11,5 12,5 20	14 20 30	18 22,5 36	15,5 27,5 50
Power	1700 W	1800 W	1800 W	3000W
Voltage	230V	230V	220V	230V
Weight	18 Kg	33 Kg	38 Kg	58 Kg





▶ JBR - Muffle furnaces, accessories

Code	Description	Model				
		642/3	642/6	642/8	642/12	642/16
JBR001	Ramp programmer, 1 program 8 segments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JBR002	Ramp programmer, 4 program 15 segments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JBR003	Chimney extractor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JBR004	Forced chimney extractor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JBR005	Oven floor ceramic tray	<input type="checkbox"/>				
JBR006	Steel refractory tray	<input type="checkbox"/>				
JBR007	Oven floor ceramic tray					
JBR008	Steel refractory tray		<input type="checkbox"/>			
JBR009	Oven floor ceramic tray			<input type="checkbox"/>		
JBR010	Steel refractory tray			<input type="checkbox"/>		
JBR011	Oven floor ceramic tray				<input type="checkbox"/>	
JBR012	Steel refractory tray				<input type="checkbox"/>	
JBR013	Oven floor ceramic tra					<input type="checkbox"/>
JBR014	Steel refractory tray					<input type="checkbox"/>

▶ Muffle furnaces, accesories

Code	Description
JBR501	External outlet pipe furnace
JBR502	Exterior exhaust tube
JBR503	Exterior exhaust tube w/fan
JBR504	Exter.exhaust tube w/fan+cat

▶ JDB - Water/Oil baths, analogical

▶ Water bath for education



- 1 | Polycarbonate tank, lacquered metal body and stainless steel heating element.
- 2 | Adjustable temperature, with safety thermostat according to DIN12877, class 2.
- 3 | Stainless steel rack for 20 tubes of 16 mm diameter.
- 4 | Recommended for teaching.

Code	JDB001
Model	RS 3.5
Volumen	3.5 Litros
Temperature range	Ambient - 90°C
Regulation temperature	Analogic
Operating light	Yes
Power	350 W

▶ Water and oil baths “Univeba”



- 1 | Water bath: adjustable temperature from ambient +5 °C to 110 °C stability ±2 °C.
- 2 | Oil bath: adjustable temperature from ambient +5 °C to 200 °C stability ±3 °C.

Code	JDB501	JDB502
Maximum temp	110 °C	200 °C
Capacity	2,5 L	2,5 L
ØxHeight	18x13 cm	18x13 cm
Exterior dimensions	19x22x27 cm	19x22x27 cm
Power	390 W	640 W
Weight	4 Kg	4 Kg



▶ JDB - Water/Oil baths, analogical

▶ Water and oil baths "Termobat"



- 1 | Adjustable temperature from ambient+5 °c to 110 °c. Stability ±2 °c to 200 °c. Stability ±3 °c.
- 2 | Tank interior made of AISI 304 stainless steel,with an epoxy coated base.



Code	JDB503	JDB504
Maximum temp	110 °C	200 °C
Capacity	11 L	11 L
Ø (usable) xHeight	29x17 cm	29x17 cm
Ø (exterior) xHeight	29x25 cm	29x25 cm
Power	2100 W	2100 W
Weight	5,5 Kg	5,5 Kg

Compatible accessories Termobat - NOT included with the equipment



Perforated shelf
Code JDG512



Reducing discs
Code JDG525

Code	Description
JDG512	Perforated s.s.shelf
JDG525	Reducing discs

▶ Water bath "Aquaterm"



- 1 | AISI 304 stainless steel tank with epoxy coated base.
- 2 | Heater element embedded in high temperature, corrosive resistant INCOLOY.
- 3 | Temperature regulator thermostat switch, synchronised with an indicator lamp.



Code	JDB505
Capacity	1,5 L
Ø (usable) xHeight	20x11,5 cm
Ø (exterior) xHeight	22x20,5 cm
Power	640 W
Weight	1,3 Kg

Compatible accessories Aquaterm - NOT included with the equipment



Perforated shelf
Code JDG514



Reducing discs
Code JDG523

Code	Description
JDG514	Perforated shelf
JDG523	Reducing discs set with cover

▶ Water and oil baths "Precistern"



- 1 | Double skinned tank of AISI 304 stainless steel with an exterior case of AISI 304 stainless steel.
- 2 | Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

Code	JDB506	JDB507	JDB508	JDB509	JDB510
Max. temp.	110 °C	110 °C	110 °C	110 °C	110 °C
Capacity	2 L	5L	12L	20 L	45 L
Dimensions					
Usable	15x15x13cm	15x30x14cm	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	20x20x27cm	20x37x27cm	20x40x42cm	20x58x42cm	22x69x62cm
Power	390 W	600 W	1110 W	1500 W	2400 W
Weight	3,5 Kg	6 Kg	8 Kg	10 Kg	18 Kg



JDB - Water/Oil baths, analogical

Water and oil baths "Precistern"



Code	JDB511	JDB512	JDB513	JDB514	JDB515
Max. temp.	200 °C	200 °C	200 °C	200 °C	200 °C
Capacity	2 L	5L	12L	20 L	45 L
Dimensions					
Usable	15x15x13cm	15x30x14cm	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	20x20x27cm	20x37x27cm	20x40x42cm	20x58x42cm	22x69x62cm
Power	640 W	1110 W	1400 W	2100 W	3800 W
Weight	3,5 Kg	6 Kg	8 Kg	10 Kg	18 Kg

Sand baths "Combiplac-Sand"



- 1 | Electronic energy heater controller.
- 2 | The steel hotplate surface has an evenly distributed heater element providing homogeneous heat distribution.

Code	JDB516	JDB517
Dimensions		
Usable	5x18x38 cm	5x30x30 cm
Exterior	18x22x41 cm	21x32x35 cm
Power	2300 W	2800 W
Weight	13 Kg	15 Kg

Bank of oil and water baths "Precisbat"



- 1 | Adjustable temperatures from ambient +5 °C up to 200 °C, stability ± 2 °C.
- 2 | Independent temperature control for each position.
- 3 | Inner vessel made of AISI 304 stainless steel with the external case made of AISI 304 stainless steel.

Code	JDB518	JDB519	JDB520
Max. temp	200 °C	200 °C	200 °C
Num places	2	4	6
Dimensions			
Usable	12x14x12cm	12x14x12cm	12x14x12cm
Exterior	19x35x29cm	19x67x29cm	19x100x29cm
Power	1300 W	2560 W	4200 W
Weight	5,5 Kg	10 Kg	15 Kg

Compatible accessories Precisbat - NOT included with the equipment



Perforated shelf 2L
Code JDG511

Code	Description
JDG511	Perforated s.s.shelf 2L



▶ JDB - Water/Oil baths, analogical

▶ Boiling bath "Baher"



- 1| Adjustable temperature from 30 °c to 110 °c. stability ± 3 °c.
- 2| Rapid boiling (6-7 minutes).
- 3| AISI 304 stainless steel tank and epoxy coated base.
- 4| Heater element embedded in INCOLOY stainless steel.

Code	JDB521
Capacity	1 L
Ø (usable) xHeight	14x11 cm
Ø (exterior) xHeight	15x19 cm
Power	640 W
Weight	1 Kg



Compatible accessories Baher - NOT included with the equipment



Cover with handle

Code JDG510

Code	Description
JDG510	Cover with handle

▶ JDD - Water/Oil baths, digital



▶ Digital water bath

- 1| Stainless steel tank in one piece free of welds, coupled to an exterior metal cabinet with epoxy coating.
- 2| Acoustic signal at the end of the selected time, in continuous mode or in programmed periods. Acoustic signal indicating overheating of the bath (>5°C of the selected temperature)

Code	JDD001	JDD002	JDD003	JDD004
Model	601/3	601/5	601/12	601/19
Capacity	2,5 L	5 L	12 L	19 L
Temperature range		Ambient – 100°C		
Resolution	1 °C			
Timer		1 - 9999 min		
Holes	1	2	4	6
Dimensions (mm)	145x130x100	295x145x100	320x290x100	490x290x100
Weight	2,45 kg	4,10 kg	6,35 kg	8,45 kg



▶ Digital oil bath



- 1| Stainless steel tank in one piece free of welds, coupled to an exterior metal cabinet with epoxy coating.
- 2| Acoustic signal at the end of the selected time, in continuous mode or in programmed periods, and acoustic signal indicating the overheating of the bath

Code	JDD005	JDD006
Model	602/3	602/5
Capacity	2,5 L	5 L
Temperature range	Ambient – 200°C	
Resolution	1°C	1°C
Timer	1 - 9999 min	
Holes	1	2
Dimensions (mm)	145x130x100 mm	295x145x100 mm
Weight	4 kg	7 kg



JDD - Water/Oil baths, digital

Water and oil baths "Precisdig"



- 1 | Double skinned tank of AISI 304 stainless steel with an exterior case of AISI 304 stainless steel.
- 2 | Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.



Code	JDD505	JDD506	JDD507	JDD508
Max. temp.	200 °C	200 °C	200 °C	200 °C
Capacity	5 L	12L	20L	45 L
Dimensions				
Usable	15x30x14cm	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	20x37x27cm	20x40x42cm	20x58x42cm	20x69x62cm
Power	1100 W	1400 W	2100 W	3800 W
Weight	6 Kg	8 Kg	10 Kg	18 Kg



Code	JDD531	JDD532	JDD533	JDD534
Max. temp.	99,9 °C	99,9 °C	99,9 °C	99,9 °C
Capacity	5 L	12 L	20 L	45 L
Dimensions				
Usable	15x30x14cm	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	20x37x27cm	20x40x42cm	20x58x42cm	20x69x62cm
Power	600 W	1100 W	1500 W	2400 W
Weight	6 Kg	8 Kg	10 Kg	18 Kg

Code	JDD535	JDD536	JDD537
Max. temp.	99,9 °C	99,9 °C	99,9 °C
Capacity	12 L	20 L	45 L
Dimensions			
Usable	15x30x30cm	15x48x30cm	15x62x50cm
Exterior	40x40x42cm	40x58x42cm	40x69x62cm
Power	1100 W	1500 W	2400 W
Weight	8 Kg	10 Kg	18 Kg

"Unitronic Reciprocating and Unitronic Reciprocating C Shaking Bath"



- 1 | Adjustable temperature range from ambient +5°C up to 80°C. Stability ±0.1°C.
- 2 | Set temperature accuracy ±1 °C, working temperature precision 0.1 °C.

Code	JDD511	JDD512
Refrigeration	No	Yes
Capacity	27 L	27 L
Dimensions		
Bath	18 48 29 cm	18x48x29 cm
Support carriage	17x35x24 cm	17x35x24 cm
Exterior	30x74x40.5 cm	30x74x63.5 cm
Power	1500 W	1750 W
Weight	25 Kg	43 Kg

Compatible accessories Unitronic - NOT included with the equipment



Gable cover
Code JDG504



Platform
Code JDG529

Code	Description
JDG504	Gable cover
JDG529	Platform for Erlenmeyer flasks



▶ JDD - Water/Oil baths, digital

▶ Bath circulators “Digiterm-S-150”



- 1 | Cuvettes set of 20 and 27 l. capacity, with thermostatic equipment included.
- 2 | For temperatures from amb+5 to 150 °C. Stability: $\pm 0,1$ °C. resolution: 0.1 °C.

Code	JDD513	JDD514
Temp range	150 °C	150 °C
Capacity	20 L	27 L
Dimensions		
Interior	15x30x29 cm	20x30x29 cm
Exterior	36x55x35 cm	41x55x35 cm
Pump		
Pressure	150 mbar	150 mbar
Pump rate	12 l/min	12 l/min
Power	2000 W	2000 W
Weight	9,2 Kg	10,8 Kg



▶ Bath circulators “Digiterm-TFT-200”



- 1 | With immersion thermostat digiterm-tft-200.
- 2 | Cuvettes set of 20 and 27 l.
- 3 | From ambient +5 °C to 200 °C. stability ± 0.1 °C. set error ± 2 °C. resolution 0.1 °C.

Code	JDD515	JDD516
Temp range	200 °C	200 °C
Capacity	20 L	27 L
Dimensions		
Interior	15x30x29 cm	20x30x29 cm
Exterior	36x55x35 cm	41x55x35 cm
Pump		
Pressure	150 mbar	150 mbar
Pump rate	12 l/min	12 l/min
Power	2060 W	2060 W
Weight	10 Kg	12 Kg



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Compatible accessories Digiterm - Not included with the equipment



Support frame
Code JDL501



Constant level
Code JDL502



Thermostat
Code JDN504



Thermostat
Code JDN505

Code	Description
JDL501	Support-frame thermostat baths
JDL502	Constant level for cuvettes 20 cm
JDN504	Thermostat inmers.Digiterm S-150
JDN505	Thermostat inmers.digiterm TFT-200

▶ “Unitronic-OR”



- 1 | Digital electronic regulation of temperature, time and speed of stirring
- 2 | For adjustable temperatures from room temperature +5 to 36 °C.
- 3 | Stability $\pm 0,05$ °C. Homogeneity $\pm 0,1$ °C. Set point error ± 1 °C. Resolution 0,1 °C.

Code	JDD517	JDD518
Model	OR-4	OR-12
Capacity	4	12
Dimensions		
Exterior	40x54x44 cm	40x74x44 cm
Power	1500 W	2000 W
Weight	25 Kg	34 Kg





JDD - Water/Oil baths, digital

▶ Viscometer Precision Bath "VB-1423"



- 1 | For controllable temperatures from amb.+5 °C to 100 °C. stability ±0.1 °C. homogeneity ±0.1 °C. reading error ±0.09 °C. resolution 0.1 °C.
- 2 | Temperature sensor PT100 thermo-resistor, stainless steel aisi 304 lid with three viscometer locations ports, three independent lids and an additional location port for the control thermometer.

Code	JDD522
Control range	amb.+5°C up to 100 °C
Capacity	20 L
Height / Ø	
Total	32x30 cm
Tank	47x30 cm
Power	1500 W
Weight	25 Kg

JDG - Water/Oil baths, accessories

Code	Description	Model		
		AGIBAT-20	PRECISTERM	PRECISDIG
JDG501	Gable cover s.steel 5 L		<input type="checkbox"/>	<input type="checkbox"/>
JDG502	Gable cover s.steel 12 L		<input type="checkbox"/>	<input type="checkbox"/>
JDG503	Gable cover s.steel 20 L	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG505	Gable cover s.steel 45 L		<input type="checkbox"/>	<input type="checkbox"/>
JDG506	Stainless steel cover 1 hole		<input type="checkbox"/>	
JDG507	Stainless steel cover 2 holes		<input type="checkbox"/>	<input type="checkbox"/>
JDG508	Stainless steel cover 4 holes		<input type="checkbox"/>	<input type="checkbox"/>
JDG509	Stainless steel cover 6 holes		<input type="checkbox"/>	<input type="checkbox"/>
JDG516	Support-frame bath 5 litres		<input type="checkbox"/>	<input type="checkbox"/>
JDG517	Support-frame bath 12 litres		<input type="checkbox"/>	<input type="checkbox"/>
JDG518	Support-frame bath 20 litres		<input type="checkbox"/>	<input type="checkbox"/>
JDG519	Support-frame bath 45 litres		<input type="checkbox"/>	<input type="checkbox"/>
JDG520	Rack for 36 tubes 13 mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG521	Rack for 24 tubes 16 mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG522	Rack for 24 tubes 20 mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG524	Stainless steel cover 12 holes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG531	Fixed level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG532	Thermometer support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
JDG533	Constant level for bath 15 cm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Code	Description	For models
JDG504	Gable cover	Unitronic reciprocating
JDG510	Cover with handle	Baher
JDG511	Perforated shelf	Precisbat
JDG512	Perforated shelf	Termobat
JDG514	Perforated shelf	Aquaterm
JDG523	Reducing discs set with cover	Aquaterm
JDG525	Reducing discs	Termobat
JDG529	Platform for erlenmeyer flasks	Unitronic reciprocating
JDG534	Constant level for bath 20 cm	Immersion thermostats



▶ JDG - Water/Oil baths, accessories

▶ Circulation pump "Ciragit"



1| The unit can be adjusted to fit most tanks or baths, can be submerged and held in position by an adjustable height support clamp.

Code	JDG527
OUTPUT water	20 °C , 12 l/ min.- 150 mbar
OUTPUT silicon oil	50 °C 4 l/min.- 130 mbar
Dimensions	9,5 x 12,5 x 23 cm
Power	30 W
Weight	2.5 Kg.



▶ Refrigerated cooling coils for baths "Frigedor" and "Frigedor-Reg"



1| The unit is bench mountable and contains within the epoxy coated case a CFC free hermetically sealed compressor with condenser and evaporator, the cooling coil is made of AISI 304 stainless steel.

Code	JDG528	JDG530
Temp range	Fix -20 °C	-20°C to +20 °C
Stability	-	±1.5 °C
Dimensions		
Exterior	41x21x34 cm	41x21x34 cm
Cooling potential	to -20 °C = 50 W	to -20 °C = 50 W
Power	285 W	285 W
Weight	14 Kg	14 Kg



▶ JDL - Circulation, accessories

Code	Description	Model
JDL501	Support-frame thermostat baths	Digit-cool
JDL502	Constant level for cuvettes 20 cm	Digiterm S-150 and TFT-200

▶ JDN - Immersion thermostats

Code	Description	Model
JDN503	Cooling immer.unit	Digit-cool
JDN504	Thermostat inmers	Digiterm S-150
JDN505	Thermostat inmers	Digiterm TFT-200

▶ Recirculation thermostat "Ultraterm-TFT-200"



1| Maximum working volume to maintain maximum temperature: 8 litres.
 AISI 304 stainless steel top and lid with an inner tank of AISI 304 stainless steel.
 2| Complete with a pump for internal and external liquid circulation with inlet and outlet connectors.

Code	JDN506
Temp range	Fix -20 °C
Stability	-
Dimensions	
Exterior	41x21x34 cm
Cooling potential	to -20 °C = 50 W
Power	285 W
Weight	14 Kg





JDN - Immersion thermostats

▶ Frigiterm-TFT-10" and "Frigiterm-TFT-30"



- 1 | Maximum working volume to maintain maximum temperature: 8 litres.
- 2 | AISI 304 stainless steel top and lid with an inner tank of AISI 304 stainless steel.
- 3 | Complete with a pump for internal and external liquid circulation with inlet and outlet connectors.

Code	JDN507	JDN508
Model	Frigiterm 10	Frigiterm 30
Capacity	8 L	8 L
Control range	-10°C + 100 °C	-30 °C + 100 °C
Dimensions		
Usable	12x20x14 cm	12x20x14 cm
Exterior	36x66x44 cm	36x66x44 cm
Pump		
Pressure	150 mbar	150 mbar
Flowrate	12 l/min	12 l/min
Power	1150 W	1460 W
Compressor power	1/8 HP	3/8 HP
Weight	28 Kg	30 Kg

▶ "Termotronic-100"



- 1 | Maximum working volume to maintain maximum temperature: 20 litres.
- 2 | A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used. Minimum fixing depth to the tank: 14 cm.

Code	JDN509
Temp range	Amb +5 to 100 °C
Stability	±0,1 °C
Dimensions	28x18x19 cm
Pump	150 mbar-12 l/min.
Power	2000 W
Weight	3,9 Kg

JDQ - Immersion thermostats, accessories

▶ Methacrylate bath



- 1 | Maximum working volume to maintain maximum temperature: 20 litres.
- 2 | A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used. Minimum fixing depth to the tank: 14 cm.

Code	Capacity	Dimensions	Thickness
JDQ501	8 L	15x18x31cm	6 mm
JDQ502	13 L	15x23x40cm	8 mm
JDQ503	30 L	20x30x50cm	8 mm
JDQ505	9,5 L	14,5x16,5x39	6 mm

▶ Methacrylate bath



- 1 | Designed for the "Termotronic" immersion thermostat

Code	Capacity	Temp max	Dimensions	Rack cap	Weight
JDQ504	8 L	60 °C	10x20x38cm	4	2 Kg



▶ JDQ - Immersion thermostats, accessories

▶ Stainless steel baths.



1 | Double skinned with an AISI 304 stainless steel exterior and internal bath of AISI 304 stainless steel.

Code	Capacity	Dim. usable	Dim exterior	Weight
JDQ506	9 L	15x29x22cm	20x34x28cm	3.5 Kg
JDQ507	12 L	15x30x31cm	20x37x35cm	4,3 Kg
JDQ508	20 L	15x48x30cm	20x55x35cm	6,6 Kg
JDQ509	27 L	20x48x30cm	25x55x35cm	7,6 Kg
JDQ513	45 L	15x62x50cm	23x70x56cm	11 Kg



▶ Stainless steel baths.



1 | Thermally insulated. Ideal for low temperatures. Suitable for J.P. Selecta refrigerated units.

2 | Similar to our other bath but with additional internal expanded foam insulation that prevents external condensation or heat loss, working temperature range from -40°C to +90°C.

Code	Capacity	Dim. usable	Dim exterior	Weight
JDQ510	9 L	15x29x22cm	24x40x34cm	6 Kg
JDQ511	12 L	15x48x30cm	24x61x41cm	9 Kg
JDQ512	20 L	20x48x30cm	29x61x41cm	11 Kg



▶ JDS - Thermoblocks

▶ Mini 'T'



1 | Designed in compact size. Simultaneous view of actual and programmed time and temperature on the LCD screen.

3 | Various aluminum blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 50 mL) and other types of containers. See table below and JVD section

Code	JDS001
Temperature range	Ambient at 80°C
Temp. accuracy control	0,5°C
Screen resolution	0,1°C
Heating time (20° to T ^a max.)	<12 min
Timer	0-999 seg o 0-999 min
Approx. dimensions	110 x 150 x 80 mm
Weight	0,5 Kg



Accesorios - bloques metálicos baño mini 'T' - NOT included with the equipment



Bloc
Code JDV001



Bloc
Code JDV002



Bloc
Code JDV003_4



Bloc
Code JDV005



Bloc
Code JDV006



Bloc
Code JDV007

Code	Capacity
JDV001	40 tubes of 0,2 mL
JDV002	24 tubes of 0,5 mL
JDV003	15 tubes of 1,5 mL

Code	Capacity
JDV004	15 tubes of 2 mL
JDV005	8 cells of 12,5x12,5 mm
JDV006	4 tubes of 15 mL
JDV007	2 tubes of 50 mL

JDS - Thermoblocks

Model 603/3



- 1| Simultaneous view of actual and programmed time and temperature on the LED display.
- 2| Various blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 1.5 mL). See table below and JVD section

Code	JDS002
Temperature range	Ambient at 100°C
Temp. accuracy control	±0,5°C
Screen resolution	0,1°C
Heating time (20° to T ^a max.)	<25 min
Timer	1 min – 99h 59min
Approx. dimensions	225 x 160 x 197 mm
Weight	3 Kg

Accessories - metal bath blocks model 603/3 - NOT included with the equipment



Bloc
Code JDV012



Bloc
Code JDV013



Bloc
Code JDV014



Bloc
Code JDV015



Bloc
Code JDV016

Code	Capacity
JDV012	96 tubes of 0,2 mL
JDV013	29 tubes of 0,5 mL, 32 tubes of 1,5 mL
JDV014	61 tubes of 0,5 mL
JDV015	41 tubes of 1,5 mL
JDV016	28 tubes of 12 mm Ø

Model 603/10 and 603/20



- 1| Simultaneous view of actual and programmed time and temperature on the LCD screen.
- 2| Several blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 2 mL). See table below and JVD section

Code	JDS003	JDS004
Temperature range	Ambient - 100°C	-10°C - 100°C
Temp accuracy	± 0,5 °C	± 0,5 °C
Screen resolution	0,1 °C	0,1 °C
Heating time (from 20°C to 100°C)	<12 min	<20 min
Cooling time (from 20°C to -10°C)	-	<30 min
Timer	1 min – 99h 59min	
Approx. dimensions	300 x 210 x 180 mm	
Weight	2,5 Kg	4,6 Kg

Accessories - metal bath blocks model 603/10 and 603/20 - NOT included with the equipment



Bloc
Code JDV008 a JDV011

Code	Capacity
JDV008	96 microtubes of 0,2 mL
JDV009	54 microtubes of 0,5 mL
JDV010	35 microtubes of 1,5 mL
JDV011	35 microtubes of 2 mL



JDS - Thermoblocks

Thermoshaker, model 603/100



- 1| Simultaneous display of time, temperature and actual and programmed speed on the LCD screen.
- 2| You can heat and shake simultaneously or operate independently
- 3| Several blocks (not included) available to cover a wide range of tubes (from 0.2 mL to 2 mL).

Code	JDS005
Temperature range	Ambient - 100°C
Temp. accuracy control	±0,5°C
Screen resolution	0,1°C
Heating time (from 20°C to 100°C)	<20 min
Stirring speed	200-1500 rpm
Shaking Orbit	2 mm
Timer	1 min – 99h 59min
Approx. dimensions	354 x 240 x 170 mm
Weight	8,5 Kg



Accessories - metal bath blocks model 603/100 - NOT included with the equipment



Bloc

Code JDV008 a JDV011

Code	Capacity
JDV008	96 microtubes of 0,2 mL
JDV009	54 microtubes of 0,5 mL
JDV010	35 microtubes of 1,5 mL
JDV011	35 microtubes of 2 mL

Metallic thermostat dry block "BIO-BATH"



- 1| Small size with a fixed temperature of 37 °C with check thermometer, 8 tube positions for 75x13 VAC tubes.

Code	JDS501
Dimensions	8.8x9.6x7 cm
Stability	0,5°C
Power	8 W
Weight	0,5 Kg



Metallic thermostat dry block "Clinic-Bloc"



- 1| Fixed temperature of 37 °C with check thermometer.

Code	JDS502	JDS503
Model	Clinic bloc	Clinic bloc 1537
Dimensions	11x18x28 cm	11x18x28 cm
Stability	±0.5	±0.5
Power	10 W	10 W
Weight	2,4 Kg	2,4 Kg



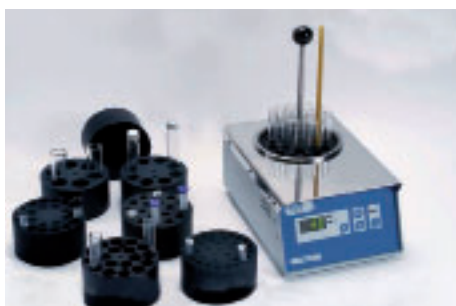
CODE: JDS502

CODE: JDS503



JDS - Thermoblocks

► Dry block heater for tubes "Tembloc"



1 | Supplied complete with thermometer 0-200 °C and extraction tool for blocks.

Code	JDS504
Temperature	30 - 200 °C
Homogeneity	±0.75 °C
Stability	±1.5%
Set error	±2 %
Resolution	1°C
Dimensions	11x19x29 cm
Power	350 W
Weight	3,7 Kg

► Dry Block heater for tubes "Multiplaces"



1 | Supplied complete with thermometer 0-200 °C and extraction tool for blocks.

Code	JDS505
Temperature	30 - 200 °C
Homogeneity	±0.75 °C
Stability	±1.5%
Set error	±2 %
Resolution	1°C
Dimensions	11x31x31 cm
Power	700 W
Weight	7,4 Kg

Accessories - Multiplaces - NOT included with the equipment



Bloc
Code JDV508 to JDV514

Code	Capacity
JDV508	Metal block 6 tubes 25 mm
JDV509	Block for 15 cuvettes 10x10
JDV510	Block for 96 microplates
JDV511	Metal block 20 Eppendorf tubes
JDV512	Metal block 20 tubes 12 mm
JDV513	Metal block 12 tubes 16 mm
JDV514	Metal block 8 tubes 20 mm

► Metallic dry block thermo shaker "TR100-G"



1 | With electronic control and digital display of temperature, shaking speed and time.
2 | For adjustable temperature from ambient +5 °c. up to 100 °c.



Code	JDS506
Temperature	Ambient +5 to 100
Stability	±0,5 °C
Block homogeneity	±0,5 °C
Dimensions	18x21x30 cm
Power	88 W
Weight	9,5 Kg

Accessories - TR100-G - NOT included with the equipment



Bloc
Code JDV501 to JDV507

Code	Capacity
JDV501	Block 12 tubes 15ml
JDV502	Block 6 tubes 50ml
JDV503	Block 96 microtubes 0,2ml
JDV504	Block 54 microtubes 0,5ml
JDV505	Block 15x0,5ml+20x1,5ml
JDV506	Block 35 x 1,5ml
JDV507	Block 35 microtubes 2ml



JDS - Thermoblocks

Thermo shaker "TRM-4" for Microtiter plates



1| With electronic control and digital display of temperature, shaking speed and time. For temperatures from ambient +5 °c. to 60 °c. stability $\pm 0,5$ °c.

Code	JDS508
Temperature	ambient +5 to 60
Block homogeneity	$\pm 0,5$ °C
Stability	$\pm 0,5$ °C
Platform dimensions	21,5x30 cm
Dimensions	18x40x39 cm
Power	132 W
Weight	9,5 Kg



JGB - Mantles with stirring

Heating mantle, series 656



- 1| Outdoor furniture made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements.
- 2| Maximum stirring speed: 1400 rpm. Maximum temperature: 380°C.
- 3| Supplied with stirring rod, support and magnet.

Code	Capacity	Ø intern	Depth
JGB001	100 mL	70 mm	45 mm
JGB002	250 mL	90 mm	55 mm
JGB003	500 mL	105 mm	60 mm
JGB004	1000 mL	140 mm	85 mm



Digital heating mantle, series 658



- 1| Outdoor furniture made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements.
- 2| Analogical regulation of the speed by means of potentiometer and digital regulation of the temperature with LED display.
- 3| Maximum stirring speed: 1400 rpm. Maximum temperature: 380°C.
- 4| Supplied with stirring rod, support and magnet and Pt100 temperature probe.

Code	Capacity	Ø intern	Depth
JGB005	250 mL	90 mm	55 mm
JGB006	500 mL	105 mm	60 mm
JGB007	1000 mL	140 mm	85 mm
JGB008	2000 mL	180 mm	105 mm



Analogical, series 655



- 1| Outdoor furniture made of painted steel and interior thermal insulation by mineral fiber wool, they have chromonickel heating elements.
- 2| It has a device for holding rods. Maximum temperature: 370°C.

Code	Capacity	Ø intern	Depth
JGD001	50 mL	55 mm	40 mm
JGD002	100 mL	70 mm	45 mm
JGD003	250 mL	90 mm	55 mm
JGD004	500 mL	105 mm	60 mm
JGD005	1000 mL	140 mm	85 mm
JGD006	2000 mL	180 mm	105 mm
JGD007	3000 mL	210 mm	115 mm
JGD008	5000 mL	240 mm	140 mm



▶ JGD - Mantles without stirring

▶ “Fibroman-C”



- 1| DUR ALLOY aluminium exterior case with epoxy coating.
- 2| Suspended mineral wool woven heating mantle.
- 3| Heating element homogeneously distributed throughout the woven mantle.
- 4| Thermally insulated case, mineral wool fibre insulation.

Code	Flask capacity	Flask Ø approx.	Ø / Height	Power	Weight
JGD501	100 mL	65 mm	16x11 cm	130 W	1 Kg
JGD502	250 mL	83 mm	18x11 cm	130 W	1,1 Kg
JGD503	500 mL	102 mm	20x12 cm	270 W	1,2 Kg
JGD506	1000 mL	132 mm	22x13,5 cm	410 W	1,4 Kg
JGD507	2000 mL	170 mm	26x14 cm	530 W	2 Kg
JGD508	3000 mL	190 mm	29x18 cm	620 W	2,2 Kg
JGD509	5000 mL	222 mm	33x19 cm	840 W	3,2 Kg
JGD520	10000 mL	290 mm	38x22 cm	2250 W	4,7 Kg
JGD521	20000 mL	365 mm	48x26 cm	2300 W	11 Kg

▶ “Fibroman-D”



- 1| Soft mantle made with a double woven mineral wool.
- 2| A mains switch and safety earth are also fitted.
- 3| The mantle can be supported by a retort ring or tripod stand.

Part No.	Flask capacity	Ø / Height	Power	Weight
JGD504	250 mL	15x6.5 cm	130 W	0.8 Kg
JGD505	500 mL	17x7 cm	270 W	0.9 Kg
JGD515	1000 mL	20x8.5 cm	410 W	1 Kg
JGD516	2000 mL	24x11 cm	530 W	1.5 Kg

▶ “Fibroman HT-W”



- 1| For adjustable temperatures from ambient +5 °c to 400 °c.
- 2| Stability ±0,5 to 1 °c according to temperature.

Code	Cap. mL	Ø Flask cm	Dimensions cm	Sensor Ø Leng mm	Stability °C	Power W	Weight Kg
JGD510	100	65 to 67	13x22x26	4x170	±0.5 to 1	130	1,5
JGD511	250	83 to 87	13x26x29	4x170	±0.5 to 1	216	3
JGD512	500	102 to 105	13x26x29	4x170	±0.5 to 1	220	3,5
JGD513	1000	132 to 139	14x30x33	4x170	±0.5 to 1	500	4
JGD514	2000	164 to 170	16x31x34	4x200	±0.5 to 1	760	5

▶ “Fibroman-0”



- 1| Suitable for round bottom flasks, decanting funnels and reaction flasks with a bottom drain.

Code	Flask cap.	Ø /Height	Ø hole	Tripod	Power	Weight
JGD517	1000 mL	24x10.5 cm	8 cm	34 cm	410 W	1.5 Kg
JGD518	2000 mL	28.5x12 cm	8 cm	36 cm	530 W	2.5 Kg
JGD519	5000 mL	37.5x17.5 cm	9 cm	38 cm	840 W	3.5 Kg
JGD522	10000 mL	43.5x20 cm	9 cm	43 cm	1400 W	5 Kg
JGD523	20000 mL	48x25 cm	12 cm	36 cm	2300 W	13 Kg

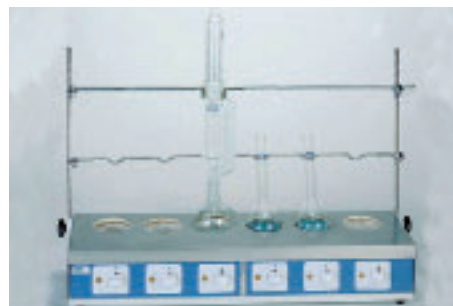


JGD - Mantles without stirring

Banks of heating mantles for digestion,



- 1| Independent heating control for each position.
- 2| 2 height and angle adjustable bars to support condensers or other glassware for digestion or extraction.



Code	For flask	Flask vol	Places	Dimensions	Power	Weight
JGD524	Kjeldahl / Soxhlet	300-500 mL	4	18x76x25 cm	1500 W	12Kg
JGD525	Kjeldahl / Soxhlet	300-500 mL	6	18x105x25 cm	2200 W	16Kg
JGD526	Micro-Kjeldahl	100 mL	4	16x59x21 cm	510 W	9Kg
JGD527	Micro-Kjeldahl	100 mL	6	16x81x21 cm	900 W	12Kg

JGG - Mantles, accessories

Accessories for Fibroman-D



Retort	Tripod Ring	For mantle
JGG505	JGG501	JGD504
JGG506	JGG502	JGD505
JGG507	JGG503	JGD515
JGG508	JGG504	JGD516

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JGJ - Hot plates

Round Hotplates



- 1| Cast steel plate with embedded heating elements throughout the plate surface.
- 2| Fast heating rate at maximum power setting.
- 3| Enamelled outer casing that is resistant to high temperatures and corrosive agents.



Code	JGJ501	JGJ502	JGJ503	JGJ516*
Plate Ø	12 cm	15 cm	19 cm	15 cm
Dimensions	8x20x20 cm	8x22x22 cm	8x26x26 cm	8x22x22 cm
Power	800 W	1600 W	2100 W	1600 W
Weight	2,1 Kg	3 Kg	4,5 Kg	3 Kg

* UK plug

Hotplate double circular "Duplac"



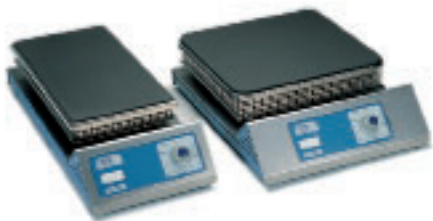
- 1| Hot plate with non warping cast steel plate with embedded heating elements throughout the hot plate surface.
- 2| Independent plate temperature control is maintained by pulsed energy controllers.

Code	JGJ505
Plate Ø	19 cm
Dimensions	15x47x24 cm
Power	1750 W
Weight	8,5 Kg



JGJ - Hot plates

Hotplate-Rectangular "Combiplac"



- 1 | Electronic energy temperature control.
- 2 | The non warping steel hotplate has heating elements embedded throughout the hotplate surface maintaining the heat distribution.

Code	JGJ506	JGJ507
Plate	20x40 cm	30x30 cm
Dimensions	12x22x55 cm	13x33x46 cm
Power	2300 W	2800 W
Weight	9 Kg	13 Kg

Hotplate-Circular "Combiplac"



- 1 | Electronic energy controller and embedded heating element throughout the non warping steel hotplate surface.
- 2 | A retort bar can be located in a hole at the back of the unit.

Code	JGJ508	JGJ509
Plate Ø	12 cm	30x30 cm
Dimensions	10x16x27 cm	13x21x30 cm
Power	550 W	950 W
Weight	2 Kg	3 Kg

Rectangular precision hotplate "Plactronic"



- 1 | Electronic energy controller and embedded heating element throughout the non warping steel hotplate surface.
- 2 | A retort bar can be located in a hole at the back of the unit.

Code	JGJ510	JGJ511	JGJ512
Plate	24x24 cm	20x40 cm	25x60 cm
Dimensions	13x25x42 cm	13x22x57 cm	13x27x77
Power	700 W	800 W	1000 W
Weight	7.5 Kg	8 Kg	16.5

Rectangular hotplate "Placfin"



- 1 | Temperature control by a hydraulic thermostat.
- 2 | Protected thermometer from 0 °C to 130 °C.
- 3 | Hotplate surface protected by chemically treated aluminium, with heating elements distributed throughout the hotplate's surface.

Code	JGJ513
Plate	23x22 cm
Dimensions	11x22x30 cm
Power	1500 W
Weight	3,7 Kg



JGJ - Hot plates

Bank of circular hotplates "Uniplac"



- 1| Independent hotplate control using pulsed energy regulators.
- 2| Cast steel hotplates with embedded heating elements distributed throughout the hotplate's surface.
- 3| Adjustable height and angle stand bars for supporting condensers and other glassware etc.

Code	JGJ514	JGJ515
No Places	4	6
Plate Ø	12 cm	12 cm
Dimensions	23 77 27 cm	23 105 27 cm
Power	2200 W	3300 W
Weight	15 Kg	22 Kg



JGL - Hotplates, accessories

Code	Description	Model			
		UNIPLAC	RECT COMBIPLAC	CIR COMBIPLAC	PLACFIN
JGL501	Adapter for flasks 500-800 ml	<input type="checkbox"/>		<input type="checkbox"/>	
JGL502	Adapter for flasks 50-250 ml	<input type="checkbox"/>		<input type="checkbox"/>	
JGL503	Fume (2) tube support	<input type="checkbox"/>			
JGL505	Sand bath attachment 40x20 cms		<input type="checkbox"/>	<input type="checkbox"/>	
JGL506	Sand bath attachment 30x30 cms		<input type="checkbox"/>	<input type="checkbox"/>	
JGL507	Rod support 4 units	<input type="checkbox"/>			
JGL508	Rod support 6 units	<input type="checkbox"/>			
JGL509	Adapter for slides				<input type="checkbox"/>
JGL510	Container s.steel 140 mm.	<input type="checkbox"/>		<input type="checkbox"/>	

JJB - Refrigerated cabinets

Refrigerated medical cabinet "Pharmalow"



- 1| Independent hotplate control using pulsed energy regulators.
- 2| Cast steel hotplates with embedded heating elements distributed throughout the hotplate's surface.

Code	JJB504	JJB505
Models	S	L
Capacity	236 L	352 L
Dimensions		
Interior	106x47x44 cm	145x47x44 cm
Exterior	125x60x61 cm	164x60x61 cm
N° Shelves	4	4
Power	170 W	180 W
Weight	47 Kg	56 Kg



Accessories - Pharmalow - NOT included with the equipment



Bloc
Code JJD501



Bloc
Code JJD502



Bloc
Code JJD503

Code	Description
JJD501	Frame support for pharmalow s
JJD502	Frame support for pharmalow l
JJD503	Drawer with 3 compartments

JJB - Refrigerated cabinets

► “Pharmalow” M



1 | Digital electronic temperature control from +2 to +8

Code	JJB511
Models	M
Capacity	330 L
Dimensions	
Interior	145x54x47 cm
Exterior	184,5x62x60 cm
N° Shelves	6
Power	575 W
HP Power	1/4 HP
Weight	113 Kg

Accessories - Pharmalow M - NOT included with the equipment



Bloc
Code JJD504



Bloc
Code JJD505



Bloc
Code JJD507

Code	Description
JJD504	Shelf guides(4)hotcold c-uc-gl
JJD505	Shelf hotcold c-uc-gl
JJD507	Graphic register pharmalow

► “Blood Bank”



CODE: JJB513

CODE: JJB514

1 | Forced air circulation. Fixed temperature +4 °C. Stability ±1.5 °C. Resolution 1 °C.

Code	JJB513	JJB514
Models	C	D
Capacity	560 L	1240 L
Bag capacity	200	480
Dimensions		
Interior	153x54x66 cm	153x124x68 cm
Exterior	153x54x66 cm	213x139x79 cm
HP power	3/8 HP	5/8 HP
Power	497 W	1034 W
Shelves	4	4
Weight	165 Kg	212 Kg



▶ JJB - Refrigerated cabinets

▶ “Blood Bank”



- 1| Exclusive design adapted to accommodate platelet bags stirrers “APL”.
- 2| Forced air circulation.
- 3| Fixed temperature at +20 °c. stability $\pm 1,5$ °c. resolution 1 °c.

Code	JJB515
Models	E
Capacity	560 L
Stirrers capacity	2 x APL-54
Dimensions	
Interior	153x54x66 cm
Exterior	213x80x79 cm
HP power	3/8 HP
Power	497 W
Shelves	4
Weight	165 Kg



▶ Shaking monitor for blood collection “HEDO2”



- 1| HEDO2 is a digital blood collection monitor, created to control and monitoring blood collection processes.
- 2| It has been designed to perform simple, precise and accurate operations.

Code	JJB519
Max capacity	999 g
Precision	± 3 g
Resolution	1 g
Dimensions	19x32x32 cm
Power	60 W
Weight	5 Kg



▶ Chest Freezers “Combatemp”



- 1| Epoxy covered external case.
- 2| Interior of aluminium, with guide supports for baskets or trays..

Code	JJG501	JJG502	JJG503	JJG504
Models	S-30	L-30	S-40	L-40
Capacity	206 L	343 L	215 L	352 L
Freezing cap.	28 Kg	38 Kg	30 Kg	40 Kg
Temperature	-28 °C	-28 °C	-40 °C	-40 °C
Dimensions				
Interior	74x63x53cm	74x100x53cm	63x89x41cm	65x117x50cm
Exterior	92x75x71cm	92x113x71cm	92x113x76cm	92x137x81cm
Power	160 W	200 W	230W	400W
Weight	38 Kg	56 Kg	57 Kg	72 Kg



JJG - Freezers

► “Templow”



CODE: JJG505

CODE: JJG507

- 1 | External case covered in epoxy.
- 2 | Stainless steel internal easy for cleaning, with also stainless steel wire basket.

Code	JJG505	JJG506	JJG507
Model	S	M	L
Capacity	257 L	513 L	600 L
Range	28 Kg	38 Kg	30 Kg
Dimensions	-15 to -32°C	-14 to -25°C	-10 to -35°C
Interior	151x44x42cm	151x61x56cm	155x51x65cm
Exterior	184x60x63cm	186x75x75cm	215x70x83cm
Power	110 W	345 W	600W
Weight	81 Kg	109 Kg	130 Kg

► Arcones Congeladores -85 °C



CODE: JJG508

CODE: JJG509

- 1 | Low power cabinets and sound level below 50 dB.

Code	JJG508	JJG509
Models	LAB-11	LAB-51
Capacity	130 L	416 L
Height*/**	920* / 1620** mm	920* / 1620** mm
Width	720 mm	1700 mm
Depth***	730 mm	730 mm
Thickness	100 mm	100 mm
Power	480 W	810 W
Weight	53 Kg	95 Kg

Height* = including the 50 mm wheels / Height** = with the door open

Depth*** = including handle and hinges

JZB - Heating elements

► Flexible heating cord



- 1 | For tape surface temperatures up to 180 °C. Thermally insulated using flexible silicon tube.

Code	Length	Ø Cord	Power
JZB501	1,5 m	3 mm	45 W
JZB502	3 m	3 mm	90 W
JZB503	6 m	3 mm	180 W
JZB504	12 m	3 mm	360 W

► Heating tapes



- 1 | Heating elements distributed homogeneously between flexible moulded sheets of silicon.

Code	Length	Width	Power
JZB505	0,80 m	25 mm	180 W
JZB506	1 m	25 mm	210 W
JZB507	1,5 m	25 mm	265 W



JZB - Heating elements

▶ Large surface area heating mats



1 | Heating elements distributed homogeneously between flexible moulded sheets of silicon.

Code	JZB508
Heating	0.39 W cm ² .
Mat temp	210 °C
Suitable for	Heating drums up to 200 litres Ø 60 cm
Total	3 bands of 171 cm in length x 15 cm wide
Power	3000 W



▶ Container Stainless steel



1 | AISI 304, adaptable to "Selectemp" plate 200 Ø and 115 mm high, with reduction discs

Code	Description
JZB509	Useful for water, oil or sand baths.



▶ Water recirculators "Interheater"



1 | Water circulation unit, designed to feed closed water loop circuits for condensers, distillation columns, reactor jackets, viscometers, electrophoresis baths etc. designed specifically for:

- Constant temperature.
- Constant pump rate of refrigerated fluid.
- Closed loop circuit, avoids the build up of scale in cooling coils, and cooling circuits.

Code	JZB510
Dimensions	70x43x56 cm
Reg. Range	Amb + 5 to 90 °C
Power	4100 W
Weight	22 Kg



JZD - Ice machines

▶ Freezing container



1 | For sample freezing with liquefy gas (liquid nitrogen), liquids and solutions. Spherical inside. Exterior made of AISI304 stainless steel. Double body with thermal isolated PRTFE joint. Hit-resistant

Code	JZD504
External measures	14 high x 24cm wide
Capacity	1.5 L
Weight	2,9 Kg



JZD - Ice machines

▶ Cooling bath "Refricub"



- 1| Suitable for maintaining paraffin wax and waxes in a solid form for long periods of time, etc.
- 2| Temperature homogeneity: ± 2 °C. Precision of temperature controller: 1 °C.
- 3| External case made of epoxy covered metal with AISI 304 stainless steel tank and top. An anti vibration hermetically sealed CFC free compressor is mounted in the base of the unit, supplied with ventilated evaporator, regulating valve and condenser.

Code	JZD505
Capacity	18 L
Dimensions	
Tank	20x30x31 cm
Exterior	80x46x44 cm
Power	350W
HP Power	3/8 HP
Weight	22 Kg

▶ Flake ice maker "COM-50"



- 1| For preservation and storage of analytic samples, biological tissues, cellular cultures and other applications that require maintenance of the temperature below ambient.

Code	JZD506
Production	58 Kg
Capacity	20 Kg
Dimensions	79x47x60 cm
Power	470W
Weight	58 Kg



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[K]
MEASURING
INSTRUMENTS



NAHITA-BLUE BALANCES ICONS



AUTOMATIC INTERNAL ADJUSTMENT:
Adjustment through internal calibration weight driven by motor.



ADJUSTING PROGRAM CAL:
An external adjustment weight is required



DATA INTERFACE RS-232:
To connect the machine to a printer, computer, or network.



USB:
To connect the equipment to a printer, computer, or other peripheral device.



PIECE COUNTING:
Selectable number of references. Switching from unit display to weight display.



PERCENTAGE DETERMINATION:
Determinación de la desviación en % del valor teórico (100%)



WEIGHTING UNITS:
By pressing the unit key.



UNDER WEIGHTING:
Through a hook on the bottom of the scale.



POWER SUPPLY BY ACCUMULATOR



POWER SUPPLY BY BATTERIES:
For batteries operation, the battery type is indicated on each device.



CURRENT ADAPTER
110/220 V as standard in the EU.



POWER CABLE:
Integrated into the EU standard 230 V/50 Hz balance.



STRAIN GAUGES



ELECTROMAGNETIC FORCE COMPENSATION:
Coil on a permanent magnet, for the most accurate weighing



KBB - Electronical, precision 1 - 0.1 g

► Series 5041



- 1| Very affordable, ideal for home use and teaching.
- 2| ABS plastic housing and easy to read digital display.
- 3| Hermetic splash-proof keyboard.
- 4| Automatic calibration with external weight (not included)

Code	KBB001	KBB002	KBB003*
Capacity (g)	500	2000	5000
Readability (g)	0.1	1.0	2
Accuracy (g)	± 0,1	± 0,1	± 0,1
Pan size (mm)		Ø 148	
Weighting units		g, oz	
Dimensions (mm)		170x250x45	
Power	Adapter AC220V / 4 battery 1.5V (AA)		

*Battery and adapter not included (adapter not available)

▶ KBB - Electronical, precision 1 - 0.1 g

▶ Series 5161



- 1| High-precision load sensor.
- 2| Large and easy to read display with backlit LCD.
- 3| Plastic housing and stainless steel plate. Polyethylene cover.
- 4| Weighing and counting functions.
- 5| Automatic calibration by external weight (see table), weight only included in the KBB004 model
- 6| With integrated rechargeable battery.

balances icons - series 5161



Code	KBB004	KBB005	KBB006	KBB007
Max capacity. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,1	± 0,1	± 0,1	± 0,1
Pan size (mm)	143x192			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tIJ, mo			
Calibration weight(kg)	dwt, oz, lb, tIT, ozt, tIH, %			
	0.5	1	2	2
	(Included)	(Not included)	(Not included)	(Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			



▶ Series 5171



- 1| High-precision load sensor and overload protection
- 2| Large, easy to read backlit LCD display
- 3| Plastic housing and stainless steel plate.
- 4| Weighing, parts counting and hook functions for bottom weighing.
- 5| Automatic calibration by external weight, weight included only in ref. KBB008

balances icons - series 5171



Code	KBB008	KBB009	KBB010	KBB011
Capacity máx. (g)	1000	2000	3000	5000
Readability (g)	0.1	0.1	0.1	0.1
Accuracy (g)	± 0,1	± 0,1	± 0,1	± 0,1
Pan size (mm)	Ø 135	Ø 135	155x143	155x143
Weighting units	g, oz, ct, lb			
Calibration weight(kg)	0.5	1	2	2.5
	(Included)	(Not included)	(Not included)	(Not included)
Dimensions (mm)	265x200x80			
Power	AC110-220V / 4 battery 1.5V (AA) (Not included)			



CODE- KBB008 - KBB009



CODE- KBB010 - KBB011

▶ KBB - Electronical, precision 1 - 0.1 g

▶ Series LED-5161



balances icons - series 5161-LED



Code	KBB012	KBB013
Max capacity. (g)	10000	20000
Readability (g)	0.1	
Repetitibilidad	± 0,1 g	
Non-linearity	± 0,2 g	
Pan size (mm)	337x237 mm	
Weighting units	gr, kg, lb	
Dimensions (mm)	370x370x125 mm	
Power	100-240V, 50-60 Hz / 4V4AH/20HR	

▶ Digital balance



- 1| Simple and affordable scales for home and school use.
- 2| They have a 170 mm PE weighing pan and 900 mL capacity.



Code	KBB017	KBB018
Capacity (g)	500	1000
Readability (g)	0.1	0.1
Accuracy (g)	±0.2	±0.2
Pan size (mm)	Ø 110	
Weighting units	g, oz	
Dimensions (mm)	160x127x35	

*Battery and adapter not included (adapter not available)

▶ KBC - Electronical, precision 0.01 g

▶ Series5162



balances icons - series 5162



Code	KBC001	KBC002	KBC003	KBC004
Max capacity. (g)	300	500	1000	2000
Readability (g)	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	120x155			
Weighting units	g, kg, ct, T, TAR, dr, PKT, GN, TMR, gsm, tLJ mo, dwt, oz, lb, tIT, ozt, tIH, %			
Calibration weight(kg)	0.2	0.5	0.5	1
	(Included)	(Included)	(Included)	(Not included)
Dimensions (mm)	280x180x80			
Power	110-220VAC, 50/60Hz			

KBC - Electronical, precision 0.01 g

Series5172



- 1 | High-precision load sensor and overload protection
- 2 | Large, easy to read backlit LCD display
- 3 | Plastic housing and stainless steel plate.
- 4 | Weighing, parts counting and hook functions for bottom weighing.
- 5 | Automatic calibration by external weight, weight included except for references KBC008 and KBC009.

balances icons - series 5172



Code	KBC005	KBC006	KBC007	KBC008	KBC009
Max capacity. (g)	300	500	1000	3000	5000
Readability (g)	0.01	0.01	0.01	0.01	0.01
Accuracy (g)	± 0,01	± 0,01	± 0,01	± 0,01	± 0,01
Pan size (mm)	Ø135	Ø135	Ø135	155x143	155x143
Weighting units	g, oz, ct, lb				
Calibration weight(kg)	0.2 (Incl.)	0.5 (Incl.)	0.5 (Incl.)	2 (No incl.)	3 (No incl.)
Dimensions (mm)	265x200x80				
Power	110-220VAC / 4 battery 1.5V (AA) (Not included)				



CODE- KBC005 - KBC006 - KBC007



CODE- KBC008 - KBC009

KBD - Electronical, precision 0.001 g

Series5133



- 1 | Electromagnetic force compensation technology.
- 2 | Adjustment of the sensitivity level and weighing speed. Overload protection.
- 3 | Large, easy-to-read backlit LCD display.
- 4 | Aluminium housing and stainless steel plate.
- 5 | Weighing, parts counting, percentage and hook functions for lower weighing.
- 6 | Automatic calibration by external weight (included). RS232 and USB outputs.

balances icons - series 5133



Code	KBD001	KBD002	KBD003
Accuracy Class	Class II	Class II	Class I
Max capacity. (g)	100	300	500
Min capacity (g)	0.020	0.020	0.020
Readability (g)	0.001	0.001	0.001
Valor verificación escala (g)	0.01		
Repeatability (g)	±0.001		
±0.5e	0 ≤ m ≤ 5000		
±1.0e	5000 ≤ m ≤ 20000		
±1.5e	20000 < m		
Stabilization time (s)	≤5		
Pan size (mm)	Ø 90		
Weighting units	g, mg, ct, oz		
Calibration weight(kg)	0.1 (incl.)	0.2 (incl.)	0.2 (incl.)
Total dimenions (mm)	340x215x350		
Power	110-220VAC, 50/60Hz		



▶ KBD - Electronical, precision 0.001 g

▶ Series 5173



- 1| High-precision load sensor and overload protection
- 2| Aluminium housing and stainless steel plate.
- 3| Large, easy to read backlit LCD display.
- 4| Weighing, parts counting and hook functions for bottom weighing.
- 5| Automatic calibration by external weight (included).

balances icons - series 5173



Code	KBD004	KBD005
Max capacity. (g)	100	300
Readability (g)	0.001	0.001
Repeatability (g)	±0.002	±0.002
Linearity (g)	±0.002	±0.002
Error (g)	±0.002	±0.002
Stabilization time (s)	1-1.5	
Pan size (mm)	90	
Weighting units	g, ct, oz, lb, ozt	
Calibration weight(kg)	0.05 (Included)	0.2 (Included)
Total dimnesions (mm)	295x192x280	
Power	220-240VAC/50Hz	

▶ KBF - Analytical, precision 0.0001 g

▶ Series 5134



- 1| Electromagnetic force compensation technology.
- 2| Adjustment of the sensitivity level and weighing speed.
- 3| Overload protection. Large, easy-to-read backlit LCD display.
- 4| Aluminium housing and stainless steel plate. Weighing, parts counting, percentage and hook functions for lower weighing.
- 5| Automatic calibration by external weight (included) or internal depending on the model.

balances icons - series 5134



Series5134 EX; External calibration	KBF001	KBF003
Series5134 INT; Internal calibration	KBF002	KBF004
Accuracy Class	Class I	Class I
Max capacity. (g)	120	220
Min capacity (g)	0,010	0,010
Readability (g)	0.0001	0.0001
Scale verification value (g)	0.001	
Repeatability (g)	±0.0002	
±0.5e	0 ≤ m ≤ 50000	
±1.0e	50000 < m ≤ 200000	
±1.5e	20000 < m	
Stabilization time (s)	≤ 8	
Pan size (mm)	Ø 80	
Weighting units	g, mg, ct, oz	
Total dimnesions (mm)	340x215x350	
Power	110-220VAC, 50/60Hz	

KBH - Pocket balances

Series 5043

- 1| Compact and robust design with protective cover.
- 2| Backlit touch screen for easy reading
- 3| Stainless steel weighing pan.
- 4| Weighing, parts counting and tare function by direct access key.
- 5| One-point calibration (calibration weight not included).



Code	KBH001	KBH002	KBH003
Capacity (g)	100	200	500
Readability (g)	0.01	0.01	0.1
Pan size (mm)	60x60		
Weighting units	g, ct, dwt, oz, ozt		
Calibration weight	0,1 kg	0.2 kg	-
Dimensions (mm)	70x115x20		
Power	2 battery 1.5 V (AAA)		

KBK - Analytical, precision 0,00001 g

Model 5135

- 1| High performance equipment that offers fast and accurate measurements. Precision balance with a readability of 0.00001g in the range 0-50g, and 0.0001g in the range 50-200g
- 2| With RS232 output to connect the balance to a printer, computer or other external device. Easy to use and read thanks to a backlit LCD display.
- 3| Electromagnetic force compensation technology
- 4| Aluminum housing and stainless steel plate
- 5| Glass urn with sliding side and top doors
- 6| Height adjustable threaded feet and visible level bubble for correct leveling
- 7| External calibration; external calibration weight included (200g)
- 8| Tare over the entire weighing range
- 9| Selectable measurement units: g, ct, oz, lb, ozt, dwt, GN
- 10| Percentage determination function
- 11| Overload protection
- 12| Part Count Mode



balances icons - series 5135



Code	KBK001
Max capacity (g)	200
Capacity mín (g)	0.001
Readability (g)	0.00001
Repetitibilidad (g)	± 0,00003
Linearity (g)	± 0,0002
Calibration weight (g)	200 (included)
Stabilization time	3-7 seg
Pan size	90 mm
Total dimensions	460x205x280 mm
Power	220V 50/60Hz



KBN - Weighting accessories

Watch glass, ground edge



Code	Diameter (mm)
KBN001	45
KBN002	50
KBN003	60
KBN004	70
KBN005	80
KBN006	90
KBN007	100
KBN008	120
KBN009	150
KBN010	180

Watch glass, burnt edge



Code	Diameter (mm)
KBN011	40
KBN012	50
KBN013	60
KBN014	70
KBN015	80
KBN016	100
KBN017	120
KBN018	140
KBN019	160
KBN059	200

Watch glasses, PP

**Kartell**

1 | Equipped with a support base that prevents it from turning.

Code	Diameter (mm)
KBN030	60
KBN031	75
KBN032	100
KBN033	125

Watch glasses, PTFE

**Kartell**

1 | Watch glasses PTFE

Code	Diameter (mm)
KBN034	52
KBN035	76
KBN036	99
KBN037	126
KBN038	153

KBN - Weighting accessories

▶ Watch glass, PTFE

VITLAB

Code	Diameter (mm)
KBN503	50
KBN501	75
KBN502	100
KBN519	125



▶ Weighing bottles

Kartell

- 1 | Lightweight, autoclavable and reusable Air-tight pressure lid.
- 2 | Optimal resistance to acids.

Code	Capacity	Dim. (ØxH)	Tara (g)
KBN023	23 mL	30x48 mm	8
KBN024	20 mL	40x29 mm	8
KBN025	60 mL	40x69 mm	14
KBN026	30 mL	49x29 mm	10
KBN027	50 mL	59x34 mm	18
KBN028	190 mL	59x88 mm	28
KBN029	360 mL	70x118 mm	40


VITLAB

Code	Capacity	Dimensions
KBN515	65 mL	60 x 40 mm
KBN516	50 mL	30 x 50 mm
KBN517	65 mL	35 x 60 mm
KBN518	200 mL	90 x 60 mm



DIMENSIONS - weighting bottles



SJ: frosted
d: diameter
h: height



Code	Capacity	Dim. (dxh)	SJ
KBN052*	20 mL	50x30 mm	45/12
KBN054*	90 mL	80x40 mm	71/12
KBN058*	8 mL	24x40 mm	19/12

*these items are supplied on request

KBN - Weighting accessories

▶ Weighting boat



DIMENSIONS - Weighting boat

b: height
a: length



Code	a x b
KBN020	37/17 mm
KBN021	53/23 mm
KBN022	64/29 mm

▶ Balance boats



Kartell

Code	Type	Cap. (mL)	Colour	Dimensions (mm)	Pack
KBN039	Square	7	White	43x43x8	1000
KBN040	Square	100	White	78.5x78.5x23	1000
KBN041	Square	250	White	134x134x23	1000
KBN042	Rhomboidal	5	White	31x53x5.3	1000
KBN043	Rhomboidal	5	Black	31x55x4.6	1000
KBN044	Rhomboidal	30	White	56x85x14.5	500
KBN045*	Rhomboidal	30	Black	56x85x14.5	500
KBN046	Rhomboidal	100	White	96x134.5x18.5	250
KBN047	Rhomboidal	100	Black	96x134.5x18.5	250

*these items are supplied on request

KBP - Spring balances

▶ Plastic



Code	Range	Sensibility
KBP003	250 g / 2.5 N	5 g / 0.05 N
KBP004	500 g / 5 N	10 g / 0.1 N
KBP005	1000 g / 10 N	20 g / 0.2 N
KBP006	2000 g / 20 N	50 g / 0.5 N
KBP007	3000 g / 30 N	50 g / 0.5 N
KBP008	5000 g / 50 N	100 g / 1 N

KBQ - Mechanical balances

▶ Roberval series 5001



- 1 | Oven-painted steel with treated steel blades and agate bearings
- 2 | Frontal scale for additions from 5g to 50g (depending on model). Weight set included.

Code	KBQ003	KBQ004
Capacity (g)	1000	2000
Readability (g)	1	2
Range scale (g)	0-10	*
Scale division (g)	1	-
Pan size (mm)	Ø 134	Ø 170
Dimensions (cm)	35x14x20	40x18x30

* Without frontal scale

KBQ - Mechanical balances

Equal-arm balance



- 1| Weighing system in steel with treated steel blades and blocking system.
- 2| Removable for storage (wooden box included).
- 3| Includes a complete set of weights.

Code	KBQ005
Capacity (g)	100
Sensibility (g)	0.02
Pan size (mm)	Ø 80
Dimensions (mm)	300x160x80



Monoplate balance 4 beams



- 1| Light metal casting, with agate bearings and hardened steel blades.
- 2| It has 4 arms with sliding weights of 100g, 10g, 1g and 0.1g
- 3| With platform for hydrostatic weighing. With magnetic cushioning

Code	KBQ006
Capacity (g)	311
Sensibility (g)	0.01
1a beam	1g divided each 0.01g
2a beam	10g divided each 1g
3a beam	100g divided each 10g
4a beam	200g divided each 100g
Pan size (mm)	Ø100
Dimensions (mm)	420x180x360



Monoplate balance 3 beams



- 1| Light metal casting, with agate bearings and hardened steel blades.
- 2| It has 3 arms with sliding weights.
- 3| Incorporates a support for additional weights supplied with the equipment:
 - 2 weights of 295g that increase the capacity by 1000g.
 - 1 weight of 147.5g that increases in 500g the capacity.
- 4| With magnetic cushioning

Code	KBQ007
Capacity (g)	610 2610, with additional weights
Sensibility (g)	0.1
1a beam	10g divided each 0.1g
2a beam	500g divided each 100g
3a beam	100g divided each 10g
Pan size (mm)	150 mm
Dimensions (mm)	420x180x360



KBR - Mechanical, set of weights



- 1| Made of A3 class M2 steel
- 2| Usually used with mechanical scales.
- 3| Supplied in a case.

Code	KBR001
Description	Set of weights de 200g
Composed of	<ul style="list-style-type: none"> 1 weight of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g 1 weight of 5g 1 clamp





KBR - Mechanical, set of weights



Code	KBR002
Description	Set of weights de 500g
Composed of	1 weight of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g 1 clamp



Code	KBR003
Description	Set of weights de 1000g
Composed of	1 weight of 500g 1 weight of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g



Code	KBR004
Description	Set of weights de 2000g
Composed of	1 weight of 1kg 1 weight of 500g 1 weights of 200g 2 weights of 100g 1 weight of 50g 2 weights of 20g 1 weight of 10g



KBS - Weights E2



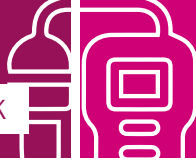
Certification "Enac" for weights E2

Code	KBS016
Description	For E2 weights from 1 mg to 500 g

- 1 | High-precision test and adjustment weights for high-resolution analytical balances in verification class I with a maximum resolution of more than 100,000 d.
- 2 | Made of non-magnetic stainless steel
- 3 | Supplied with individual storage box.

Code	Weight (nominal value)	Tolerance (mg)
KBS002	1 g	± 0.03
KBS003	2 g	± 0.04
KBS004	5 g	± 0.05
KBS005	10 g	± 0.06
KBS006	20 g	± 0.08
KBS007	50 g	± 0.10
KBS008	100 g	± 0.15
KBS009	200 g	± 0.30
KBS010	500 g	± 0.75
KBS011	1 Kg	± 1.50
KBS012	2 Kg	± 3.00
KBS013	5 Kg	± 7.50
KBS014	10 Kg	± 15.00
KBS015	20 Kg	± 30.00
KBS001	Set 12 fractions E2 of 500mg to 1mg**	----

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.



KBT - Weights F1



- 1| High-precision weights indicated for control, calibration and adjustment of analytical balances in verification class I, with a maximum resolution of approximately 100,000 d
- 2| Made of stainless steel.
- 3| Supplied with individual storage box.

Certification "Enac" for weights F1

Code	KBT016
Description	For weights F1 from 1 mg to 10 kg



Code	Weight (nominal value)	Tolerance (mg)
KBT002	1 g	± 0.10
KBT003	2 g	± 0.12
KBT004	5 g	± 0.15
KBT005	10 g	± 0.20
KBT006	20 g	± 0.25
KBT007	50 g	± 0.30
KBT008	100 g	± 0.50
KBT009	200 g	± 1.00
KBT010	500 g	± 2.50
KBT011	1 Kg	± 5.00
KBT012	2 Kg	± 10.00
KBT013	5 Kg	± 25.00
KBT014	10 Kg	± 50.00
KBT015	20 Kg	± 100.00
KBT001	Set 12 fractions F1 from 500 mg to 1mg** -----	

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.

KBV - Weights F2



- 1| High-precision weights suitable for high-precision scales in verification class II, with a maximum resolution of up to approx. 50,000 d
- 2| Made of stainless steel.
- 3| Supplied with individual storage box.

Certification "Enac" for weights F2

Code	KBV016
Description	For weights F2, from 1 mg to 10 kg



Code	Weight (nominal value)	Tolerance (mg)
KBV002	1 g	± 0.3
KBV003	2 g	± 0.4
KBV004	5 g	± 0.5
KBV005	10 g	± 0.6
KBV006	20 g	± 0.8
KBV007	50 g	± 1.0
KBV008	100 g	± 1.5
KBV009	200 g	± 3.0
KBV010	500 g	± 7.5
KBV011	1 Kg	± 15.0
KBV012	2 Kg	± 30.0
KBV013	5 Kg	± 75.0
KBV014	10 Kg	± 150.0
KBV015	20 Kg	± 300.0
KBV001	Set 12 fractions F2 from 500 mg to 1mg -----	

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.



KBW - Weights M1



- 1 | Precision weights for commercial and industrial scales in verification class III, with a maximum resolution of up to 10,000 d.
- 2 | Made of A3 steel
- 3 | Supplied with individual storage box.

Certification "Enac" for weights M1

Code	KBW019
Description	For weights M1, from 1 mg to 10 kg

Code	Weight (nominal value)	Tolerance (mg)
KBW001	Set 12 fractions M1 of 500mg to 1mg**	-----
KBW002	1 g	± 1.0
KBW003	2 g	± 1.2
KBW004	5 g	± 1.5
KBW005	10 g	± 2.0
KBW006	20 g	± 2.5
KBW007	50 g	± 3.0
KBW008	100 g	± 5.0
KBW009	200 g	± 10.0
KBW010	500 g	± 25.0
KBW011	1 Kg	± 50.0
KBW012	2 Kg	± 100.0
KBW013	5 Kg	± 250.0
KBW015	10 Kg	± 500.0
KBW017	20 Kg	± 1000.0

** Set of fractions: 1x1mg, 2x2mg, 1x5mg, 1x10mg, 2x20mg, 1x50mg, 1x100mg, 2x200mg and 1x500mg.

▶ Block Weight class M1



- 1 | According to OIML-R111.
- 2 | Made of painted cast iron.
- 3 | Density 7.2g/cm³.

Code	Weight (nominal value)	Tolerance (mg)
KBW014	5 Kg	±250
KBW016	10 Kg	±500
KBW018	20 Kg	±1000



KDB - Testers

▶ Mini pH-tester



- 1 | Ideal for laboratory and field practice. With two-point calibration.

Code	KDB002	KDB003
Range	0-14 pH	0-14 pH
Resolution	0.1 pH	0.01 pH
Accuracy	± 0.3 pH	± 0.05 pH
CAT	5-50 °C	0-60 °C
Plat. dimensions (mm)	150x29x15	
Power	4 batteries x 1.5V	

KDB - Testers

▶ Pocket meters for pH, Premium series



- 1 | Parameters: pH, ORP, Conductivity, TDS, Salinity, Temperature
- 2 | With different types of replaceable and interchangeable electrodes or probes.
- 3 | Automatic temperature compensation
- 4 | Compatible probes: KDG014, KDG015, KDG016

Code	KDB004	KDB005	KDB006
Parameter	pH/ORP/°C	pH/ORP/°C	pH/ORP/°C
pH			
Range	-2.00-16.00 pH	-2.00-16.00 pH	-2.00-16.00 pH
Resolution / Accuracy	0.01 pH / ±0.01	0.01 pH / ±0.01	0.01 pH / ±0.01
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
ORP			
Range	±1000 mV	±1000 mV	±1000 mV
Accuracy	±0.2%Fs	±0.2%Fs	±0.2%Fs
Temperature	0-50°C	0-50°C	0-50°C
Electrode	Bulb glass	Flat	Spear



▶ Pocket meters for pH, Smart series



- 1 | Smart analyzers of new generation: the Smart Series allows the registration of the measured parameters in mobile devices (Android or iOS) through the ZenTest application via Bluetooth 5.0
- 2 | Compatible probes: KDG017, KDG018, KDG019

Code	KDB007	KDB008	KDB009
Parameter	pH/ORP/°C	pH/ORP/°C	pH/ORP/°C
pH			
Range	-2.00-16.00 pH	-2.00-16.00 pH	-2.00-16.00 pH
Resolution / Accuracy	0.01 pH / ±0.01	0.01 pH / ±0.01	0.01 pH / ±0.01
Calibration	1 to 3 points	1 to 3 points	1 to 3 points
ORP			
Range	±1000 mV	±1000 mV	±1000 mV
Accuracy	±0.2%Fs	±0.2%Fs	±0.2%Fs
Temperature	0-50°C	0-50°C	0-50°C
Electrode	Bulb glass	Flat	Spear



KDD - laboratory pH-meters

▶ Portable pH-meter 902/4



- 1 | Liquid crystal display and moisture-resistant membrane keyboard
- 2 | Supplied with glass combination electrode with BNC connector.
- 3 | Automatic temperature compensation by manual input.

Code	KDD001
Range pH	0.0 a 14.0 pH
Range mV	0 - ± 1400 mV
Resolution pH - mV	0.01 pH - 1 mV
Accuracy pH - mV	± 0.03 pH - ± 0.2%
Range CAT	0-60 °C (Manual)
Calibration	1 o 2 points
Power	2 batteries 5V





KDD - laboratory pH-meters

Digital pH-meter models 903 y 907

REF- KDD002



REF- KDD006



- 1 | Large backlit LCD display for easy understanding and reading.
- 2 | Temperature-compensated pH and electrical potential (mV) measurement parameters.
- 3 | 1 or 2 point calibration with automatic detection of the standard solution.
- 4 | Automatic temperature compensation by keyboard (903) or probe (907).
- 5 | Suitable for the use of ion-selective electrodes.
- 6 | Articulated support integrated in the equipment.
- 7 | RS232 output and software for data transmission (907).

Code	KDD002	KDD006
Model	903	907
Measure range		
pH	0-14.0 pH	-2.00-18.00 pH
mV	±1999 mV	±1999 mV
T	---	0/100 °C (probe included)
Resolution	0.01 pH - 1 mV	0.01 pH - 1 mV - 0.1 °C
Accuracy		
pH	±0.02 pH ± 1bit	±0.02 pH ± 1 bit
mV	±1 mV ± 1bit	±1 mV ± 1bit
T	---	±0.5°C ± 1 bit (0.0-60.0°C) ±1.0°C ± 1 bit (60.0-100.0°C)
Range CAT	0-60 °C (±0.01 pH)	0-100 °C (±0.01 pH)
Stability	± 0.01 pH ± 1 bit/3 h	± 0.01 pH ± 1 bit/3 h
Dimensions	290x210x95 mm	290x200x70 mm
Power	CA (220±22)V / (50±1) Hz	220VAC/9V

pH-meter and moisture tester for soil



- 1 | Portable and resistant for use in agriculture and gardening.
- 2 | Sensor integrated in the conical end.
- 3 | No power required.



Code	KDD004
Range pH	3-8 pH
Humidity Range (%)	1-8 (10-80%)
Resolution pH - %	0.2 pH - 10%
Probe	Fija (30cm)
Dimensions (mm)	410x50

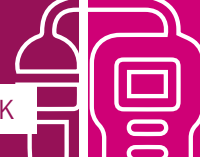
Portable pH-meter, 850 series



- 1 | Supplied with pH and/or conductivity combination electrodes with builtin temperature probe
- 2 | Automatic temperature compensation



Code	KDD007
Model	pH850
Parameters	pH/mV/Temp
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Temperature	0 - 100°C



▶ KDD - laboratory pH-meters

▶ Benchtop meters, 700 series



- 1 | Equipped with long-lasting 3-in-1 pH combination electrode and conductivity combination electrode, with integrated temperature probe
- 2 | Automatic recognition of 6 types of pH standard solutions and 8 types of conductivity. Conexion: KDG021

Code	KDD008
Model	pH700
Parameters	pH/mV/°C
pH	
Range	0 – 14 pH
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100°C



▶ Benchtop meters, 820 series



- 1 | They are equipped with a premium long-life glass electrode for pH and platinum back brush-resistant conductivity (BPB) and temperature combined electrode.
- 2 | Its intelligent processor automatically recognizes up to 15 types of pH buffer solutions and up to 8 types of standard conductivity solutions. Conexion: KDG022/KDG039

Code	KDD009
Model	pH820
Parameters	pH/mV/°C
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Accuracy	±0.002 pH ± 1 digit
Stabilité	±0.002 pH ± 1 digit/3hours
Temp. compensation	0-100°C
Calibration	1 to 5 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Accuracy	±0.1 % FS ± 1 digit
Temperature	0 – 100°C



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[4.15]

▶ KDG - Electrodes and accessories

▶ Electrodes de pH



- 1 | pH measuring range from 0 to 14
- 2 | With refillable (liquid electrolyte) or non refillable (gel electrolyte) option.
- 3 | Fixed cable with BNC connector.

Code	KDG005
Work temp (°C)	5-60
Diaphragm	Ceramic
Ø x L (mm)	12x148
Membrane	Spherical
Electrolyte	Refillable liquid
Body	Glass



 KDG - Electrodes and accessories

 LabSen ELECTRODES FOR pH


KDG020 KDG021 KDG022 KDG023 KDG024



Code	KDG020	KDG021	KDG022	KDG023	KDG024
Model	201-C	201T-F	211	221	231
Range	0 – 14 pH	0 – 14 pH	0 – 14 pH	0 – 14 pH	0 – 14 pH
Body	PC	PC	Glass	Glass	Glass
Probe temp	No	NTC 30KΩ	No	No	No
Junction	Ceramic	Ceramic	Ceramic	Movable	Ceramic
Dimens (mm)	ø12x 160	ø12x 160	ø12x 120	ø12x 130	ø12x 120



KDG025 KDG026 KDG027 KDG028 KDG029

Code	KDG025	KDG026	KDG027	KDG028	KDG029
Model	241-6	241-3	251	221	231
Range	0 – 14 pH	0 – 14 pH	0 – 14 pH	0 – 14 pH	0 – 14 pH
Body	Glass	Glass	Glass	Glass	Glass
Probe temp	Sonde	Sonde	No	NTC 30kΩ	NTC 30kΩ
Junction	Ceramic	Ceramic	Ceram. + pore	Ceramic	Movable
Dimens (mm)	ø12-6 x 150 (100)	ø12-3 x 150 (70)	ø12-6 x 100	ø12x 120	ø12x 130



KDG030 KDG031 KDG032 KDG033 KDG034

Code	KDG030	KDG031	KDG032	KDG033	KDG034
Model	333	803	831	841	851-1
Range	0 – 14 pH	1 – 11 pH	0 – 11 pH	2 -14 pH	0 – 14 pH
Body	POM	Glass	Glass	Glass	Glass
Probe temp	NTC 30kΩ	NTC 30KΩ	No	No	No
Junction	Pore	Movable	Ceramic	Movable	Ceramic*3
Dimens (mm)	ø12x 120	ø12x 130	ø12x 120	ø12x 120	ø12x 120

 LabSen Electrodes for pH

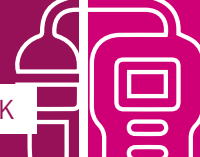

COD:KDG035 COD:KDG036



Code	KDG035	KDG036
Model	823	753
Range	0 – 14 pH	0 – 14 pH
Body	Glass	Stainless steel
Probe temp	NTC 30kΩ	NTC 30KΩ
Junction	Ceramic*3	Ceramic + pore
Dimens (mm)	ø12x 160	ø12x 160

 ORP Electrodes


Code	KDG037	KDG038
Model	301Pt-C	3501Pt-Glass
Range	± 2000 mV	± 2000 mV
Body	PC	Glass
Probe temp	Platinum ring	Platinum ring
Junction	Ceramic	Ceramic
Dimens (mm)	ø6 x 2.5	ø6 x 5



KDJ - Paper pH

Universal

1| With colour scale indicating approximate pH value.

Code	Range pH	Scale	Format
KDJ002	0-10	1	Box 200 strips
KDJ003	0-10	1	Roll 5 meters
KDJ005	1-14	1	Box 200 strips
KDJ007	1-14	1	Box 80 strips
KDJ006	1-14	1	Roll 5 meters



KGB - Pocket tester

Pocket conductimeter tester, premium series

1| Automatic recognition of 5 types of buffer solutions. Triple-colour backlit display with icons indicator. Compatible probe: KGG007

Code	KGB011
Parameters	EC/ °C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / \pm 1%Fs
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt



Pocket conductimeter tester, smart series

1| Step-by-step operation guide, calibration reminders, self-diagnostics, measurement Calibration status and electrode status message. Compatible probe: KGG008

Code	KGB012
Parameters	EC/ °C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / \pm 1%Fs
Calibration	1 to 3 points
Temp coefficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt



KGD - Laboratory conductivity-meters

Portable conductivity meter 910/3

1| Backlit LCD display and membrane keypad. Automatic Temperature Compensation (CAT) by entering data through the keyboard.

2| Modifiable cell constant for values of 0.01, 1 and 10 cm^{-1} . Supplied with platinum conductivity cell ($K=1 \text{ cm}^{-1}$).

Code	KGD001
Conductivity	
Range	0.00-19.99 μ S/cm; 20.0-199.9 μ S/cm; 200-1999 μ S/cm; 2000-19000 μ S/cm; 20.0-100.0 mS/cm
Resolution	0.01 μ S/cm; 0.1 μ S/cm; 1 μ S/cm; 1 μ S/cm; 0.1 mS/cm
Accuracy (\pm 1 digit)	\pm 1.5%
Range CAT	15-35 °C (Entering data via keyboard)
Temp coefficient	2 % / °C (fix)
Referral temp	25 °C
Dimensions	170x80x35 mm
Power	2 batteries 1.5V, type AA



 KGB - Pocket tester

 Portable conductivity meter 910/5




- 1 | Determination of conductivity, total dissolved solids (TDS) and salinity parameters
- 2 | Backlit LCD display and splash and moisture resistant membrane keypad
- 3 | Automatic temperature compensation (CAT) with built-in temperature probe.
- 4 | Modifiable cell constant for values of 0.01, 0.1, 1, 5 and 10 cm-1
- 5 | Supplied with platinum conductivity cell (K=1 cm-1).
- 6 | RS232 output for connection to PC or printer.

Code	KGD002
Conductivity	
Range	0.00-19.99 $\mu\text{S}/\text{cm}$; 20.0-199.9 $\mu\text{S}/\text{cm}$; 200-1999 $\mu\text{S}/\text{cm}$; 2.00-19.99 $\mu\text{S}/\text{cm}$; 20.0-199.9 mS/cm
Resolution	0.01 $\mu\text{S}/\text{cm}$; 0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$, 0.01 $\mu\text{S}/\text{cm}$; 0.1 mS/cm
Accuracy (± 1 digit)	$\pm 1.5 \%$
Salinity	
Range	0.00-8.00 %
Resolution	0.01 %
Accuracy (± 1 digit)	$\pm 0.3 \%$
Range de T	0.0-40.0 $^{\circ}\text{C}$
Temp coefficient	0-4 $\%/^{\circ}\text{C}$ (by default 2 $\%/^{\circ}\text{C}$)
Referral temp	25 $^{\circ}\text{C}$ (conductivity and TDS) y 18 $^{\circ}\text{C}$ (salinity)
Conversion ratio TDS	0.40-1.00 (by default 0.50)
Dimensions	210x100x45 mm
Power	4 batteries 1.5V (AA)

 Laboratory conductivity meter 910/9




- 1 | Determination of conductivity, resistivity, TDS, salinity and temperature
- 2 | Large backlit LCD display with membrane keyboard.
- 3 | Automatic temperature compensation (CAT) by keypad or by built-in temperature probe.
- 4 | Modifiable cell constant for values of 0.01, 0.1, 1, 5 and 10 cm-1
- 5 | Supplied with platinum conductivity cell (K=1 cm-1).
- 6 | Use according to GLP standards.
- 7 | USB output for connection to the computer by means of communication software.

Code	KGD003
Measure range	
Conductivity	0.000 $\mu\text{S}/\text{cm}$ – 199.9mS/cm*
Resistivity	5.00 $\Omega \cdot \text{cm}$ – 20.00 M $\Omega \cdot \text{cm}$
TDS	0.000 mg/L – 99.9 g/L
Salinity	(0.00-8.00) %
Temperature	(-5.0 – 110.0) $^{\circ}\text{C}$
Electrical unit accuracy	
Conductivity	$\pm 0.5 \%$ FS
Resistividad	$\pm 0.5 \%$ FS
TDS	$\pm 0.5 \%$ FS
Salinity	$\pm 0.1 \%$
Temperature	$\pm 0.2^{\circ}\text{C}$
Temp compensation	Auto/Manual: -5.0 – 50.0 $^{\circ}\text{C}$
Stability	$\pm 0.3 \%$ FS/3h
Temp coefficient	Adjustable
Norm GLP	Yes
Output	USB port
Working conditions	0-40 $^{\circ}\text{C}$, $\leq 85 \%$ HR
Power	Adaptador 100-240 V / 9 V DC
Dimensions	280x215x92 mm

* automatic change of range and frequency

▶ KGD - Laboratory conductivity-meters

▶ 850 Series



- 1 | Supplied with pH and/or conductivity combination electrodes with builtin temperature probe.
- 2 | Automatic temperature compensation
- 3 | Large LCD screen with automatic lock and shutdown
- 4 | Compatible probes: KZD017

Code	KGD004
Model	EC850
Parameters	Cond/TDS/Temp
Conductivity	
Range	0 – 19.99 μ S/cm; 20.0 – 199.9 μ S/cm 200-1999 μ S/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μ S, 0.01/0.1 mS
Accuracy	\pm 1.0% FS \pm 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



▶ 700 Series



- 1 | Equipped with long-lasting 3-in-1 pH combination electrode and conductivity combination electrode, with integrated temperature probe
- 2 | Automatic recognition of 6 types of pH standard solutions and 8 types of conductivity
- 3 | Compatibles probes: KZD017

Code	KGD005
Model	EC700
Parameters	Cond./°C
Conductivity	
Range	0 – 19.99 μ S/cm; 20.0 – 199.9 μ S/cm 200-1999 μ S/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μ S, 0.01/0.1 mS
Accuracy	\pm 1.0% FS \pm 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



▶ 820 Series



- 1 | Fast pH and conductivity readings with maximum accuracy (\pm 0.002 pH / \pm 0.5 % FS conductivity)
- 2 | Calibration reminder (automatic, quick and easy) Also displays the pH electrode curve to quickly see its status
- 3 | Electrodes compatibles: KZD019

Code	KGD006
Model	EC820
Parameters	Cond/TDS/Sal/°C
Conductivity	
Range	0 – 19.99 μ S/cm; 20.0 – 199.9 μ S/cm 200-1999 μ S/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μ S, 0.01/0.1 mS
Accuracy	\pm 0.5% FS \pm 1 digit
Constant electrode	0.01/0.1/1.0/10.0 cm-1
Compensation temp.	0 – 50°C
Calibration	1 to 4 points, automatic
Temperature	-10 – 110°C



▶ KGD - Laboratory conductivity-meters

▶ Conductivity meter "CD-2004"



- 1 | Conductivity, TDS and salinity reading.
- 2 | Automatic temperature compensation.
- 3 | Calibration with conductivity TDS and salinity standards.



Conductivity and Temperature Cell (not included)

Code	KGD502
Description	Conductivity cell with epoxy body. Temperature probe Rt-2252. Connectors with IP65 protection

Code	KGD501
Conductivity	
Range	0.00-19.99 $\mu\text{S/cm}$; 20.0-199.9 $\mu\text{S/cm}$; 200-1999 $\mu\text{S/cm}$; 2000-19000 $\mu\text{S/cm}$; 20.0-100.0 mS/cm
TDS	0,00 a 10,00 mg/L; 10,00 to 100,0 mg/L; 100,0 to 1000 mg/L; 1,000 a 10,00 g/L; 10,00 to 19,99 g/L
Salinity range	0,00 a 8,00
Temperature range	0,0 a 40,0 $^{\circ}\text{C}$
Accuracy	25 $^{\circ}\text{C}$
Conductivity	1,5% Scale fund
Salinity	0,20%
Temperature	0,3 $^{\circ}\text{C}$

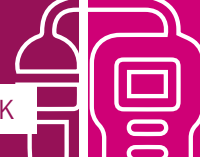
▶ Multi-Parameter counter "MP-2006"



- 1 | 5.7 inch touch screen.
- 2 | Capacity to store up to 2200 data sets. GLP method.
- 3 | Ability to store, print and delete measurement data.
- 4 | USB and RS-232 ports for PC connection.
- 5 | Continuous, delay and balance measurement



Code	KGD504
pH	
Range	-2 a +19,999
Accuracy	$\pm 0,002$ FS
Resolution	0,001
ORP	
Range	$\pm 1999,99$ mV
Accuracy	$\pm 0,03$ FS
Resolution	0,01 mV
Conductivity	
Range	0,001 μS a +199,9mS
Accuracy	$\pm 0,5$ FS
Resolution	0,001 μS
TDS	
Range	0,000 mg/L a 19.99g/L
Accuracy	$\pm 0,5$ FS
Resolution	0,001 mg/L
Salinity	
Range	(0,0 a 8,00)%
Accuracy	$\pm 0,1\%$
Resolution	0,1%
Disolved oxygen	
Range	0,00 a 19.99 mg/L
Accuracy	$\pm 0,5$ mg/L
Resolution	0,01 mg/L
Temperature	
Range	-0,5 a +135
Accuracy	$\pm 0,5$ FS
Resolution	0,1
Dimensions	290X200X70 mm
Power	230V/50-60Hz



▶ KGD - Laboratory conductivity-meters

▶ Conductivity meter "CD-2005"








- 1 | Conductivity reading, TDS. Automatic or manual temperature compensation with fixed coefficient of 2%. Calibration with TDS conductivity and salinity standards.
- 2 | RS-232 output for reading and printing parameters by computer.
- 3 | Adjustment of the probe constant. Input for Temperature probe Rt-2252

Code	KGD503
Conductivity	
Range	0-20.00 $\mu\text{S/cm}$; 0-200.0 $\mu\text{S/cm}$; 0-2000 $\mu\text{S/cm}$; 0-10.0 mS/cm
Accuracy	(± 1 digit) $\pm 1.5\%$
Escalas de TDS:	de 0 a 1000 mg/L.
Temperature range	0 a 60 $^{\circ}\text{C}$.
Dimensions	300x200x72 mm
Weight	0,5 Kg



▶ KGG - Conductivity cells

- 1 | Glass body resistant to corrosion and organic solvents. With 2 platinum electrodes BNC connector with fixed cable of 60 cm length.

	KGG001	Conductivity cell K=0.1	
		Constant	Measured range
		$0.1 \pm 0.02 \text{ cm}^{-1}$	$0.1 \mu\text{S} - 300 \text{ mS/cm}$
	KGG002	Conductivity cell K= 0.1, CAT	
		Constant	Measured range
		$0.1 \pm 0.02 \text{ cm}^{-1}$	$0.1 \mu\text{S} - 300 \text{ mS/cm}$
	KGG003	Conductivity cell K=1	
		Constant	Measured range
		$1 \pm 0.2 \text{ cm}^{-1}$	$1 \mu\text{S} - 100 \text{ mS/cm}$
	KGG004	Conductivity cell K=1, CAT	
		Constant	Measured range
		$1 \pm 0.2 \text{ cm}^{-1}$	$1 \mu\text{S} - 100 \text{ mS/cm}$
	KGG005	Conductivity cell K=10	
		Constant	Measured range
		$10 \pm 2 \text{ cm}^{-1}$	$300 \mu\text{S} - 1000 \text{ mS/cm}$

▶ KJB - Solid stem

▶ Solid stem



- 1 | Brown graduation resistant to the action of physical-chemical agents. Filled with non-contaminating or dangerous coloured organic liquid. Ring to suspend the thermometer. Supplied in individual protective plastic case.

Code	Range	Divisions	Lenght
KJB003	-10 / 50 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	30 cm
KJB004	-10 / 110 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	30 cm
KJB009	-10 / 250 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB010	-10 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB011	-10 / 110 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB012	-10 / 150 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB013	-10 / 200 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB014	-10 / 250 $^{\circ}\text{C}$	2 $^{\circ}\text{C}$	30 cm
KJB017*	-10 / 50 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$	55 cm
KJB018	-10 / 50 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	55 cm
KJB019	-10 / 110 $^{\circ}\text{C}$	0.2 $^{\circ}\text{C}$	55 cm
KJB020	-10 / 110 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	55 cm
KJB021	-50 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB022	-100 / 50 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	30 cm
KJB023	- 20 / 150	2 $^{\circ}\text{C}$	30 cm

* without a glass ring



KJD - Enclosed scale

Coloured spirit filled



- 1 | Internal scale graduated in black. Ring to suspend the thermometer.
- 2 | Filled with non-contaminating or dangerous coloured organic liquid. Supplied in individual protective plastic case.

Code	Range	Divisions	Length
KJD001	-10/50 °C	0.5 °C	30 cm
KJD002	-10/110 °C	0.5 °C	30 cm
KJD005	-10/50 °C	1 °C	30 cm
KJD006	-10/110 °C	1 °C	30 cm
KJD007	-10/150 °C	1 °C	30 cm
KJD008	-10/200 °C	1 °C	30 cm
KJD009	-10/250 °C	2 °C	30 cm

KJG - Contact

Electric contact thermometers



Code	Range °C	Division scale °C	Immersion length cm	Total length cm
KJG501	0 +100	1/1	15	39
KJG502	0 +200	2/1	15	39
KJG503	0 +300	5/1	15	39

KJJ - With metal probe

Digital thermometer



- 1 | LCD display for comfortable and quick reading of data.
- 2 | Default alarm temperature. Timer up to 20 hours.

Code	KJJ001
Functions	Stopwatch, alarma
Range	50/300 °C - 122/572°F
Resolution	1 °C - 1 °F
Probe	60 mm, con cable de 1 m
Power	1 pila 1.5V (AAA)

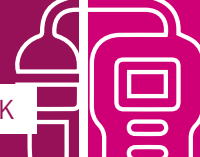
* this item is available until end of stock

Digital



- 1 | Temperature measurement in solids and semi-solids (foodstuffs, soils, etc.)
- 2 | LCD display for comfortable and quick data reading.
- 3 | Penetration probe made of stainless steel, fixed or with cable.

Code	KJJ004
Functions	Max/min memory
Range	-50/300°C - 58/572°F
Resolution	0.1 °C - 0.1 °F
Probe	150 mm, fix
Power	1 button cell 1.5V (AG13)



▶ KJJ - With metal probe

▶ Electronic contact thermometer "Sensoterm II"



- Advantages include a separate temperature probe that maintain the main body away from steam and other vapours.
- Safer than a glass contact thermometer, eliminating the risk of broken it and a mercury spillage. Main body made of ABS plastic.

Code	KJJ502
Temp range	-50 °C to 300 °C.
Temperature probe	3.5 mm Ø x 250 mm immersion.
Temperature Display	8 mm high LCD display
Ambient working range	0 to 60 °C and a relative humidity of 80 %.
Dimensions	130x70x24
Weight	0,25 Kg



▶ KJM - Room temperature

▶ Digital



- Temperature (T) and relative humidity (RH) recording (except KJM016).
- With clock function and maximum and minimum recording.
- Models with probe can be useful to record Temperature of refrigerators or freezers. Power 1 1.5V battery (AAA)

Code	R.T ^a interior	R.T ^a exterior	R.HR	Resolution	Accuracy
KJM002	- 50/70 °C - 58/158 °F	-	10%-99%	0.1 °C 0.1 °F 1 %HR	±1 °C ±2 °F ±5 %HR
KJM016*	-10/50°C 14/122°F	-40/70°C -40/158°F	-	0.1 °C 0.1 °F	±1 °C ±2 °F
KJM017*	-0/50°C 32/122°F	-40/70°C -40/158°F	10%-99%	0.1 °C 0.1 °F 1 %HR	±1 °C ±2 °F ±5 %HR

*probe

▶ Plastic



Code	Range	Resolution	Dimensions
KJM006	-40/50 °C -40/120 °F	1 °C 2 °F	400x65 mm
KJM015	-15/50 °C 8/120 °F	1° C 2 °F	200x45 mm



▶ Relative humidity thermometer (Psychrometer)



- Made of plastic with protective canopy for outdoors.
- With double wet-bulb and dry-bulb thermometer. Built-in correlation table to extrapolate relative humidity reading.

Code	Range	Resolution	Dimensions
KJM014	-10/50 °C	1 °C	300x75 mm



KJM - Room temperature

▶ Maximum-minimum thermometers



Code	Range	Resolution	Length	Width
KJM019	-10/50 °C	1 °C	240 mm	64x11 mm
KJM020	-10/50 °C	1 °C	240 mm	64x11 mm

KJP - For refrigerators

▶ Low temperatures



1 | Filled with colored organic liquid..

Code	Description	Range	Divi.
KJP001	Solid steam	-40/40 °C	1 °C
KJP004	With hook, 150 mm	-40/40 °C	1 °C
KJP005	With hook, 200 mm	-40/50 °C	1 °C

▶ Digital dual



- 1 | Registration of room temperature and of the fridge or freezer.
- 2 | Control zone with sound and light alarm.
- 3 | Encapsulated suction cup test with 1 m cab

Code	KJP002
Range T	-50/70 °C -58/158 °F
Resolution	0.1 °C 0.1 °F
Control zone	Freezer (-23/-9.5 °C) - Fridge (2/8 °C)
Probe	1 m
Dimensions	135x25x15 mm
Power	1 battery 1.5V (AAA)

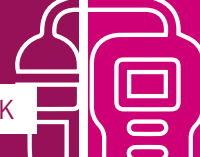
KJR - Others

▶ Thermometer with ring



- 1 | With a ring to suspend the thermometer.
- 2 | Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR002	0/50 °C	1 °C



KJR - Others

▶ Thermometer for wine

- 1 | Wooden head that allows it to be attached to the bottle mouth.
- 2 | Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR003	0/40 °C	1 °C



▶ Soil thermometer

- 1 | Inserted in protective aluminium housing.
- 2 | Non-polluting or dangerous coloured organic liquid.

Code	Range	Resolution
KJR006	-10/110 °C - 20/220 °F	1 °C



KKB - Stopwatches

▶ Digital

- 1 | With stopwatch, clock and calendar functions. Supplied with a cord.

Code	KKB001
Watch	12/24 h
Stopwatch	23 h 59 min 59 s
Resolution	1/100 s (≤ 30 min) / 1 s (> 30 min)
Power	Lithium battery



page
[425]

- 1 | With 6 functions: hours, minutes, seconds, months, date and day

Code	KKB007
Watch	12/24 h
Resolution	1/100 s

* items are available until end of stock



▶ Digital stopwatch

- 1 | Recording of elapsed time, accumulated times and time of the 1st and 2nd position.
- 2 | Has clock function and programmable alarm.

Code	KKB005
Watch	12/24 h
Calendar	Date and day of the week
Stopwatch	23 h 59 min 59 s
Resolution	1/100 s (≤ 1 h) 1 s (> 1 h)



▶ KKF - Timers

▶ Alarm timer



Nahita

1 | Laptops and desktops. With alarm at the end of the selected time. Resolution: 1 minute.

Code	Max. time.	Type	Dimensions
KKF001	60 min	Desk/hanged	70x70x40 mm
KKF003	60 min	Portable (Mod. Clip)	57x57x28 mm
KKF004	60 min	Portable (Mod. Onehand)	73x30 mm

▶ Pocket timer



Nahita

1 | With robe pocket clip, magnet for metal surfaces and ring for vertical positioning.

Code	KKF002
Watch	Modo 12/24 h
Timer	Máx. 23 h 59 min 59 s, with final alarm of 1 min
Memory	1
Stopwatch	23 h 59 min 59 s
Dimensions	52x67x25 mm
Power	1 button cell



Kartell

Code	KKF005
Watch	12/24 h
Timer	19h 59' (alarm)
Case	ABS white
Type	Support/Clip/Magnet
Dimensions	50x62x23 mm

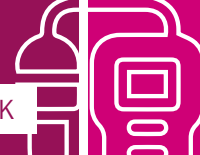
▶ KLB - Alcoholometers

Nahita



1 | Glass body. Presentation in individual case. Calibrated at 20°C except KLB015* at 15°C. In Gay Lussac scale (% alcohol volume) and Cartier scale (KLB014 and KLB015).

Code	Range (%V)	Divisions	Length	Diameter
KLB004	0-10 %	1/10	330 mm	31 mm
KLB005	10-20 %	1/10	330 mm	31 mm
KLB006	20-30 %	1/10	380 mm	31 mm
KLB007	30-40 %	1/10	315 mm	30 mm
KLB008	40-50 %	1/10	315 mm	30 mm
KLB009	50-60 %	1/10	315 mm	28 mm
KLB010	60-70 %	1/10	380 mm	25 mm
KLB011	70-80 %	1/10	380 mm	25 mm
KLB012	80-90 %	1/10	380 mm	22 mm
KLB013	90-100 %	1/10	380 mm	23 mm
KLB001	0-30 %	1/10	290 mm	25 mm
KLB002	0-50 %	1/10	260 mm	22 mm
KLB003	50-100 %	1/10	280 mm	16 mm
KLB014	0-100 % vol. 10-44 °Cartier	1/10 1/2	290 mm	15 mm
KLB015*	0-100 % vol. 10-44 °Cartier	1/1 1/2	290 mm	-
KLB016	0-100%	1/1	290 mm	31 mm
KLB017	0-20 %	1/1	305 mm	26 mm
KLB018	20-40 %	1/1	305 mm	26 mm
KLB019	40-60 %	1/1	305 mm	26 mm
KLB020	60-80 %	1/1	305 mm	26 mm
KLB021	80-100 %	1/1	305 mm	26 mm
KLB022	94-104 %	1/1	305 mm	26 mm



KLD - Areometers



- 1| Glass body.
- 2| Presentation in individual case.
- 3| In density scale (Kg/m³). Calibrated at 20°C.



Code	Baumé (°Be)	Divisions	Length	Diameter
KLD001	0-10	1/10	290 mm	16 mm
KLD005	10-20	1/10	310 mm	20 mm
KLD007	20-30	1/10	280 mm	18 mm
KLD008	30-40	1/10	310 mm	18 mm
KLD009	40-50	1/10	290 mm	22 mm
KLD010	50-60	1/10	310 mm	16 mm
KLD011	60-70	1/10	310 mm	15 mm
KLD002	0-30	1/10	310 mm	15 mm
KLD003	0-50	1/10	240 mm	14 mm
KLD004	0-70	1/10	290 mm	12 mm
KLD006	5-15	1/10	310 mm	20 mm
KLD012	0-20	1/10	285 mm	18 mm
KLD013	20-40	1/10	285 mm	18 mm
KLD014	40-60	1/10	290 mm	21 mm
KLD015	30-60	1/10	300 mm	15 mm
KLD016	0-40	1/10	290 mm	15 mm

KLK - Hydrometers

Hydrometer for analytical use



Code	Range (g/mL)	L (total)xØ
KLK032	0,600-0,650	270x21 mm
KLK033	0,650-0,700	270x21 mm
KLK034	0,700-0,750	270x21 mm
KLK035	0,750-0,800	270x21 mm
KLK036	0,800-0,850	270x21 mm
KLK037	0,850-0,900	270x21 mm
KLK038	0,900-0,950	270x21 mm
KLK039	0,950-1000	270x21 mm
KLK040	1000-1050	270x21 mm
KLK041	1050-1100	270x21 mm
KLK042	1100-1150	270x21 mm
KLK044	1200-1250	270x21 mm
KLK045	1250-1300	270x21 mm
KLK046	1300-1350	270x21 mm
KLK047	1350-1400	270x21 mm
KLK048	1400-1450	270x21 mm
KLK049	1450-1500	270x21 mm
KLK050	1500-1550	270x21 mm
KLK051	1550-1600	270x21 mm
KLK052	1600-1650	270x26 mm
KLK053	1650-1700	270x26 mm
KLK054	1700-1750	270x26 mm
KLK055	1750-1800	270x26 mm
KLK056	1800-1850	270x26 mm
KLK057	1850-1900	270x26 mm
KLK058	1900-1950	270x26 mm
KLK059	1950-2000	270x26 mm



KLG - Hydrometers

Hydrometers



1 | Glass body. Presentation in individual case. In density scale (Kg/m³), calibrated at 20°C.

Code	Range (Kg/m ³)	Divisions	L (total)xØ
KLG001	600-700	1	310x16 mm
KLG002	700-800	1	310x16 mm
KLG003	800-900	1	310x17 mm
KLG004	900-1000	1	310x17 mm
KLG005	1000-1100	1	310x17 mm
KLG006	1100-1200	1	310x17 mm
KLG007	1200-1300	1	310x18 mm
KLG008	1300-1400	1	310x18 mm
KLG009	1400-1500	1	310x18 mm
KLG010	1500-1600	1	310x19 mm
KLG011	1600-1700	1	310x20 mm
KLG012	1700-1800	1	310x20 mm
KLG021	1800-2000	2	290x20 mm
KLG025	600-800	2	305x21 mm
KLG026	800-1000	2	285x18 mm
KLG027	1000-1200	2	260x18 mm
KLG028	1200-1400	2	280x18 mm
KLG029	1400-1600	2	290x18 mm
KLG030	1600-1800	2	295x21 mm
KLG031	1800-2000	2	305x21 mm

Quevenne lactometer



- 1 | Suitable for the determination of milk density in the dairy industry.
- 2 | Glass body with lacto-density scale (15° equals 1015g/mL).
- 3 | Calibrated at 20°C and available with thermometer for deviation correction.
- 4 | Presentation in individual case.

Code	Range	Divisions	L (total)xØ	Thermometer
KLG014	15-40	1	215x19 mm	No
KLG015	15-40	1	290x3 mm	Yes (0-40°C)

Battery hydrometer



- 1 | Allows you to check the electrolyte status of a battery.
- 2 | Rugged glass body, with knob and suction tube.
- 3 | Calibrated at 20°C.al.

Code	Range	N° divisions
KLG020	1100-1300 Kg/m ³	5

Urine hydrometer



- 1 | Glass body. Presentation in individual case
- 2 | In density scale (Kg/m³), calibrated at 20°C.

Code	Range (kg/m ³)	Divisions	Lenght
KLG017	1000-1060	1	145 mm

KLJ - Saccharometers

With and without thermometer



- 1| Indicated for the determination of the sugar concentration in a solution.
- 2| On Brix scale (1 °Brix is equivalent to 1 g of sucrose per 100 g of solution (1% in Weight)).
- 3| Calibrated at 20°C. Presentation in individual case..

Code	Range (°Bx)	Div.	L (total)xØ	Thermometer
KLJ001	0-30	1	280x15 mm	No
KLJ008	70-80	1	370x26 mm	Yes
KLJ009	80-90	1	370x26 mm	Yes
KLJ010	30-60	1	370x21 mm	Yes
KLJ011	60-90	1	370x21 mm	Yes



With and without thermometer



- 1| Indicated for the determination of the sugar concentration in a solution.
- 2| On Brix scale (1 °Brix is equivalent to 1 g of sucrose per 100 g of solution (1% in Weight)).
- 3| Calibrated at 20°C. Presentation in individual case.

Code	Range (°Bx)	Div.	L (total)xØ	Thermometer
KLJ002	0-10	1/10	375x25 mm	Yes
KLJ003	0-20	1/5	375x18 mm	Yes
KLJ004	20-30	1/10	375x25 mm	Yes
KLJ005	30-40	1/10	375x25 mm	Yes
KLJ006	40-50	1/10	375x25 mm	Yes
KLJ007	50-60	1/10	375x25 mm	Yes
KLJ012	0-10	1/10	305x26 mm	No
KLJ013	10-20	1/10	305x26 mm	No
KLJ014	20-30	1/10	305x26 mm	No
KLJ015	30-40	1/10	305x26 mm	No
KLJ016	40-50	1/10	305x26 mm	No
KLJ017	50-60	1/10	305x26 mm	No
KLJ018	60-70	1/10	305x26 mm	No
KLJ019	70-80	1/10	305x26 mm	No
KLJ020	80-90	1/10	305x26 mm	No
KLJ021	0-30		280x18 mm	No
KLJ022	30-60	1/5	280x18 mm	No



KLL - Mustimeters

Mustimeters



- 1| Glass body and presented in individual case
- 2| Calibration at 20°C

Code	Baumé (°Be)	Divisions	L (total)xØ
KLL001	0-30 °Be	1/2	290x17 mm
KLL004*	7-16°Be	1/5	250x23 mm
KLL005	0-20 °Be	1/5	260x20 mm
	4-22 % alc. probable	1/5	
KLL003	4-18 % alc. probable	1/2	310x19 mm
	980-1130 Kg/m ³	1	

* item is available until end of stock





KLL - Mustimeters

Wine hydrometer



Code	Range (°Bx)	Divisions	L (total)xØ
KLL002	-5/30 % vol. alcohol	1/1	245x20 mm



KLN - Hydrometers



1 | Glass body and presented in individual case. Calibrated at 20°C

Code	For	Range	L (total)xØ
KLN003	Siroups	0-50° Be	250x11 mm
KLN006	Bleach	0-45 °Be	255x12 mm
KLN011	Heavys	0- 70° Be 1.000-2.000 Kg/m ³	290x15 mm
KLN012	Lights	10- 70° Be 0.700-1.000 Kg/m ³	305x15 mm
KLN013	Heavys	0- 50° Be 1.000-1.500 Kg/m ³	305x18 mm
KLN014	Heavys	50 70° Be 1.500-2.000 Kg/m ³	305x15 mm
KLN015	Universal	70- 70° Be 0.700-2.000 Kg/m ³	150x10 mm



KLP - Pycnometer for solids

Density petroleum hydrometer



- 1 | Indicated for determining the density of petroleum products. According to ISO3675.
2 | Calibrated at 15°C according to ISO 649-1.
3 | M5OSP and L5OSP series available.

Code	Range (°Bx)	Calibration	L (total)xØ
KLP001	0.650-0.700	0,001	270 mm
KLP002	0.700-0.750	0,001	270 mm
KLP003	0.750-0.800	0,001	270 mm
KLP004	0.800-0.850	0,001	270 mm
KLP005	0.850-0.900	0,001	270 mm
KLP006	0.900-0.950	0,001	270 mm
KLP007	0.950-1.000	0,001	270 mm
KLP008	0.650-0.700	0,0005	335 mm
KLP009	0.700-0.750	0,0005	335 mm
KLP010	-	0,0005	335 mm
KLP011	-	0,0005	335 mm
KLP012	-	0,0005	335 mm
KLP013	-	0,0005	335 mm
KLP014	-	0,0005	335 mm

KLQ - Pycnometers

Gay-Lussac



DIMENSIONS - pycnometers Gay Lussac

*d: diameter
h: height*



BORO
3.3

1 | They allow to know the density or specific weight of liquids or solids. Made of borosilicate glass according to ISO 3507. Calibrated at 20°C.

Code	Cap.	Tolerance	Esm.	ØxH (mm)
KLQ001	10 mL	±1 mL	7/11	27 x 55
KLQ002	25 mL	±2 mL	10/13	40 x 75
KLQ003	50 mL	±3 mL	10/13	50 x 85
KLQ007	100 mL	±5 mL	10/13	57 x 100



Code	Capacity	Tolerance
KLQ005	25 mL	±2 mL
KLQ006	50 mL	±3 mL



Pycnometer for solids



Code	Capacity	Tolerance
KLQ004	50 mL	±3 mL
KLQ008	25 mL	±2 mL



Pycnometer for solids



DIMENSIONS - pycnometer for solids

*d1: diameter
d2: diameter
d3: diameter
h: height*



Code	Capacity	Ground joint	d1 x d2 x d3 x h (mm)
KLQ010	500 mL	45/40	105x10x40x355
KLQ011	1000 mL	45/40	131x10x40x390



KNB - Rotational viscosimeters

▶ Rotational analogic, model 801



- 1 | Analogic rotational viscosimeter, robust, efficient and of easy use.
- 2 | Determination of low dynamic viscosities (motor oil, paints, varnishes, etc)
- 3 | It has 4 rotation speeds and is equipped with 4 spindles.
- 4 | Solid column with pinion/rack system to adjust the head height.
- 5 | Large and stable support base with adjustable legs and bubble level in the head
- 6 | Supplied in metallic case.

Code	KNB001
Measuring range	10-100000 mPa·s (cp)
Precision	± 1%
Spindles	n° 1, 2, 3, 4
Speed	6/12/30/60 rpm
Tolerance	± 5% (Newtonian fluids)
Power supply	220V, 50 Hz

* for low viscosities, spindle n° 0 is required (not included)

▶ Digital viscosimeter, series 810

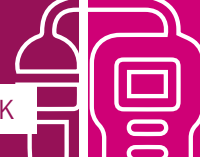


- 1 | Equipped with 4 spindles, spindle guard and temperature probe. *Spindle 0 specific for measuring low viscosities included also on models KNB008, KNB009 and KNB010.
- 2 | LCD backlit display and large control panel for speed and spindle parameter selection
- 3 | RS-232 output
- 4 | Solid support and metal bracket for a strong grip. Incorporates leveling bubble for perfect leveling.
- 5 | Solid column with rack and pinion system and metal head clamp. They allow to place the head comfortably at the desired height, ensuring good stability.
- 6 | The equipment is supplied with support for spindles and on aluminium briefcase for optimum viscosimeter and support storage and conservation.

Code	KNB005	KNB006	KNB007
Model	810/1	810/2	810/3
Measuring range (mPa·s (cPa))	10 – 100000	10 – 2 x10 ⁶	10 – 6x10 ⁶
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s	1 mPa·s	1 mPa·s
Precision	± 1%	± 1%	± 1%
Spindles	1, 2, 3, 4	1, 2, 3, 4	1, 2, 3, 4
Repeatability	0.5 %	0.5 %	0.5 %
Power supply	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz



Code	KNB008	KNB009	KNB010
Model	810/1	810/2	810/3
Measuring range (mPa·s (cPa))	10 – 100000	10 – 2 x10 ⁶	10 – 6x10 ⁶
Speed (rpm)	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s	1 mPa·s	1 mPa·s
Precision	± 1%	± 1%	± 1%
Spindles	0,1, 2, 3, 4	0,1, 2, 3, 4	0,1, 2, 3, 4
Repeatability	0.5 %	0.5 %	0.5 %
Power supply	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz



▶ KNB - Rotational viscosimeters

▶ Viscosimeters ST-2011



- 1| Measurement of relative and absolute viscosity.
 - 2| Possibility to change the S.I. to C.G.S. data.
 - 3| Automatic function check by scanning at different speeds, self-checking with audible and visual alarm in case of malfunction
 - 4| Gradual deceleration of the speed, stopping the unit, thus avoiding vibrations of the rod.
 - 5| Calibratable by the user.
 - 6| 18 speeds programmed from 0.3 to 100 r.p.m.
 - 7| Outputs: USB port. The user can program other different speeds on his own.
 - 8| Safety protection against mains voltage increases. 10 working memories.
 - 9| Temperature range: 0.0 °C to +100.0 °C (+32.0 °F to +212.0 °F).
- Resolution °C: 0.1 °C (0.1722 °F). Accuracy °C: ±0.1 °C. Probe type: pt 100.
 Direct reading in cp (mpa-s) on models STS-2011 L and R.
 Direct reading in poise (pa-s) on model STS-2011 H.
 Accuracy: ±1% full scale. Reproducibility: 0.2%.



Code	KNB501	KNB502	KNB503
Model	ST-2011 L	ST-2011 R	ST-2011 H
Rotors	L1 to L4	R2 to R7	R2 to R7
Measure range	20 à 20000000 cp	100 à 130000000 cp	200 à 1060000000 cp
Power	100/240v; 50/60 Hz		
Consume	15W		
Weight	5 Kg		

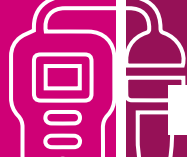
▶ Viscosimeter ST-2011



- 1| Reading of measurement parameters on L.C.D. screen:
 - Programmed speed: r.p.m.
 - Selected rod S.p.
 - Viscosity reading cp (mpa-s) or cSt
 - Full-scale proportion %
 - Sample temperature °C or °F
 - 2| Self-monitoring with audible and visual alarm in case of malfunctions
 - 3| Detection and indication of "out of scale" by means of a sound and visual system
 - 4| Gradual deceleration of the speed, by stopping the unit, thus avoiding vibrations of the rod
 - 5| Safety protection against mains voltage increases
 - 6| RS232 output for data transfer to a computer
 - 7| Accuracy: ±1% full scale, reproducibility: 0.2%.
 - 8| Temperature range: 0.0 °C to +100.0 °C (+32.0 °F to +212.0 °F).
- Resolution: 0.1 °C (0.1722 °F). Accuracy: ±0.1 °C (±0.1 °F).
 9| Basic equipment includes: shock-proof carrying case, stand with levelling, rod protector, rod holder, rod set according to model, temperature probe



Code	KNB504	KNB505
Model	ST-2020 L	ST-2020 R
Units	Centipoise (cp)	
Rotors	L1 à L4	R2 à R7
Speed range	1 -60 rpm	0,1 - 100 rpm
Plage de mesure	20 à 600000 cp	20 à 40000000 cp
Measure	0,0 à 100,0°C	
Power	115/230v à 12vDC 1.2A	
Consume	15W	
Weight	5 Kg	



▶ KNB - Rotational viscosimeters

▶ Micro-ubbelohde viscometer



- 1| Suitable for transparent liquids. Calibration certificate. Nominal overall length 290 mm.
- 4| Permanent ring marks in amber. Sample filling volume: 3 ml.

Code	Size	Nominal constant	Viscosity range in cSt
KNB507	I	0,01	0,4 to 6
KNB508	Ic	0,03	1,2 to 18
KNB509	II	0,1	4 to 60
KNB510	IIc	0,3	12 to 180
KNB511	III	1,0	40 to 800

▶ "U-tube reverse flow" viscometer



- 1| Suitable for opaque liquids. Calibration certificate.
- 2| Nominal overall length 275 mm. Permanent ring marks in amber

Code	Size	Nominal constant	Viscosity range in cSt
KBN512	1	0,003	0,6 to 3
KBN513	2	0,01	2 to 10
KBN514	3	0,03	6 to 30
KBN515	4	0,1	20 to 100
KBN516	5	0,3	60 to 300
KBN517	6	1,0	200 to 1000
KBN518	7	3,0	600 to 3000
KBN519	8	10	2000 to 10000
KBN520	9	30	6000 to 30000
KBN521	10	100	20000 to 100000
KBN522	11	300	60000 to 300000

▶ KNG - Accessories

▶ Accessories



Code	Description	Model
KNG011	Spindle N° 1	810
KNG012	Spindle N° 2	810
KNG013	Spindle N° 3	810
KNG014	Spindle N° 4	810
KNG015	Temperature probe viscosimeter	810

Code	Description
KNG504	Rotor R1 (for low viscosity samples)
KNG505	Set of spindles TL5 - TL6- TL7 for models L.
KNG506	Set of spindles TR8 - TR9 - TR10 - TR11 for models R and H.
KNG508	Temperature sensor suitable for LCP.

KNG - Accessories

▶ Displacement spiral helix adapter.



Code	Description
KNG503	Required for low fluidity samples.



▶ Universal viscometer support



Code	Description
KNG507	Made from PTFE with stainless steel AISI 304 support.



KZB - Dissolved oxygen

▶ Laboratory DO analyzer, 912/5



1] Desktop equipment for simultaneous measurement of OD and temperature, and calculation of biological oxygen demand (BOD).

2] For the control of water for consumption, urban and industrial waste water, production plans (fish farms, consumer drinks, preserves, etc.) or the water circuits of boilers and heating among many other applications.

3] Includes as standard a polarographic electrode with integrated temperature probe.

4] With automatic temperature compensation (CAT) in the range of 0-40°C

5] Calibration in 0% and 100% saturation OD, atmospheric pressure and salinity.

6] With RS-232 output for connection to PC or printer.

Code	KZB001
Measured range	
Concentration OD	0.00-19.99 mg/L
Saturation OD	0.0-200.0%
Temperature	-5.0/105.0° C
Electrical unit accuracy	
Concentration OD	± 0.10 mg/L
Saturation OD	± 1% (complete scale)
Temperature	± 0.3° C
Accuracy of the meter	
Concentration OD	± 0.30 mg/L (si T calibration - T measure < ± 3.0° C)
	± 0.50 mg/L (si T calibration - T measure < ± 15.0° C)
Saturation OD	± 5% (si T calibration - T measure < ± 3.0° C)
	± 10% (si T calibration - T measure < ± 15.0° C)
Temperature	± 0.5° C ± 1 digit (between 0.0-60.0° C)
	± 1° C ± 1 digit (out of range 0.0-60.0° C)
Stability	± 20 mg/L/1h
Reproducibility	0.20 mg/L
Range CAT	0.0-40.0° C (Tof solution)
Remaining current	≤ 0.10 mg/L
Response time	≤ 45 s (90% response 20.0° C)
Corection salinity range	0.0-40.0 g/L
Atm presion correction range	77.0-110.0 kPa
Environmental conditions	5.0-35.0° C; ≤ 80%
HR Memory	50 data groups
Dimensions	290x200x70 mm
Power	DC 9 V, 300 mA



KZB - Dissolved oxygen

Disolved oxygen D08500



- 1 | Minimal maintenance required. No preparation or maintenance solutions are required.
- 2 | Quick and easy to calibrate, although it is not necessary to do so before each use.
- 3 | No membrane, no electrolyte. This makes its useful life longer (more than 8000 hours of useful life)

Code	KZB004
Model	D08500
Disolved oxygen	
Range	0-200 %; 0 – 20.0 mg/L
Resolution	0.1/1 %, 0.01/0.1 mg/L (ppm)
Accuracy	±2% of lecture or ±2% of saturation; ±2% of lecture or ±0.2 mg/L (ppm)
Response time	< 30 s (25°C, 90% response)
Calibration	Zero oxygen and oxygen saturation
Compensation de Temp.	Automatic, 0 to 50°C
Compensation air pressure	Automatic 60 to 120 kPa
Compensation salinity	Automatic or manual, 0 to 45 ppt 0 to 45 ppt
Temperature	
Range	From 0 to 50 °C
Resolution	0.1 °C
Accuracy	± 0.5 °C

KZD - Multiparameter

Premium Series



- 1 | With different types of replaceable and interchangeable electrodes or probes.
- 2 | Automatic temperature compensation
- 3 | Compatibles probes: KDG014, KDG015, KDG016, KZD009

Code	KZD005
Parameters	pH/EC/°C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Temp coeficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt
Probe type	Platinum

Smart Series



- 1 | Smart analyzers of new generation: the Smart Series allows the registration of the measured parameters in mobile devices (Android or iOS) through the ZenTest application via Bluetooth 5.0
- 2 | Compatibles probes: KDG017, KDG018, KDG019, KZD010

Code	KZD006
Parameters	pH/EC/°C
Conductivity	
Range	0-200.0 μ S/cm; 0-2000 μ S/cm 0-20.00 mS/cm; 0-50.0°C
Resolution / Accuracy	0.1/1 μ S, 0.01 mS / ±1%Fs
Calibration	1 to 3 points
Temp coeficient	0.00 to 4.00% / °C
Salinity	0 to 10.00 ppt
Probe type	Platinum



KZD - Multiparameter

Series 850



1 | Supplied with pH and/or conductivity combination electrodes with builtin temperature probe

2 | Automatic temperature compensation. Compatible probes: KDG021, KZD017

Code	KZD007
Model	PC850
Parameters	pH/mV/Temp/Cond/TDS
pH	
Range	0-14
Resolution	0.1/0.01 pH
Accuracy	±0.01 pH ± 1 digit
Temp. compensation	0-100°C
Calibration	1 to 3 points (USA/NIST)
mV	
Range	±1000 mV
Resolution	1 mV
Accuracy	± 0.2% FS ± 1 digit
Conductivity	
Range	0 – 19.99 μS/cm; 20.0 – 199.9 μS/cm 200-1999 μS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μS, 0.01/0.1 mS
Accuracy	± 1.0% FS ± 1 digit
Temp. compensation	0 – 50°C
Calibration	1 to 3 points
Temperature	0 – 100°C



Series 820



1 | Automatic recognition of 15 types of pH standard solutions and 8 conductivity types.

2 | Compatible probes: KDG022/KZD019

Code	KZD008
Model	pH820
Parameters	pH/mV/ Cond/TDS/Sal/°C
pH	
Range	-2.000 – 19.999 pH
Resolution	0.1/0.01/0.001 pH
Accuracy	±0.002 pH ± 1 digit
Stabilité	±0.002 pH ± 1 digit/3hours
Temp. compensation	0-100°C
Calibration	1 to 5 automatic points
mV	
Range	± 1999 mV
Resolution	1 mV
Conductivity	
Range	0 – 19.99 μS/cm; 20.0 – 199.9 μS/cm 200-1999 μS/cm; 2 – 19.99 mS/cm 20 - 200.0 mS/cm
Resolution	0.01/0.1/1 μS, 0.01/0.1 mS
Accuracy	± 0.5% FS ± 1 digit
Constant electrode	0.01/0.1/1.0/10.0 cm-1
Temp. compensation	0 – 50°C
Calibration	1 to 4 points, automatic
Temperature	-10 – 110°C
Accuracy	±0.1 % FS ± 1 digit





KZD - Multiparameter

Conductivity electrodes



COD:KZD016



COD:KZD017



COD:KZD019



COD:KZD021



COD:KZD022



Code	KZD016	KZD017	KZD018	KZD019	KZD020
Model	2301-C	2401-C	2301T-F	2401T-F	DSJ-0.1-F
Range	0.5-200 mS/cm				20-200 µS/cm
Probe temp	No	No	Yes	Yes	-
Body	PC	Glass	PC	Glass	Glass
Dimens (mm)	ø12x155	ø12x145	ø12x155	ø12x 145	ø12x 155
Connector	BNC	BNC	BNC/RCA	BNC/RCA	BNC/RCA

Code	KZD021	KZD022
Model	2310-C	2310T-F
Range	20 – 2000 mS/cm	
Probe temp	No	Yes
Body	PC	PC
Dimens (mm)	ø 12x150	ø12x150
Connector	BNC	BNC/RCA



KZF - Turbidity

Portable turbidity



1 | They are designed to be used both in the laboratory and outdoors (protection class IP67), such as drinking water analysis, soft drink analysis, environmental controls, etc.

2 | They have a large color TFT screen, with support for graphic operation guides and text, and a bar that indicates the progress of the measurement.

3 | Turbidity measurement is performed by the nephelometric method of measuring light scattered at 90°, which provides greater accuracy at low measurement values. The TN meters follow the ISO 7027/ DIN EN 27027 standard, with an infrared light source of 860 nm wavelength (models TN400 and TN500i); or the U.S. EPA180.1 standard with a tungsten lamp emitting a white light source (model TN500).

4 | The 500 models have more advanced features such as 200 data groups and the USB output

Code	KZF001	KZF004	KZF005
Model	TN400	TN500	TN500i
Measuring method	90° scattering measurement		
Standard	ISO 7027	U.S. EPA 180.1	ISO 7027
Light source	860 nm LED	Tungsten lamp	860 nm LED
Detector	Yeslice photodiode		
Measuring range	0 – 1000 NTU		
Accuracy	± 2% of reading + stray light		
Repetibility	≤ ± 1 % / 0.02 NTU		
Calibration points	0 NTU, 20 NTU, 100 NTU, 400 NTU, 800 NTU		
Measuring mode	Normal	Normal / TruRead	Normal / TruRead
Parameter configuration	No	TruRead: 5/10/15/20 reading	
Languages	English	English / Spanish	English / Spanish
Data storage	No	USB	USB
Sample vials	18 mL		
Power supply	AA x 4	Lithium rechargeable 3,7V - AAx4	



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MAGNETIC STIRRERS COMPARATIVE CHART: digital and analogical models without heating



	Nahita-BLue 682 LBG002	MINI LBG011	RSLAB 11 NCA LBG010	RSLAB 1F LBG004	RSLAB 1 NC LBG003	RSLAB 11 NCD LBJ001
Model	Analogic	Analogic	Analogic	Analogic	Analogic	Digital
Speed	100/1600 rpm	300-200 rpm	0-1500 rpm	15/1500 rpm	0/1500 rpm	100/1500 rpm
Maximun vol	5 L	1,5 L	3 L	0,8 L	20 L	3 L
Plate	Metallic with ceramic coating	PET	Plastic	Resistant to chemicals	Ceramic	Plastic
Dim. plate	190x190 mm	120 mm	135 mm	90 mm	135 mm	135 mm
Dimensions	300x210x126 mm	150x145x50 mm	260x150x80 mm	175x120x15 mm	280x160x85 mm	160x150x80 mm

MAGNETIC STIRRERS COMPARATIVE CHART: digital and analogical with heating



	RSLAB 1C LBB003	NAHITA 690/1 LBB001	Nahita-blue 692 LBB002	Nahita-blue 692/1 LBD001
Model	Analogic	Analogic	Analogic	Digital
Display	-	-	-	LED
Speed	0/1500 rpm	0/2000 rpm	16000 rpm	1600 rpm
Maximun vol	20 L	2 L	5 L	5 L
Temp. range	RT 340 °C	RT 180 °C	RT 380 °C	RT 350 °C
Safety temp	350 °C	-	-	-
Plate	Ceramic	Metallic, EPOXI coated	Metallic, ceramic coated	Metallic, ceramic coated
Dim. plate	135 mm	120x120 mm	190x190 mm	190x190 mm
Dimensions	280x160x85 mm	200x120x90 mm	330x195x125 mm	300x210x126 mm
Probe	NOT admitted	NOT admitted	NOT admitted	PT 1000



	RSLAB 11C LBD005	RSLAB 2C LBD002	RSLAB 3C LBD003	RSLAB 4C LBD004
Model	Digital	Digital	Digital	Digital
Display	LED	LCD	LED	LCD
Speed	100/1500 rpm	100/1500 rpm	0/1500 rpm	100/1500 rpm
Maximun vol	3 L	20 L	10 L	20 L
Temp. range	RT 280 °C	RT 340 °C	RT 550 °C	RT 550 °C
Safety temp	320 °C	360 °C	580 °C	580 °C
Plate	Stainless steel	Ceramic	Glass ceramic	Glass ceramic
Dim. plate	135 mm	135 mm	184x184 mm	184x184 mm
Dimensions	260x150x80 mm	260x160x85 mm	360x215x112 mm	360x215x112 mm
Probe	PT 1000	PT 1000	PT 1000	PT 1000



▶ LBB - With heating, analogical

▶ Analogic with heating Nahita 690/1

Nahita

- 1| Epoxy coated metal body.
- 2| Supplied with support (rod, nut and clamp) and magnet for stirring.

Code	LBB001
Speed range	10-2000 rpm
Maximum stirring volume	2 L
Temperature range	RT - 180°C
Plate material	Metallic epoxy coated
Plate size	120x120 mm
Aprox. dimensions	200x120x90 mm
Aprox. weight.	2 Kg



▶ With heating Nahita-Blue 692

nahita
blue

- 1| Supplied with rod, clamp for holding electrode or thermometer, and magnet for stirring.
- 2| Speed and heating indicator lamps

Code	LBB002
Speed máxima	1600 rpm
Maximum stirring volume	5 L
Temperature range	RT - 380°C
Plate material	Metallic with ceramic coating
Plate size	190 x 190 mm
Aprox. dimensions	330 x 195 x 125 mm
Aprox. weight.	4,2 Kg



▶ With heating RSLAB-5C, 10 posts

RS.Lab

- 1| Internal control of the uniformity of stirring according to the number of posts used. Brushless motor, maintenance-free
- 2| Electronic control ensuring constant speed during sample change.
- 3| Protection against overheating.

Code	LBB004
Speed range	0-1100 rpm
Maximun volume / puesto	0,4 L
Temperature range	RT - 120°C
Safety temperature	140°C
Plate material	Silicone coating
Dimensions de la placa	182x450 mm
Aprox. dimensions	182x 552x65 mm
Aprox. weight	3,2 Kg



▶ With heating RSLAB-1C

RS.Lab

- 1| Analogic speed and time control, constant speed even with load changes. Brushless motor free of maintenance.
- 2| Protection for overheating.

Code	LBB003
Speed range	0-1500 rpm
Maximum stirring volume	20 L
Temperature range	RT - 340°C
Plate material	Ceramic
Plate diameter	135 mm
Aprox. dimensions	280 x 160 x 85 mm
Aprox. weight	2,8 Kg



LBB - With heating, analogical

Stirrers AGIMATIC N and AGIMATIC E



- 1 | Switch on button with indicator lamp for heating and for stirring speed.
- 2 | Electronic stir speed control.
- 3 | *Electronic heater energy control from 0-100%, synchronised with an indicator lamp that functions when the plate is hot. (code LBB500)
- 4 | **Electronic temperature control of the heater plate from 50 °C to 350 °C synchronised with an indicator lamp that functions when the plate is hot. (code LBB501)

Code	LBB500*	LBB501**
Model	AGIMATIC N	AGIMATIC E
Controller	Analogic	
Volume max.	10 L	
Heater	Yes	
Controller type	Electronic/Energy	Electronic/Temperature
Temperature range	350 °C	
Range r.p.m	60 / 1600	
Rapid overview	INOX	
Plate Ø	14.5	

Stirrer AGIMAN



- 1 | Switch on button with indicator lamp for heating and for stirring speed.
- 2 | Electronic stir speed control.
- 3 | Electronic heater energy control from 0-100%, synchronised with an indicator lamp that goes on when the mantle is hot.
- 4 | Illuminated heater indicator when the mantle is "on".

Code	LBB502
Maximum stir L	Up to 2
Maximum volume	1,5 L
Exterior dimensions	14,5 x 19 x 26 cm
Weight	3,5 Kg

Stirrers MULTIMATIC 5-N and 9-N



- 1 | Mains illuminated power switch.
- 2 | Individual speed control for each position.
- 3 | Electronic heater energy control from 0-100% synchronised with an indicator lamp when the heater is on.

Code	LBB503	LBB504
Model	MULTIMATIC 5-N	MULTIMATIC 9-N
Ext. dimensions	16 x 28 x 35 cm	
Plate Width/Depth	25 x 25 cm	
Max. temperature	200 °C	
Speed control	Up to 1600 r.p.m.	
Max volume	5 x 600 ml	9 x 300 ml
Heater power	680 W	
Total power	700 W	
Weight	12 Kg	14 Kg



LBD - With heating, digital

Digital magnetic stirrer w/heating, 692/1



1 | Protection against overheating. Supplied with rod and clamp, temperature probe and stirring magnet. Probe not included

Code	LBD001
Display	LCD backlit
Speed máxima	1600 rpm
Maximum stirring volume	5 L
Temperature range	RT - 350°C
Plate material	Metallic, ceramic coated
Plate size	190 x 190 mm
Aprox. dimensions	300 x 210 x 126 mm
Aprox. weight	4,2 Kg



Digital stirrer heating with ring RSLAB-2C



1 | With sealing ring that protects the body of the equipment. Does not include support kit. Maintenance-free brushless motor. Control via PC and RS232 interface. Special StirPC software free on request.

Code	LBD002
Display	LCD
Speed range	100-1500 rpm
Maximum stirring volume	20 L
Rango de temperatura	RT - 340°C
Temperature range	360°C
Plate material	Ceramic
Plate diameter	135 mm
Aprox. dimensions	280 x 160 x 85 mm
Aprox. weight	2,8 Kg



Stirrer with heating LED RSLAB-3C



1 | Support kit not included. Maintenance-free brushless motor

Code	LBD003
Display	LED
Speed range	0-1500 rpm
Maximun volume	10 L
Temperature range	RT - 550°C
Temperature range	580°C
Plate material	Glass ceramic
Plate dimensions	184x184 mm
Aprox. dimensions	360 x 215 x 112 mm
Aprox. weight.	4,5 Kg



Digital stirrer with heating RSLAB-4C



Code	LBD004
Display	LCD
Speed range	100-1500 rpm
Maximun volume	20 L
Temperature range	RT - 550°C
Temperature range	580°C
Plate material	Glass ceramic
Plate dimensions	184x184 mm
Aprox. dimensions	360 x 215 x 112 mm
Aprox. weight.	5,3 Kg



▶ LBD - With heating, digital

▶ Digital stirrer with heating RSLAB-11C



Code	LBD005	LBD006
Display	LED	
Speed range	200 - 1500 rpm	
Temperature range	RT - 280°C	
Temperature range	320°C	
Maximum volume	3 L	
Plate diameter	135 mm	
Plate material	Metallic, ceramic coated	Stainless steel
Aprox. dimensions	260 x 150 x 80 mm	
Aprox. weight.	1,8 Kg	

▶ Stirrer Agimatic-ED



- 1 | Digital display indicating stir speed or temperature.
- 2 | Push button, parameter selector, Stir speed or temperature.
- 3 | Push button, increase parameter value. Push button, decrease parameter value.
- 4 | Indicator lamp, safety thermostat "on". Push button Stop-Start

Code	LBD501
Max. stir litres	Up to 10 L
Dimensions	14,5 x 19 x 26 cm
Power	550 W
Weight	3,5 Kg

▶ Stirrer Agimatic REV-TFT and REV-TFT-C



- 1 | Probe position indicator.
- 2 | RPM, temperature and time reading. Increase/decrease parameters value.
- 3 | Silumin upper plate covered by aisi 304 stainless steel (code LBD503), and silumin upper plate with ceramic surface (code LBD504).

Code	LBD503	LBD504
Model	REV-TFT	REV-TFT-C
Max. stir litres	Up to 10 L	
Dimensions	14,5 x 19 x 26 cm	
Power	550 W	
Weight	3,5 Kg	

▶ Stirrer Agimatic-ED-C



- 1 | Digital display indicating stir speed or temperature.
- 2 | Push button, parameter selector, Stir speed or temperature.
- 3 | Indicator lamp, safety thermostat "on". Push button Stop-Start.

Code	LBD502
Max. stir litres	Up to 10 L
Dimensions	14,5 x 19 x 26 cm
Power	550 W
Weight	3,5 Kg

▶ LBG - Without heating, analogical

▶ Magnetic stirrer, 1M - Mini

RS Lab

- 1| With rod and electrode clamp.
- 2| Polyethylene Terephthalate (PET) plate with high chemical resistance.
- 3| High-performance, brushless motor.
- 4| Silent functioning.

Code	LBG011
Speed range	300 - 2000 rpm
Maximum volume	1,5 L
Plate diameter	120 mm
Plate dimensions	184 mm
Aprox. weight	0,3 Kg



▶ Magnetic stirrer, Nahita Blue 682

nahita
blue

- 1| Supplied with rod, clamp and magnet for shaking
- 2| Speed Indicator Pilot

Code	LBG002
Speed range	100 - 1600 rpm
Maximum stirring volume	5 L
Plate material	Metallic, ceramic coated
Plate size	190 x 190 mm
Aprox. dimensions	300 x 210 x 126 mm
Aprox. weight	5 Kg



▶ Analogical stirrer RSLAB-1NC

RS Lab

- 1| Motor with electronic speed control, constant speed even with load change.
- 2| Maintenance-free motor with brushes

Code	LBG003
Speed range	0-1500 rpm
Maximum stirring volume	20 L
Plate material	Ceramic
Plate diameter	135 mm
Aprox. dimensions	280 x 160 x 85 mm
Aprox. weight	2,8 Kg



▶ Magnetic stirrer RSLAB-1F (flat design)

RS Lab

- 1| Brushless motor
- 2| With anti-reverse system. Only 15 mm thick. IP21 protection.

Code	LBG004
Speed range	15-1500 rpm
Maximum stirring volume	0,80 L
Max. stirring weight	2 kg
Operation light	Yes
Plate diameter	90 mm
Dimensions (LxAxH)	175 x 120 x 15 mm
Weight	0,30 Kg



▶ LBG - Without heating, analogical

▶ Analogical stirrer RSLAB-5NC, 10 positions

RS Lab

1 | Internal control of the uniformity of the agitation according to the number of positions used. Maintenance-free brushless motor.

Code	LBG005
Speed range	0-1100 rpm
Puestos de agitación	10
Max volume / positions	0,4 L
Plate material	Silicone coating
Plate size	182x450 mm
Aprox. dimensions	182x552x65 mm
Aprox. weight.	3,2 Kg

▶ Analogical stirrer RSLAB-11NCA

RS Lab

1 | Nylon + GF housing, with good resistance to weak acids and bases.

Code	LBG010
Speed range	10 - 1500 rpm
Maximun volume	3 L
Plate material	Nylon + GF
Plate diameter	135 mm
Aprox. dimensions	260 x 150 x 80 mm
Aprox. weight.	1,8 Kg

▶ Magnetic stirrer "AGIMICRO"



1 | Maximum stir volume: 2 litres. Adjustable stir speed from 40 to 1400 r.p.m.
2 | Excellent chemical resistance.

Code	LBG504
Dimensions	Ø 12 x 5
Power source	230 V 1 W
Weight	0.5 Kg

▶ Stirrer AGIMATIC-S



Code	LBG501
Model	AGIMATIC-S
Heating	No
Max. stir litres	Up to 10 L
Dimensions	14,5 x 19 x 26 cm
Power	90 W
Weight	3,5 Kg

▶ LBG - Without heating, analogical

▶ Stirrers MULTIMATIC 5-S and MULTIMATIC 9-S



- 1| Mains illuminated power switch. Individual speed control for each position.
- 2| Electronic heater energy control from 0-100% synchronised with an indicator lamp when the heater is on.

Code	LBG502	LBG503
Model	MULTIMATIC 5-S	MULTIMATIC 9-S
Ext. dimensions	11 x 28 x 35 cm	
Plate Width/Depth	28 x 33 cm	
Speed control	Up to 1600 r.p.m.	
Max volume	5 x 600 ml	9 x 300 ml
Power	16 W	27 W
Weight	7 Kg	9 Kg



▶ LBJ - Without heating, digital

▶ Digital stirrer RSLAB 11 NCD



- 1| Nylon + GF housing, with good resistance to weak acids and bases.

Code	LBJ001
Display	LED
Speed range	10 - 1500 rpm
Maximum volume	3 L
Plate material	Nylon + GF
Plate diameter	135 mm
Aprox. dimensions	260 x 150 x 80 mm
Aprox. weight.	1,8 Kg



▶ Magnetic stirrer AGIMATIC H















- 1| Electronic speed control from 50 to 980 r.p.m, will maintain a constant stir speed irrespective of the liquid viscosity.
- 2| Digital speed display.
- 3| AISI 304 stainless steel top plate with an epoxy coated metal case.

Code	LBJ500	LBJ501
Model	AGIMATIC HS	AGIMATIC HL
Speed control	50 to 980 rpm	
Maximum stir	up to 25 L	up to 60 L
Dimensions	12x28x34 cm	14x44x38 cm
Power	35 W	40W
Weight	8 Kg	12 Kg












LBM - Accessories

CHART 1: 'Accessoires for magentic stirrers models RSLAB 11C, 1C, 2C, 3C, 4C, MULTIMATIC and AGIMATIC'

	Code	Description	Model						
			MULTIMATIC	AGIMATIC	11C	1C	2C	3C	4C
	LBM002	Temperature probe PT1000			■		■	■	■
	LBM005	Temperature probe PT1000 with glass coating			■			■	■
	LBM003	Support kit for probe PT1000						■	
	LBM004	Support kit for probe PT1000			■				
	LBM006	Adapter for round bottom flasks 50 mL			■	■		■	
	LBM007	Adapter for round bottom flasks 100 mL			■	■		■	
	LBM008	Adapter for round bottom flasks 250 mL			■	■		■	
	LBM009	Adapter for round bottom flasks 500 mL			■	■		■	
	LBM010	Poly-block red stand with 11 holes for 4 mL tubes			■	■	■	■	■
	LBM011	Poly-block purple stand with 4 holes for 20 mL tubes			■	■	■	■	■
	LBM012	Poly-block blue stand with 4 holes for 30 mL tubes			■	■	■	■	■
	LBM013	Poly-block black stand with 4 holes for 40 mL tubes			■	■	■	■	■
	LBM014	Poly-block green stand with 6 holes for 80 mL tubes			■	■	■	■	■

LBM - Accessories

CHART 1: 'Accessoires for magnetic stirrers models RSLAB 11C, 1C, 2C, 3C, 4C, MULTIMATIC and AGIMATIC'

	Code	Description	Model						
			MULTIMATIC	AGIMATIC	11C	1C	2C	3C	4C
	LBM015	Poly block yellow stand with 4 holes with 16 mL tubes			■	■	■	■	■
	LBM016	Blue support for 4 poly-block stands			■	■	■		
	LBM017	Blue ring for 4 poly-block stands			■	■	■		
	LBM018	Protective cover resistant up to 135°				■	■		
	LBM500	Transparent metacrylate tank. Volume of 25 liters	■						
	LBM501	Aluminium coated teflon bath 2 L		■					
	LBM502	Aluminium coated teflon bath 4 L		■					
	LBM503	Probe PT 100 magnetic stirrer		■					
	LBM504	Adapter round flask, 250 mL		■					
	LBM505	Adapter round flask, 500 mL		■					
	LBM506	Adapter round flask, 1000 mL		■					

■ = Accesorio **compatible** con el equipo indicado

LDB - Cylindrical magnets

▶ Stirring bars PTFE



Kartell

Code	Diameter	Lenght
LDB019	3 mm	8 mm
LDB020	3 mm	6 mm
LDB021	4,5 mm	11,5 mm
LDB022	4,5 mm	15 mm
LDB023	6 mm	19,5 mm
LDB024	6 mm	24,5 mm
LDB025	6 mm	30 mm
LDB027	7 mm	50 mm
LDB026	6 mm	34,5 mm
LDB028	8 mm	40 mm
LDB029	8 mm	45 mm
LDB030	9,5 mm	60 mm
LDB031	9,5 mm	70 mm

▶ Stirring bars "economy" PTFE



Kartell

Code	Diameter	Lenght
LDB015	3 mm	12 mm
LDB016	8 mm	25 mm
LDB017	8 mm	40 mm
LDB018	8 mm	50 mm



nahita
blue

1| Excellent chemical and physical resistance. Withstands up to 275°C.

Code	Diameter	Lenght
LDB001	3 mm	6 mm
LDB002	4 mm	10 mm
LDB003	5 mm	15 mm
LDB004	7 mm	20 mm
LDB005	8 mm	25 mm
LDB006	8 mm	30 mm
LDB007	8 mm	35 mm
LDB008	8 mm	40 mm
LDB009	8 mm	45 mm
LDB010	8 mm	50 mm
LDB011	8 mm	55 mm
LDB012	8 mm	60 mm
LDB013	8 mm	70 mm
LDB014	10 mm	80 mm

▶ Magnetic stirring-bar polygon



VITLAB

Code	Diameter	Lenght
LDB501	2 mm	5 mm
LDB502	2 mm	7 mm
LDB503	3 mm	8 mm
LDB504	3 mm	10 mm
LDB505	3 mm	13 mm
LDB506	4 mm	12 mm
LDB507	5 mm	12 mm
LDB508	6 mm	15 mm
LDB509	7 mm	20 mm
LDB510	7 mm	25 mm
LDB511	7 mm	30 mm
LDB512	7 mm	40 mm
LDB513	7 mm	50 mm
LDB514	7 mm	60 mm



LDB - Cylindrical magnets

▶ Magnetic stirring-bar polygon

VITLAB

Code	Diameter	Lenght
LDB515	10 mm	70 mm
LDB516	10 mm	80 mm
LDB517	27 mm	57 mm
LDB518	27 mm	108 mm
LDB519	27 mm	159 mm

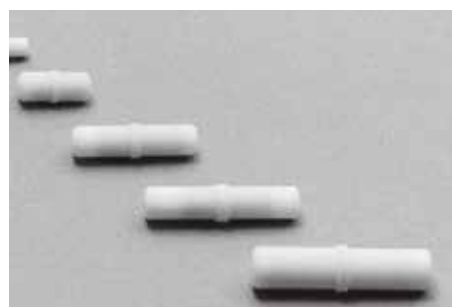


▶ Magnetic stirring-bar polygon



1| Encased in PTFE with pivot ring, temperature resistant to +275 °C.

Code	Diameter	Lenght
LDB521	4 mm	12 mm
LDB522	7 mm	20 mm
LDB523	8 mm	32 mm
LDB524	27 mm	108 mm
LDB525	27 mm	159 mm
LDB526	10 mm	80 mm
LDB527	27 mm	57 mm
LDB528	27 mm	108 mm
LDB529	27 mm	159 mm



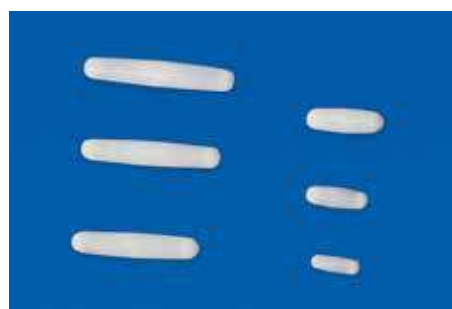
LDD - Oval magnets

▶ PTFE magnetic stirrer bar

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blue

1| Excellent chemical and physical resistance. Withstands up to 275°C.

Code	Lenght	Diameter
LDD001	10 mm	5 mm
LDD002	15 mm	7 mm
LDD003	18 mm	7 mm
LDD004	25 mm	9 mm
LDD005	30 mm	10 mm
LDD006	25 mm	12 mm
LDD007	35 mm	12 mm
LDD008	35 mm	15 mm
LDD009	50 mm	8 mm
LDD017	20 mm	40 mm
LDD018	50 mm	20 mm


Kartell

Code	Diameter	Lenght
LDD010	10 mm	20 mm
LDD011	12 mm	25 mm
LDD012	16 mm	30 mm
LDD013	16 mm	35 mm
LDD014	20 mm	40 mm
LDD015	20 mm	50 mm
LDD016	20 mm	64 mm



LDD - Oval magnets

▶ Magnetic stirring-bar oval



Code	Diameter	Lenght
LDD501	5 mm	10 mm
LDD502	6,5 mm	16 mm
LDD503	9,5 mm	19 mm
LDD505	16 mm	32 mm
LDD506	16 mm	38 mm
LDD508	20 mm	50 mm

▶ Magnetic stirring-bar oval



Code	Diameter	Lenght
LDD509	16 mm	30 mm
LDD510	20 mm	40 mm

LDG - Octagonal magnets

▶ Stirring bars with ring PTFE



1 | Product suitable for food contact.

Code	Lenght	Diameter
LDG008	20,5 mm	6,5 mm
LDG009	25 mm	6 mm
LDG010	35 mm	6,5 mm
LDG011	30 mm	6 mm
LDG012	45 mm	7,5 mm
LDG013	50,5 mm	7,5 mm
LDG014	60 mm	9,5 mm
LDG015	70 mm	9,5 mm



1 | Excellent chemical and physical resistance. Withstands up to 275°C.

Code	Diameter	Lenght
LDG001	8 mm	15 mm
LDG002	8 mm	20 mm
LDG003	8 mm	25 mm
LDG004	8 mm	30 mm
LDG005	8 mm	38 mm
LDG006	8 mm	40 mm
LDG007	8 mm	50 mm
LDG016	8 mm	75 mm



▶ LDG - Octogonal magnets

▶ Magnetic stirring-bar octagon

VITLAB

Code	Diameter	Lenght
LDG501	8 mm	64 mm
LDG502	9,5 mm	64 mm
LDG503	9,5 mm	51 mm
LDG504	10 mm	38 mm
LDG506	10 mm	13 mm
LDG507	8 mm	51 mm
LDG508	8 mm	41 mm
LDG509	8 mm	38 mm
LDG510	8 mm	29 mm
LDG511	8 mm	26 mm
LDG512	8 mm	22 mm
LDG513	8 mm	16 mm
LDG514	8 mm	13 mm
LDG515	10 mm	25 mm
LDG516	8 mm	13 mm



▶ LDJ - Cross, star shape magnets

▶ Crosshead stirring bars PTFE

Kartell

Code	Diameter	Lenght
LDJ001	10 mm	8 mm
LDJ002	14 mm	10 mm
LDJ003	17 mm	13 mm


VITLAB

Code	Dimensions
LDJ502	19 x 19 mm
LDJ503	26 x 26 mm
LDJ504	32 x 32 mm
LDJ505	38 x 38 mm



▶ Disc stirring bars PTFE

Kartell

Code	Diameter	Lenght
LDJ004	10 mm	6 mm
LDJ005	20 mm	10 mm
LDJ006	30 mm	12 mm



▶ LDJ - Cross, star shape magnets

▶ Star head spin bar



Code	Dimensions
LDJ506	25 x 15 mm
LDJ507	40x17 mm

▶ LDM - Triangle magnets

▶ Triangular stirring bars



Kartell

1 | Product suitable for food contact.

Code	Dimensions
LDM001	5,5x12 mm
LDM002	7,5x25 mm
LDM003	8x34 mm
LDM004	10,5x50 mm

▶ PTFE



Code	Dimensions
LDM501	10 x 35 mm
LDM502	14 x 40 mm
LDM503	14 x 45 mm
LDM504	14 x 55 mm



VITLAB

Code	Dimensions
LDM505	9,5 x 13 mm
LDM506	9,5 x 15 mm
LDM507	12,5 x 44 mm
LDM508	12,5 x 51 mm



LDP - Other magnets

▶ Stirrers for ballons PTFE

Kartell

1 | PTFE coating.

Code	Lenght	For flasks
LDP001	64 mm	0,5 L
LDP002	75 mm	1 L
LDP003	105 mm	2/3 L
LDP004	122 mm	5 L
LDP005	149 mm	12/22 L



▶ Stirring bar retrievers

Kartell

1 | PTFE coating.

Code	Lenght
LDP006	300 mm
LDP007	240 mm



▶ Magnetic balls

Kartell

1 | PTFE coating.

Code	Diameter
LDP008	12,57 mm



▶ Double ended stirring bars

Kartell

1 | PTFE coating.

Code	Diameter	Lenght
LDP009	20 mm	35 mm
LDP010	20 mm	55 mm



▶ Stirrer bar retriever

nahita
blue

1 | PTFE coating.

Code	Lenght	Tip Ø
LDP011	350 mm	10 mm
LDP013	150 mm	9 mm
LDP014	250 mm	9 mm



LDP - Other magnets

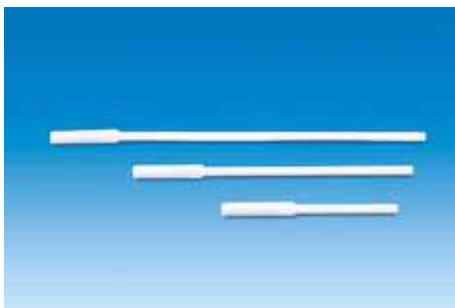
▶ Stirring magnets



Includes:
 - 14 cylindrical stirring magnets 6x4 mm, 10x4 mm, 15x5 mm, 20x7 mm, 25x8 mm, 30x8 mm, 35x8 mm, 40x8 mm, 45x8 mm, 50x8 mm, 55x8 mm, 60x10 mm, 70x10 mm, 80x10 mm
 - 1 oval stirring magnet 50x8 mm
 - 3 octogonal stirring magnets 20x6.5 mm, 30x7.5 mm, 40x10 mm

Code	Description
LDP012	Box with 18 various stirring magnets

▶ Magnetic stirring bar retrievers, PTFE



1 | With PTFE encapsulated magnetic core

Code	Lenght
LDP501	150 mm
LDP502	250 mm
LDP503	350 mm

▶ Magnetic stirring bar retrievers, PE



1 | With a permanent magnet on one end and holding ring on the other one.
 2 | Magnet is completely encapsulated in a PE mantle

Code	Lenght
LDP504	450 mm

▶ Magnetic stirring bar retrievers, flexible, PTFE



1 | Due to the high flexibility, the magnet stir bar can be retrieved from inaccessible locations, e.g., from the water trap in a laboratory sink

Code	Lenght
LDP505	330 mm

LDP - Other magnets

▶ Magnetic stirring bars, barbell, PTFE



1 | With permanent magnet AlNiCo V core. Excellent centering due to the small contact surface, and effective mixing.

Code	Length
LDP506	35 mm
LDP507	55 mm



▶ Stir Bar "ROTORPAT".



1 | Encased in PTFE useable up to temperatures of 275 °C.

Code	Dimensions
LDP508	10 Ø x 32 mm



▶ Stir-bar retriever.



1 | Flexible, encased in PTFE.

Code	Length
LDP509	280 mm



▶ Box of 17 assorted stir bars



1 | Box with 17 assorted stir-bars encased in temperature resistant PTFE for temperatures up to 275 °C.

Code	LDP510
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▶ Floating magnetic stir-bar "IMANFLOTER"



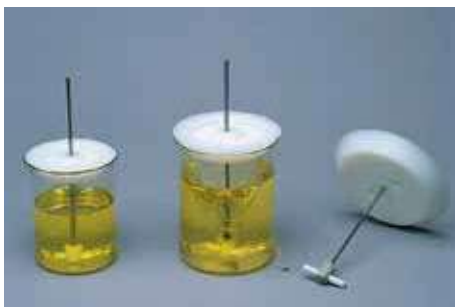
1 | Encased completely in PTFE. Dismountable structure, autoclavable.

Code	Total length	Stir bar length
LDP511	50 mm	39 mm
LDP512	60 mm	45 mm



LDP - Other magnets

▶ Concentric stir-bar with beaker cover "CENTRIMAN"

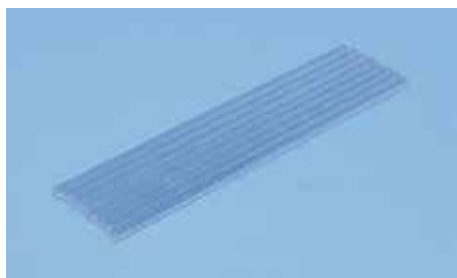


1 | Encased in PTFE with an adjustable axis bar made of AISI 304 stainless steel.

Code	Volume	Lenght
LDP513	100 - 500 mL	32 mm
LDP514	500 - 1000 mL	50 mm
LDP515	1000-2000 mL	55 mm

LDR - Stirring rods

▶ Stirring rod, solid glass



1 | Totally inert and with burned out ends
2 | Suitable for stirring all types of solutions

Code	Shape	Diameter	Lenght
LDR001	Helicoid	5 mm	200 mm
LDR002	Straight	5 mm	200 mm
LDR003	Straight	5 mm	300 mm
LDR004	Straight	6 mm	400 mm
LDR005	Straight	6 mm	500 mm

▶ Stirring rods, PVC



Code	Lenght	Diameter
LDR007	250 mm	7 mm
LDR008	300 mm	7 mm
LDR009	350 mm	7 mm

▶ Policemen stirring rods



1 | Spatula shaped ends.
2 | Made of polypropylene (PP).

Code	Lenght
LDR010	244 mm

LGB - Vibrating mixers for tubes

Vortex mixer for multiple tubes 681/10



1 | For solutions contained in different recipients or several tubes at the same time.

Code	LGB001
Speed	2600 RPM
Shaking movement	Vibratory
Shaking amplitude	6,2 mm
Operation type	Continuous at fixed speed
Platform diameter	100 mm
Aprox. dimensions	150 x 130 x 140 mm
Aprox. weight.	2,3 Kg



Multi-function vortex mixer 681/22



- 1 | Includes eight easily interchangeable accessories that allow shaking different types of containers
- 2 | Display LCD backlit.
- 3 | Possibility to program the time in seconds, minutes or hours

Code	LGB002
Speed	300-3000 rpm
Shaking movement	Orbital
Operation type	Continuous or by contact
Maximun shaking weight	0,5 Kg
Aprox. dimensions	210 x 150 x 65 mm
Aprox. weight	2.5 Kg



NOTE: Includes accessories, see table below



LGG001 Standard top, for test tubes and small recipients Ø 50 mm.



LGG005 Tube adapter, perforable as need



LGG002 Circular support, for foam accessories



LGG006 Adapter for 14 tubes of 10 mm



LGG003 Support for one microplate



LGG007 Adapter for 6 tubes of 12 mm



LGG004 Microdisk type adapter



LGG008 Adapter for 4 tubes of 16 mm

LGB - Vibrating mixers for tubes

Vortex mixer, RSLAB-6 PRO



RS Lab

- 1 | Simple click adapter fixing system.
- 2 | Robust housing, metal base and specially designed rubber feet to absorb vibration.
- 3 | Eccentric wheel with bearings. Standard top LGG016 included with equipment

Code	LGB003
Speed range	0-2500 rpm
Shaking movement	Orbital
Shaking amplitude	4 mm
Operation type	Continuous / by contact
Aprox. dimensions	127 x 130 x 160 mm
Aprox. weight	3,5 Kg

Shaker vibramax-100



COMECTA

- 1 | Wear-free continuous performance. Supplied with platform and rubber pad with edge. 0-50 °C, 80% relative humidity.

Code	LGB500
Timer	From 0 to 120' with alarm
Shaking orbital diameter mm	3 mm
Shaking frequency r.p.m.	Regulable from 150 to 1.350
Dimensions cm	12,5/24,5/31
Platform cm	22x22
Power w	31 W

Shaker vibramax-110



COMECTA

- 1 | Wear-free continuous performance. Supplied with platform and rubber pad with edge. 0-50 °C, 80% relative humidity.

Code	LGB501
Timer	From 0 to 120' with alarm
Shaking orbital diameter mm	1,5 mm
Shaking frequency r.p.m.	Regulable from 150 to 2500
Dimensions cm	14/24/31
Platform cm	14/14
Power w	46 W

Shaker Reax-top and Reax control



COMECTA

- 1 | Approved ambient temperature: 5 - 40 °C at 85% relative humidity.
- 2 | Overload protected motor with automatic switch-off and activation.

Code	LGB502	LGB503
Model	Reax top	Reax control
Accuracy control	Standard	± 2 %
Shaking	Circular y vibratoria	
Shaking frequency	0-2500 r.p.m	
Shaking orbital diameter	5 mm.	
Silent	< 54 dBA.	
Power	51 W	

LGB - Vibrating mixers for tubes

▶ Rocking Mixer "Vibromatic"



- 1| Electronic control from 100 to 950 oscillations per minute. (1900 vibrations) and timer from 1 to 999 minutes or continuous operation.
- 2| Easily detachable arms equipped with 8 clamps

Code	LGB505
Oscilations	100-950
Maximun capacity	4 Kg
Height / Width /Depth	23x77x27
Power	34 W
Weight	11 Kg



▶ Shaker MULTI-REAX



- 1| Motor protegido por sobrecarga, con autodesconexión y activación automática.
- 2| La última generación con control digital para la mezcla más perfecta y estable por efecto vórtex.

Code	LGB504
Shaking	Vibratory circular.
Shaking frecuency	150 a 2000 r.p.m
Shaking orbital diameter	3 mm.
Timer	0 a 999 min
Maximum load capacity	1,5 Kg
Power	50 W.
Medidas	17 x 27 x 41 cm



▶ Mixer shaker for tubes "Vortex-Vib"



- 1| With stirring selector by pressure, or fixed in continuous.
- 2| Starting switch, 4 interchangeable platforms for multiple tubes and 50 ml flasks.
- 3| Base with 4 suction cups for full adherence.

Code	LGB506
Frecuency	2800 r.p.m.
Height / Width /Depth	18x12,5x18
Power	50 W
Weight	4 Kg



LGD - For microplates

▶ Shakers for platelet bags "APL-54" and "APL-108"



- 1| Epoxy covered case with treated aluminium platform with AISI 304 stainless steel racks for bags.
- 2| Programable stirring automatic restart and pause device for bags handling (30 ± 90 seconds). Acoustic alarm in case of power failure.

Code	LGD500	LGD501
Model	APL-54	APL-108
Nº of shelves	9	18
Capacity bags	54	108
Height / Width / Depth	40x44x39 cm	40x84x38 cm
Power	50 W	
Voltage	110 / 230 50/60 Hz	
Weight	22Kg	35 Kg



▶ LGD - For microplates

▶ RSLAB-12



1 | Adapter for 1 micro plate included. Other compatible adapters available.

Code	LGD001
Speed range	0-1500 rpm simple microplate 0-1000 rpm microplate double
Shaking movement	Orbital
Orbital shaking diameter	4,5 mm
Operation type	Continuous
Max shaking weight	0,5 Kg
Aprox. dimensions	260 x 150 x 80 mm
Aprox. weight	3 Kg

▶ Shakers TITRAMAX 100 and 101



1 | Epoxy covered case with treated aluminium platform with AISI 304 stainless steel racks for bags.
2 | Programable stirring with automatic restart and pause device for bag handling (30 ± 90 seconds). Alarm in case of power failure.

Code	LGD502	LGD503
Model	TITRAMAX 100	TITRAMAX 101
Shaking frequency	regulable from 150 to 350 r.p.m.	
Timer	form 0 to 120' with alarm	
Shaking orbital diameter	3 mm	1,5 mm
Power W	31 W	
Platform	22x22 cm	
Medidas	12,5/24,5/31 cm	12,5/32/75,5
Weight	5,5 Kg	













▶ LGG - Accessories

▶ CHART 3: 'Accessories stirrers models RSLAB 6PRO, RSLAB 12, Reax-Top, Multi-Reax and AG-200B

	Code	Description	Model				
			RSLAB 12	RSLAB 6PRO	Reax-Top	Multi-Reax	AG-200B
	LGG009	Universal top for tube adapters. Continuous operation.				<input checked="" type="checkbox"/>	
	LGG010	Adapter for 48 PCR microtubes 6 mm.		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	LGG011	Adapter for 15 round bottom tubes 10 mm		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
	LGG012	Adapter for 12 round bottom tubes 12 mm.		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

▶ LGG - Accessories

▶ **CHART 3:** 'Accessories stirrers models RSLAB 6PRO, RSLAB 12, Reax-Top, Multi-Reax and AG-200B

	Code	Description	Model				
			RSLAB 12	RSLAB 6PRO	Reax-Top	Multi-Reax	AG-200B
	LGG013	Adapter for 8 round bottom tubes 16 mm		<input type="checkbox"/>		<input type="checkbox"/>	
	LGG014	Adapter for 8 round bottom tubes 20 mm		<input type="checkbox"/>		<input type="checkbox"/>	
	LGG015	Tube holding rod from code LGG010 to LGG014 Touch operation.				<input type="checkbox"/>	
	LGG016	Standard top for tubes diameter 30 mm				<input type="checkbox"/>	<input type="checkbox"/>
	LGG018	Antiskid platform for tubes max. diameter 99 mm				<input type="checkbox"/>	
	LGG019	Adapter 1 microplate					
	LGG020	Adapter 2 microplateS					
	LGG021	Support for tube adapters					
	LGG502	Platform support for Erlenmeyer					
	LGG508	Small head top control shaker					
	LGG509	Holder 10 top control shaker					
	LGG512	Large head top control shaker					

▶ LJB - Oscilating

▶ Analogic, RSLAB-15 A



1| Includes 3 small and 3 large elastic bands Platform with anti-slip coating included.

Code	LJB002
Speed range	0 – 80 rpm
Shaking movement	Seesaw
Shaking angle	7°
Max. weight of shaking	3 Kg
Operation type	Continuous
Aprox. dimensions	330 x 270 x 130 mm
Aprox. weight.	3,2 Kg

▶ Digital, RSLAB-15 D



1| Aluminium alloy platform with anti-slip coating included.
2| Includes 8 elastic bands.

Code	LJB003
Speed range	10 – 70 rpm
Shaking movement	Seesaw
Shaking angle	9°
Max. weight of shaking	10 Kg
Operation type	Continuous or scheduled
Timer	1-1199 min
Aprox. dimensions	410 x 360 x 200 mm
Aprox. weight.	9,0 Kg

▶ Oscillating stirrer analogical, 683/10



1| Platform with grooved rubber.

Code	LJB001
Speed	15 rpm
Shaking movement	Seesaw
Shaking angle	25°
Maximun shaking capacity	12 tubes
Max. tube size	20 x 170 mm
Platform material	Grooved rubber
Platform size	255 x 175 mm
Aprox. dimensions	350 x 200 x 95 mm
Aprox. weight.	2,5 Kg

▶ Agitador Duomax-1030 5° and 1030 10°



1| Suitable for smooth movements and reproducibile work, especially recommended for cell culture.
2| Wear-free, quiet continuous operation. Electronic speed regulation. Motor protection with automatic overload shutdown.

Code	LJB500	LJB501
Model	1030 5°	1030 10°
Shaking frequency	2 a 50 R.P.M	
R.P.M. Display	Scale	
Timer	Switch from 0-120' o infinite	
Angle movement	5°	10°
Power	115 W	
Platform	25,8x29 cm	
Height / Width / Depth	18,5/32/37,5 cm	
Weight	8 Kg	



LJB - Oscilating

Tilting Mixer Shaker "Movil-Tub"



- 1 | Fixed speed tilting shaker mixer with removable silicon, anti slide tray.
- 2 | Recommended especially for haematology, chemistry and microbiology applications.

Code	LJB502
Tube capacity	12
Tube Ø / length	20 x 160 mm
Speed r.p.m.	15 r.p.m.
Height / Width / Depth	12 x 34 x 20 cm
Tilt angle	25°
Power	6 W
Weight	2,5 Kg



Roller and tilt mixer "Movil-Rod"



- 1 | Roll and tilt mixer with 7 rollers, double action, gently rolls the tubes while rocking, produces a sinusoidal movement, providing excellent sample homogenisation.
- 2 | Recommended for suspensions of biological and haematological fluids.

Code	LJB503
Tube Ø	35 mm
Speed r.p.m.	10-80 r.p.m.
Lenght rollers	24 cm
Height / Width / Depth	9,8x34,9x26,5 cm
Power	12 W
Weight	3,6 Kg



LJD - Roll and tilt

Analogic, 683



- 1 | It allows the stirring of various types of tubes with different liquid samples, viscosities or suspensions of solids where minimum ventilation is required.

Code	LJD001
Speed range	10-80 rpm
Shaking movement	Rotational
Number of rollers	7
Lenght de rodillos	240 mm
Aprox. dimensions	400 x 250 x 100 mm
Aprox. weight	4 Kg



Analogic, RSLAB-10



- 1 | It allows the stirring of various types of tubes with different liquid samples, viscosities or suspensions of solids where minimum ventilation is required.

Code	LJD002
Speed range	0-70 rpm
Shaking movement	Rotational and seasaw
Number of rollers	6
Operation type	Continuous
Weight de agitación máxima	4 Kg
Aprox. dimensions	450 x 260 x 120mm
Aprox. weight.	4,5 Kg



LJG - Rotative

▶ Analogical multiposition, RSLAB-9



RS Lab

- 1 | Rotor capacity of the "disc" model: 48 x 1.5mL, 16 x 15mL and 8 x 50mL
- 2 | The "roisserie" model is supplied with 36 x 1.5mL, 12 x 15mL and 12 x 50mL adapters

Code	LJG002	LJG001
Model	RSLAB-9 Disc	RSLAB-9 Rotisserie
Speed range	0 – 80 rpm	
Shaking movement	Rotational	
Operation type	Continuous	
Aprox. dimensions	300x220x310 mm	530x150x190 mm
Aprox. weight	2,0 Kg	1,7 Kg

▶ Rotator "Orbit"



- 1 | Rotation Speed: 12 r.p.m.
- 2 | Adjustable rotation angle axis from vertical to horizontal.
- 3 | An elastic shaft drive and clip supports permit the flasks and tubes to be loaded and unloaded while the motor is running.

Code	LJG500
Speed range	Fixed 12 r.p.m.
Height / Width / Depth	19 x 23 x 20 cm
Power	15 W
Weight	6 Kg

▶ Digital multiposition, RSLAB-9

RS Lab










- 1 | Rolling action (end-over-end)
- 2 | The model 9 digital disc is supplied with the disc type accessory for 8 tubes of 50 ml (ref. LJJ009).
- 3 | The model 9 digital roisserie is supplied with the vertical roaster accessory for 16 tubes of 50 ml (ref. LJJ006).

Code	LJG004	LJG003
Model	RSLAB-9 digital disc	RSLAB-9 digital roisserie
Display	LCD	
Speed range	10-70 rpm	
Shaking movement	Rotational	
Shaking angle	Ajustable from 0° to 90°	
Operation type	Continuous or scheduled	
Timer	1 - 1199 min	
Aprox. dimensions	510 x 190 x 260 mm	
Aprox. weight.	8,0 Kg	

LJJ - Rotative, accessories

CHART 4: 'Accessories magnetic stirrers, DIGITAL RSLAB 9'

	Code	Description	Digital models		
			RSLAB 9 'disc'	RSLAB 9 "Rotisserie"	Orbit
	LJJ001	Accessory type horizontal rotisserie for 48 tubes of 1,5 mL		<input type="checkbox"/>	
	LJJ002	Accessory type horizontal rotisserie for 24 tubes of 15 mL		<input type="checkbox"/>	
	LJJ003	Accessory type horizontal rotisserie for 24 tubes of 50 mL		<input type="checkbox"/>	
	LJJ004	Accessory type vertical rotisserie for 32 tubes of 1,5 mL			
	LJJ005	Accessory type vertical rotisserie for 16 tubes of 15 mL		<input type="checkbox"/>	
	LJJ006	Accessory type rotisserie for 16 tubes of 50 mL		<input type="checkbox"/>	<input type="checkbox"/>
	LJJ007	Accessories type disc for 60 tubes of 1,5 mL	<input type="checkbox"/>		
	LJJ008	Accessories type disc for 16 tubes of 15 mL	<input type="checkbox"/>		
	LJJ009	Accessories type disc for 8 tubes of 50 mL		<input type="checkbox"/>	<input type="checkbox"/>
	LJJ010	4 support rods to integrate a second disc type support		<input type="checkbox"/>	
	LJJ501 LJJ507 LJJ508	8 x 50 ml Erlenmeyer flasks 5 x 250ml Erlenmeyer flasks 6 x 100ml Erlenmeyer flasks		<input type="checkbox"/>	
	LJJ500 LJJ502 LJJ503 LJJ504 LJJ505 LJJ506	35 tubes from 6 to 9 mm Ø 17 tubes from 23 to 28 mm Ø 18 tubes from 21 to 24 mm Ø 22 tubes from 17 to 20 mm Ø 25 tubes from 14 to 16 mm Ø 30 tubes from 10 to 13 mm Ø			



LJL - 3 D

▶ Analogic, RSLAB-14 A

**RS Lab**

1 | Platform with anti-slip coating included. Includes 3 small and 3 large elastic bands

Code	LJJL001
Type of movement	Orbital 3D
Shaking angle	7°
Speed range	0 – 80 rpm
Operation type	Continuous
Max. weight of shaking	3 Kg
Platform material	Coated aluminium alloy
Aprox. dimensions	330 x 270 x 130 mm
Aprox. weight.	3,2 Kg

▶ Shaker POLYMAX-2040 5° and 2040 10°

**COMECTA**

- 1 | Asymmetrical shaking, suitable for intensive mixing in a gentle and smooth way.
- 2 | The three dimensions of movement make its field of application in complicated test projections with plate samples.
- 3 | Wearless, noiseless continuous operation.

Code	LJJL500	LJJL501
Model	2040 5°	2040 10°
R.P.M. Display	Digital	
Timer	Switch from 0-120' o infinite	
Angle movement	5°	10°
Power	66 W	
Platform	34x39 cm	
Dimensions	20,8/41,5/45,5 cm	
Weight	16 Kg	

▶ Shaker POLYMAX-1040 5° and 1040 10°

**COMECTA**

- 1 | Asymmetrical shaking, suitable for intensive mixing in a gentle and smooth way.
- 2 | The three dimensions of movement make its field of application in complicated test projections with plate samples.
- 3 | Wearless, noiseless continuous operation.

Code	LJJL502	LJJL503
Model	1040 5°	1040 10°
R.P.M. Display	Scale	
Timer	Switch from 0-120' o infinite	
Angle movement	5°	10°
Power	25 W	
Platform	25,8 x 29 cm	
Height / Width / Depth	19,5/32/37,5 cm	
Weight	8 Kg	

▶ L JL - 3 D

▶ Digital, RSLAB-14 D

RS Lab

1 | Supplied with platform with 8 elastic bands. Platform with anti-slip coating included.

Code	LJL002
Type of movement	Orbital 3D
Shaking angle	9°
Speed range	10 – 70 rpm
Operation type	Continuous or scheduled
Timer	1 - 1199 min
Max. weight of shaking	5 Kg
Platform material	Coated aluminium alloy
Aprox. dimensions	430 x 360 x 106 mm
Aprox. weight.	9,0 Kg



▶ L JN - Orbitales

▶ Digital, Nahita Blue 685/2

nahita blue

1 | LCD display. Platform with anti-slip rubber. Continuous or programmed operation.

Code	LJN001
Speed range	30-240 rpm
Shaking movement	Orbital
Diameter orbital de agitación	24 mm
Timer	5h 59min 59s
Max. weight of shaking	15 Kg
Tamaño de plataforma	310 x 282 mm
Aprox. dimensions	380 x 280 x 150 mm
Aprox. weight.	9,5 Kg



▶ Analogic, RSLAB-7 A

RS Lab

1 | Platform with anti-slip coating included. Includes 3 small and 3 large elastic bands.

Code	LJN002
Speed range	0-200 rpm
Type of movement	Orbital
Diameter orbital de agitación	20 mm
Operation type	Continuous
Max. weight of shaking	3 Kg
Aprox. dimensions	330 x 270 x 110 mm
Aprox. weight	3,1 Kg



▶ Digital, RSLAB-7 D

RS Lab

1 | Plate with 3 bars included. Detection and protection system in case the maximum speed is exceeded. Control from PC via RS232 interface.

Code	LJN003
Display	LCD
Speed range	100-800 rpm
Type of movement	Orbital
Diameter orbital de agitación	4 mm
Operation type	Continuous or scheduled
Max. weight of shaking	2,5 Kg
Timer	1 - 1199 min
Aprox. dimensions	340 x 300 x 100 mm
Aprox. weight	8,1 Kg



LJN - Orbitales

Digital, RSLAB-7 PRO



- 1 | Plate with 4 bars included. Maintenance-free brushless motor.
- 2 | Detection and protection system in case the maximum speed is exceeded.
- 3 | Control from PC via RS232 interface.

Code	LJN004
Display	LCD
Speed range	100-500 rpm
Type of movement	Orbital
Diameter orbital de agitación	10 mm
Max. weight of shaking	7,5 Kg
Operation type	Continuous or scheduled
Timer	1 - 1199 min
Aprox. dimensions	420x370x100 mm
Aprox. weight	13,5 Kg

Orbital and linear motion shaker "Rotaterm"



- 1 | Adjustable temperature range from ambient +5 °C. to 250 °C.
- 2 | Electronic 3 digit temperature display, monitored by a Pt 100 temperature probe.
- 3 | Resolution: 1 digit. Electronic digital speed control from 20 to 230 oscillations per minute and timer from 1 to 999 minutes or continuous operation.

Code	LJN500
Platform	Spring clip
Platform dimensions	41 x 31 cm
Height / Width /Depth	30 x 46 x 38 cm
Power	2300 W
Weight	32 Kg

Orbital and horizontal shaker "Rotabit"



- 1 | Speed control from 20 to 230 oscillations per minute with timer from 1 to 999 minutes or continuous operation. Shaking amplitude of: 15 and 20 mm.
- 2 | Choice of orbital movement or a horizontal "To and Fro" motion.

Code	LJN501
Control oscillations	20-230 p.m.
Height / Width /Depth	20 x 42 x 43 cm
Power	80 W
Load capacity	30 Kg
Weight	13,5 Kg

Shaker UNIMAX 2010 and 1010



Code: LJN502



Code: LJN503

- 1 | Circular rotation shaking suitable for soft and energetic movements.
- 2 | Permissible ambient temperature: 0 to 50 °C, 80%.

Code	LJN502	LJN503
Model	2010	1010
Shaking frequency	20 a 400 r.p.m	30-500 r.p.m
Timer	Switch from 0-120' o infinite	Digital 0-999' o infinite
Rotation range	20 mm	10 MM
Power	115 W	50 W
Platform	340 x 390 mm	258 x 290 mm
Max. weight	10 Kg	5 Kg
Height / Width /Depth	13,5/42,6/43,5 cm	12,5/32/37,5 cm
Weight	16 Kg	8 Kg
Degree of protection	IP 20	IP40

LJN - Orbitales

Orbital shaker AG-200

COMECTA

1 | Outdoor furniture in ABS with an adaptive platform for the different models. Capacity for 4 petri dishes.

Code	LJN504
Rotation frequency	50-250 r.p.m.
Timer	1 min a 99h 59 min.
Max. weight of shaking	2,5 Kg
Rotation range	20 mm
Power	50 W
Weight	7 Kg



Orbital shaker AG-200-A

COMECTA

1 | Outdoor furniture in ABS with an adaptive platform for the different models.
2 | With anti-slip rubber platform of 26 cm width and 22 cm depth, with 3 rubber covered fastening bars that allow to hold all kind of glass containers, Erlenmeyers, flasks, jars, etc.

Code	LJN505
Rotation frequency	50-250 r.p.m.
Timer	1 min a 99h 59 min.
Max. weight of shaking	2,5 Kg
Rotation range	20 mm
Power	50 W
Weight	8 Kg



Orbital shaker AG-200-B

COMECTA

1 | Outdoor furniture in ABS with an adaptive platform for the different models.
2 | With base in treated aluminium of 27 cm. wide and 22 cm. deep with multiadaptor holes to hold adapters for erlenmeyer flasks, with capacities from 50ml. to 2000ml.

Code	LJN506
Rotation frequency	50-250 r.p.m.
Timer	1 min a 99h 59 min.
Max. weight of shaking	2,5 Kg
Rotation range	20 mm
Power	50 W
Weight	8 Kg



LJQ - Linear

Analogic, RSLAB-7 A

RS Lab

1 | Platform with anti-slip coating included. Includes 3 small and 3 large elastic bands.

Code	LJQ001
Speed range	0-200 rpm
Type of movement	Linear
Operation type	Continuous
Max. weight of shaking	3 Kg
Aprox. dimensions	330 x 270 x 110 mm
Aprox. weight.	3,1 Kg



▶ LJQ - Linear

▶ Digital, RSLAB-7 D

**RS Lab**

- 1 | Plate with 3 bars included. Maintenance-free brushless motor.
- 2 | Detection and protection system in case the maximum speed is exceeded.
- 3 | Control from PC via RS232 interface.

Code	LJQ002
Display	LCD
Speed range	100-350 rpm
Type of movement	Linear
Operation type	Continuous or scheduled
Max. weight of shaking	2,5 Kg
Timer	1 - 1199 min
Aprox. dimensions	340 x 300 x 100
Aprox. weight	8,1 Kg

▶ Digital, RSLAB-7 PRO

**RS Lab**

- 1 | Plate with 4 bars included. Maintenance-free brushless motor.
- 2 | Detection and protection system in case the maximum speed is exceeded.
- 3 | Control from PC via RS232 interface.

Code	LJQ003
Display	LCD
Speed range	100-350 rpm
Type of movement	Linear
Max. weight of shaking	7,5 Kg
Operation type	Continuous or scheduled
Timer	1 - 1199 min
Aprox. dimensions	420x370x100 mm
Aprox. weight.	13,5 Kg

▶ Shaker PROMAX 2020

**COMECTA**

- 1 | Shaking linear type, suitable for thorough mixing in reciprocal stirring movements
- 2 | Electronic speed regulation with digital r.p.m. display

Code	LJQ500
Shaking frequency	20 a 400 r.p.m
Timer	Conmutador 0-120' o infinito
Rotation range	20 mm
Max. weight of shaking	10 Kg
Alto/Ancho/Fondol	13,5/42,6/43,5 cm
Weight	16 Kg
Degree of protection	IP 20

▶ Shaker PROMAX 1020










**COMECTA**

- 1 | Shaking linear type, suitable for thorough mixing in reciprocal stirring movements
- 2 | Electronic speed regulation with digital r.p.m. display

Code	LJQ501
Model	1020
Shaking frequency	30 a 250 r.p.m
Timer	Digital 0-999' or infinite
Rotation range	32 mm
Platform	25,8 x 29 cm
Max. weight of shaking	5 Kg
Height / Width /Depth	12,5/32/37,5 cm
Weight	8 Kg
Degree of protection	IP 40



LJS - Orbital and linear - accessories

Code	Description	Model												
		7	7-D	14-A	15-A	7-pro	14-D	15-D	Rotabit	Unimax	Promax	Duomax	Polymax	Incubator 1000
	LJS006 Universal bar for plate with 3 bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	LJS007 Universal bar for plate with 4 bars							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	LJS008 Plate with 3 bars	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	LJS009 Erlenmeyer fixing clip attachment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	LJS010 Plate with 4 bars							<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	LJS013 Anti-slip platform Dimensions: 24x21,5 cm	<input checked="" type="checkbox"/>												
	LJS011 Erlenmeyer fixing clip attachment							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	LJS012 Platform with 8 rubbers Dimensions: 30x28,5 cm							<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	LJS001 Fixing clip for Erlenmeyer flask 28 units of 25 mL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	9 units of 25 mL							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	LJS002 Fixing clip for Erlenmeyer flask 16 units of 50 mL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
	9 units of 50 mL							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
	LJS003 Fixing clip for Erlenmeyer flask 16 units of 100 mL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
9 units of 100 mL							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
LJS004 Fixing clip for Erlenmeyer flask 9* units of 200/250 mL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	4 units of 200/250 mL							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
LJS005 Fixing clip for Erlenmeyer flask 9* units of 500 mL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
	2 units of 500 mL							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				









* with 3 fixing points instead of 4

= Accessory included with the indicated equipment

= Accessory compatible with the indicated equipment







LJS - Orbital and linear - accessories

Code	Description	Modelo												
		7	7-D	14-A	15-A	7-pro	14-D	15-D	Rotabit	Unimax	Promax	Duomax	Polymax	Incubator 1000
	Adapter for Erlenmeyer flask													
	Code	Capacity												
	LJS504	50 mL												
	LJS500	100 mL												
	LJS501	250 mL												
	LJS502	500 mL												
LJS503	1000 mL													
	LJS507	36 flasks of 50 mL												
		25 flasks of 100 mL												
		16 flasks of 250 mL												
		9 flasks of 500 mL												
		5 flasks of 1000 mL												
	LJS508	66 flasks of 50 mL												
		45 flasks of 100 mL												
		21 flasks of 250 mL												
		18 flasks of 500 mL												
		10 flasks of 1000 mL												
	Code	Description												
	LJS505	9 x 42 x 35 cm, 5 Kg												
	LJS506	9 x 70 x 35 cm, 7 Kg												
	Code	Capacity												
	LJS510	22 of 25 mL												
	LJS511	14 of 50 mL												
	LJS512	9 of 100 mL												
	LJS513	5 of 250 mL												
	LJS514	4 of 500 mL												
	LJS515	1000 mL												
	Code	Description												
	LJS516	Universal fixing with 2 rollers												
	LJS517	Elastomer roller												
	Universal fixing													
	Code	Description												
	LJS519	Universal fixing without rollers												
	LJS527	Elastomer roller												
	Clamp for Erlenmeyer													
	Code	Capacity												
	LJS520	25 mL												
	LJS521	50 mL												
	LJS522	100 mL												
	LJS523	250 mL												
	LJS524	500 mL												
LJS525	1000 mL													

 = Accesorio **incluido** con el equipo indicado = Accesorio **compatible** con el equipo indicado



▶ LJS - Orbital and linear - accessories

Code	Description	Modelo												
		7	7-D	14-A	15-A	7-pro	14-D	15-D	Rotabit	Unimax	Promax	Duomax	Polymax	Incubator 1000
 LJS518	Attachment for funnel of 22 of 25 mL								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
 LJS529	Multi-storey assembly for 2 trays								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
 LJS526	Holding for separ funnel 250, 500, 1000 mL								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
LJS528	Shelf with holes								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
LJS530	Holding for separating funnel 2000 mL								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
 LJS531	Universal attachment with rollers								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

▶ LLB - Stirring heads

▶ Analogic, Nahita 686



- For stirring low/medium viscosity liquids and liquids with solids in suspension.
- Model 686/1 is supplied with two paddle-type rods (diameters 10 and 30 mm), support bar and anti-slip base.
- Model 686/2 is supplied with two paddle-type rods (one 60 mm diameter and one 40 mm diameter with four holes), support bar and anti-slip base.

Code	LLB001	LLB002
Model	686/1	686/2
Speed range	200-1000 rpm	200-2000 rpm
Max. shaking volume	1 L	2 L
Aprox. dimensions	160x160x370 mm	160x240x500 mm
Aprox. weight	3,5 Kg	3,5 Kg



▶ Digital, RSLAB-13



- Anti-spill system of the sample.
- Universal holder and stirring rod not included.

Code	LLB004	LLB006
Model	RSLAB-13-20	RSLAB-13-40
Display	LED	LED
Speed range	50-2200 rpm	50-2200 rpm
Maximun volume	20 L	40 L
Max. viscosity	10000 mPas	50000 mPas
Rod dimensions	13 mm	13 mm
Aprox. dimensions	83x220x186 mm	83x220x186 mm
Aprox. weight	2,6Kg	2,8Kg



▶ LLB - Stirring heads

▶ Digital, RSLAB-13 PRO

**RS Lab**

- 1 | Anti-spill system of the sample.
- 2 | Overload protection (motor stops automatically in case of continuous overload).
- 3 | PC control via RS232 interface
- 4 | Includes universal holder and cross-stirring rod.

Code	LLB003	LLB005
Model	RSLAB-13 PRO-20	RSLAB-13 PRO-40
Display	LCD	LCD
Speed range	50-2200 rpm	50-2200 rpm
Maximum volume	20 L	40 L
Max. viscosity	10000 mPas	50000 mPas
Rod dimensions	13 mm	13 mm
Aprox. dimensions	83x220x186 mm	83x220x186 mm
Aprox. weight	2,6Kg	2,8Kg

▶ Stirrer RZR-1

**COMECTA**

- 1 | Up to 20 L (in H₂O) max. stirring volume.
- 2 | Up to 40.000 mPas of max. stirring viscosity.
- 3 | For simple stirring requirements.

Code	LLB500
Model	RZR-1
Power	77/15 W
Speed	35-250/280-2200 rpm
Speed control	Mechanic
Max. viscosity	40.000 mPas
Rod dimensions	8 mm
Room temperature allowed	0-40 °C 95% without condensation
Aprox. weight	2,7Kg

▶ Overhead stirrer "SE-100"














- 1 | Excellent blending results in an accurate and repeatable control.
- 2 | Specially designed for those samples in which its viscosity changes during the process.
- 3 | Speed digital reading and pre-selection (rpm).
- 4 | Adaptable spindle to stirring rods up to 9.5 mmØ.

Code	LLB501
Max stirring volume	Up to 40 L
Max stirring viscosity	Up to 1.000.000 mPas.
Control of speed	60 to 2000 rpm.
Height/Width/Depth	17,5 x 7,5 x 13,5 cm
Power	100 W
Weight	2,8Kg



▶ LLF - Accessories





	Code	Description	Model	
			13	13PRO
	LLF002	Stainless steel crossed stirring rod, 5x40 cm	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	LLF003	Stainless steel straight stirring rod, 6x40 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF004	Stainless steel blade stirring rod, 7x40 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF005	Stainless steel centrifuge stirring rod, 9x40 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF001	Universal stand	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	LLF006	PTFE crossed stirring rod , 5x35 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF007	PTFE straight stirring rod , 5x35 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF008	PTFE blade stirring rod , 7x35 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF009	PTFE centrifuge stirring rod , 9x35 cm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF015	PTFE crossed stirring rod , 380x69 mm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF016	PTFE straight stirring rod , 380x69 mm	<input type="checkbox"/>	<input type="checkbox"/>

= Accesorio **incluido** con el equipo indicado

= Accesorio **compatible** con el equipo indicado



LLF - Accessories

	Code	Description	Model	
			13	13PRO
	LLF017	Blade stirring rod, 350x70 mm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF018	Centrifuge rod, 250x80 mm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF019	Centrifuge rod, 350x80 mm	<input type="checkbox"/>	<input type="checkbox"/>
	LLF020	Centrifuge rod, 450x80 mm	<input type="checkbox"/>	<input type="checkbox"/>



LNB - Non refrigerated

Incubator orbital shaker 1102

**COMECTA**

- 1 | Epoxy enamelled metal exterior cabinet.
- 2 | Built with two cabinet-type doors and double glass windows that allow you to see the material on display inside.
- 3 | Two removable upper trays for storage in the lower tray of large volume Erlenmeyers. Adjustable outlet hole for the air inside the enclosure.

Code	LNB500
Speed range	From 30 to 300 r.p.m.
Control speed steps	1 r.p.m.
Refrigeration	No
Temp. range	RT + 5° up to 60°
Platform dimensions	734 x 458 mm
Dimensions	1440x950x700 mm
Power	930 W
Weight	265 Kg



LNG - Accessories

Erlenmeyer adapters

**COMECTA**

Code	Capacity
LNG500	50 mL
LNG501	100 mL
LNG502	250 mL
LNG503	500 mL
LNG504	1000 mL
LNG505	2000 mL
LNG506	3000 mL
LNG507	5000 mL



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[M]
LIQUID
HANDLING





MBB - Manual controllers

▶ Pipette controller

**DIGIPETTE**

- 1 | Ergonomic, lightweight and easy to handle with one hand
- 2 | For glass or plastic pipettes from 0.1 mL to 100 mL.
- 3 | Lever button for liquid aspiration and ejection.
- 4 | Replaceable Teflon hydrophobic filter for protection of the internal mechanism.

Code	Colour
MBB001	White
MBB002	Blue
MBB003	Red
MBB004	Green

▶ Pipette controller Profiller 435 manual



- 1 | Robust, easy to use, lightweight and ergonomic
- 2 | Soft-action lever button. Efficient blower system.
- 3 | Teflon protective membrane filter.
- 4 | Alternative colour-coded tip cones.
- 5 | For glass or plastic pipettes up to 100 mL.
- 6 | No maintenance required.

Code	Description
MBB005	Profiler Manual 435



MBD - Electronic controllers

▶ Electronic pipette controller

**DIGIPETTE**

- 1 | Powerful, lightweight and ergonomically designed to avoid fatigue.
- 2 | For glass or plastic pipettes from 0.1 mL to 100 mL.
- 3 | Safety valve and hydrophobic Teflon filters (0.2 µm and 0.45 µm).
- 4 | Rechargeable battery for 8 hours of continuous use, with low charge LED indicator.
- 5 | Wall and table brackets included.



Wall support



Chart support

Code	Description
MBD002	Electronic pipette controller

▶ Pipette controller Profiller electro 447



- 1 | Powerful pump - fills 25mL in 3 seconds
- 2 | Ergonomic buttons.
- 3 | Rechargeable NiMH battery during use.
- 4 | Chemical and shock resistance.
- 5 | Bench stand, wall hanger

Code	Description
MBD004	Pipette controller Profiller electro 447



▶ MBD - Electronic controllers

▶ Pipeo







- 1 | For all pipettes from 0.1 to 100 ml.
- 2 | Ergonomic, lightweight handle of approx. 190 g with excellent balance.
- 3 | By means of two knobs, the pipetting speed can be easily, infinitely and precisely adjusted with one hand.
- 4 | A 50 ml pipette fills silently in less than ten seconds. The liquid is discharged either with a free flow for pipettes set to 'Ex' or with the power of the blow-out motor.
- 5 | The charging status of the rechargeable battery is indicated by means of LEDs. Defective batteries can be easily replaced. In order to avoid unpleasant surprises, the LEDs change from green to red about 2 hours before it is necessary to recharge the battery. It is possible to continue working with the VITLAB pipeo® during the charging process.




Code	Type	Voltage
MBD501	Charger for European countries	230V/50Hz

▶ MBG - Controllers, accessories

▶ Accessories Pipeteador manual Profiller 435

	Code	Description
	MBG002	Teflon membrane filter 0.2 µm Pack: 5 units
	MBG003	Teflon membrane filter 0.45 µm Pack: 5 units
	MBG005	Spare cone white Pack: 3 units
	MBG006	Spare cone pink, violet, green Pack: 3 units
	MBG004	Spare pipette holder, silicone Pack: 1 units

▶ Accessories for pipette controller

	Code	Description
	MBG008	Filter for pipette controller 0.45 µm



MBJ - Pipette pumps

▶ Plunger pipette

**Kartell**

- 1 | Useful for pipetting dangerous liquids without breathing in vapour. The device can be used to quickly extract repeated doses of the same volume (up to 10 mL).
- 2 | A rubber grip will hold the Shape pipette securely.
- 3 | Accepts pipettes up to 10 mL.
- 4 | Body graduations are available. Molded in yellow acrylonitrile butadiene styrene (ABS).

Code	Diameter	Length	For pipettes (max.)
MBJ001	40 mm	100 mm	10 mL

▶ Vadosa pipette

**Kartell**

- 1 | Easy operation with pipettes from 0.1 to 25 mL and any liquid, even very viscous
- 2 | Extremely sensitive adjustment by means of threaded ring.
- 3 | Made of alkali and acid resistant polypropylene (PP)
- 4 | Only one hand is needed to hold it and regulate the suction.
- 5 | Particularly useful with hazardous or contaminated liquids.

Code	Diameter	Length	For pipettes (max.)
MBJ002	62 mm	118 mm	25 mL

▶ Pipette filler manual Profillette 406



- 1 | Easy one-handed operation. Fluted wheel for suction and dispensing.
- 2 | Yesde lever for quick emptying.
- 3 | Colour coding according to volume.

Code	Volume	Colour	Box
MBJ003	2 mL	Blue	1 / box
MBJ004	10 mL	Green	1 / box
MBJ005	25 mL	Red	1 / box
MBJ006*	2/10/25 mL	Mixed	3 / box

* Package

▶ Pipette pump

DIGIPETTE

- 1 | Easy one-handed operation. Grooved wheel for suction and dispensing of liquid.
- 2 | Yesde lever for quick emptying.
- 3 | Colour coding according to volume.

Code	Volumen	Colour
MBJ007	2 mL	Blue
MBJ008	10 mL	Green
MBJ009	25 mL	Red



▶ MBL - Rubber fillers/teats

▶ Ruber bulb



- 1 | Thick-walled pears.

Code	Volume	Colour
MBL001	1 mL	Grey
MBL002	2 mL	Grey
MBL004	15 mL	Grey



▶ Teat latex



- 1 | Adaptable to any pipette

Code	Capacity	Shape	Material
MBL005	2 mL	Cherry	Latex
MBL006	1,80 mL	Olive	Yeslicone



▶ Pipetting ball, 3 valves

Kartell

- 1 | With three glass ball valves, adaptable to any pipette
- 2 | A special rubber seal allows you to work with pipettes with a capacity greater than 20 mL.
- 3 | When removing the seal, pipettes with a capacity of less than 20 mL can be used.

Code
MBL007



- 1 | With three valves, for filling, flushing and emptying
- 2 | For pipettes, calibrated and graduated.



Code	Material	For pipettes
MBL019	Red	Up to 10 mL
MBL020	Green	Up to 100 mL



▶ Pear with valve and tube

Kartell

- 1 | Normally used for suction with Pellet Burettes and Nebulizers
- 2 | Red rubber.

Code	Number of valves	Diameter (mm)
MBL008	1	46
MBL009	2	46





▶ MBL - Rubber fillers/teats

▶ Double ball with net



Kartell

- 1 | Used for loading automatic burettes and columns for flash chromatography.
- 2 | Red rubber.

Code	Diameter (mm)
MBL010	46
MBL011	53

▶ Latex dummy teat



JENDO
plasticware

- 1 | Used with Ranvier dropper and Pasteur pipettes.

Code	Lenght (mm)
MBL012	40

▶ Dummy teat



JENDO
plasticware

- 1 | Made of latex. For pipettes Pasteur glass.

Code	MBL013

▶ Rubber teat



JENDO
plasticware

- 1 | For graduated pipettes and Pasteur pipettes.

Code	Material	Code	For pipettes
MBL014	Soft rubber		Pasteur glass
MBL015	Hard rubber		Pasteur glass
MBL016	Rubber		Up to 5mL
MBL017	Rubber		Up to 10mL
MBL018	Rubber		Up to 15mL



▶ MBL - Rubber fillers/teats

▶ Universal safety pipette bulb

Kartell

1 | Red rubber and silicone pipette aspirator

Code MBL022



▶ MDB - Fixed volume

▶ Bottle-top dispenser

VITLAB

1 | VITLAB® simplex² fix dispensers are practically universally applicable and can be used with many organic and inorganic solutions.

2 | The dispenser are equipped with a positive displacement piston and a fluoroplastic (PFA) sealing lip on the cylinder wall.

3 | The glass cylinder is also coated with a plastic material that reduces the risk of splashes should breakage occur.

4 | The telescopic filling tube can be adjusted smoothly to different bottle heights.

Code	Volume	E	CV
MDB501	1.0 mL	≤±1.0%	≤0.2%
MDB502	5.0 mL	≤±0.5%	≤0.1%
MDB503	10.0 mL	≤±0.5%	≤0.1%



▶ VITLAB® piccolo

VITLAB

1 | For the dosing of minimum volumes in all areas of biochemical and medical research.

2 | With VITLAB® piccolo even the smallest quantities can be dosed precisely directly from the bottle.

3 | Thanks to the ergonomic design, dispensing is easy and relaxed. VITLAB® piccolo can be operated with one hand. As with a pipette, simply press the button with your thumb to dispense the volume. The volume is automatically aspirated through the plunger lifter.

4 | In order to guarantee very high chemical resistance and a wide range of applications, only high-quality materials such as PTFE, PFA, ETFE, FEP, borosilicate glass and platinum-iridium come into contact with the medium.

Code	Volume	E	CV
MDB504	100 µL	≤±3.0%	≤0.4%
MDB506	250 µL	≤±2.0%	≤0.4%
MDB507	500 µL	≤±1.5%	≤0.3%
MDB508	1000 µL	≤±1.0%	≤0.2%





▶ MDD - Adjustable volume

▶ Dosyproof



DIGIPETTE

- 1 | Gentle, comfortable and effective dispensing Wide chemical compatibility.
- 2 | Fully assembled autoclavable. Easy maintenance and cleaning.
- 3 | For bottles with GL45 thread. Includes adapters for other threads.

Code	Volume range	Resolution	Accuracy
MDD001	0.5-5.0 mL	0.1 mL	±25 µL
MDD002	1.0-10.0 mL	0.2 mL	±50 µL
MDD003	2.5-25.0 mL	0.5 mL	±125 µL
MDD004	5.0-50.0 mL	1.0 mL	±250 µL

▶ Bottle top dispenser Dosyproof



DIGIPETTE

- 1 | Ergonomic design, with smooth piston movement for effortless dispensing
- 2 | The discharge tube rotates 360° allowing dispensing into several containers.
- 3 | Double graduated scale for precise volume adjustment and clear visibility.
- 4 | The recirculation valve eliminates liquid losses during priming.
- 5 | Autoclavable
- 6 | Includes 28/38//40/45 mm thread adapters

Code	Volume range	Resolution	Accuracy
MDD062	0.5-5.0 mL	0.1 mL	±25 µL
MDD063	1.0-10.0 mL	0.2 mL	±50 µL
MDD064	2.5-25.0 mL	0.5 mL	±125 µL
MDD065	5.0-50.0 mL	1.0 mL	±250 µL

▶ Acurex™ compact 501



- 1 | Integrated dosing mechanism. Yesmple and robust construction.
- 2 | Retractable graduated column reduces the height of the instrument
- 3 | The fluid is not in contact with metals along its flow
- 4 | Four container sizes.
- 5 | Fully autoclavable at 121°C / 250°F.



Code	Volume	Divisions	Accuracy (%CV)			Capacity*
			Vol. min	Vol. medium	Vol. max	
MDD005	1 – 10 mL	0.2 mL	<0.5%	<0.35%	<0.1%	1000 mL
MDD006	1 – 10 mL	0.2 mL	<0.5%	<0.35%	<0.1%	2000 mL
MDD007	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	1000 mL
MDD008	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	2000 mL
MDD009	0.2 – 2 mL	0.1 mL	<0.5%	<0.35%	<0.1%	250 mL
MDD011	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	1000 mL
MDD012	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	2000 mL
MDD013	0.4 – 5 mL	0.2 mL	<0.5%1)	<0.35%	<0.1%	500 mL
MDD010	1 – 30 mL	1.0 mL	<0.5%2)	<0.35%	<0.1%	2000 mL

* of the container



▶ MDD - Adjustable volume

▶ Dispenser Calibrex™ 520



- 1| Increased chemical resistance. Stable performance over time.
- 2| Yesmple construction - no tools required for disassembly.
- 3| Immediate volume adjustment.
- 4| Laboratory calibration.
- 5| Autoclavable at 121°C / 250°F fully assembled.
- 6| Three bottleneck adapters included.



It presents an easy volume adjustment



Code	Volume	Divisions	Accuracy (%E)			Accuracy (%CV)		
			Vol. min	Vol. medium	Vol. max	Vol. min	Vol. medium	Vol. max
MDD014	0.25-2 mL	0.05 mL	<±3.0%	<±1.8%	<±0.6%	<0.5 %	<0.35 %	<0.1%
MDD015	1-5 mL	0.1 mL	<±2.0%	<±1.3%	<±0.6%	<0.5 %	<0.35 %	<0.1%
MDD016	1-10 mL	0.25 mL	<±1.5%	<±1.1%	<±0.6%	<0.5 %	<0.35 %	<0.1%

▶ Simplex²



Code	Volume	Graduation	GL
MDD501	0.25 - 2.5 ml	0.05 ml	GL32
MDD502	0.5 - 5.0 ml	0.10 ml	GL32
MDD503	1.0 - 10.0 ml	0.20 ml	GL45
MDD504	2.5 - 25.0 ml	0.50 ml	GL45
MDD505	5.0 - 50.0 ml	1.00 ml	GL45
MDD506	10.0 - 100.0 ml	2.00 ml	GL45



▶ Genius²



- 1| VITLAB® genius² is equipped with a patented feedback valve that prevents loss of reagent during purging. With easy to use calibration function.
- 2| The VITLAB® genius² is equipped with a direct-displacement piston and a sealing lip made of PFA fluoroplastic which rests against the cylinder wall.
- 3| VITLAB® genius² is fully autoclavable at 121 °C (2 bar) in accordance with DIN EN 285 and certified in accordance with DIN 12600.

Code	Volume	Subdivision	E*	CV*
MDD507	0.25 - 2.5 ml	0.05 ml	≤±0.6%	≤0.1%
MDD508	0.5 - 5.0 ml	0.10 ml	≤±0.5%	≤0.1%
MDD509	1.0 - 10.0 ml	0.20 ml	≤±0.5%	≤0.1%
MDD510	2.5 - 25.0 ml	0.50 ml	≤±0.5%	≤0.1%
MDD511	5.0 - 50.0 ml	1.00 ml	≤±0.5%	≤0.1%
MDD512	10.0 - 100.0 ml	2.00 ml	≤±0.5%	≤0.1%



▶ Piccolo 2



Code	Capacity
MDD513	100/250 µl
MDD515	1000/2000 µl





MDD - Adjustable volume

Calibrex™ Organo 525 and Solutae 530 dispenser



- 1 | Permanent visibility of the fluid path. Integrated calibration system.
- 2 | Volume adjustment by means of a slide control (alternatively, screw button).
- 3 | Flow control system with stopcock (optional).
- 4 | QR code to access the chemical resistance chart. Always check that the dispenser is suitable for working with the specific reagent before purchasing.
- 5 | Autoclavable at 121°C, fully assembled.
- 6 | Three bottleneck adapters included.

Chemical resistance CALIBREX Organo and CALIBREX Solutae

organ

Organic

Non-crystallizing

Inert
ReagentsSaline
solutions

Strong acids and bases*

solutae

* Except for hydrofluoric acid (HF) and certain reagents. Consult chemical resistance tables before purchase.

NOTE: Chemical Resistance Chart: The dispensers incorporate a convenient QR code to access the chemical resistance chart.

Organo 525

Code	Description	Volume	Divisions	Accuracy (E%)			Accuracy (E%)		
				Vol.min	Vol medium	Vol max	Vol. min	Vol medium	Vol max
MDD017	Estándar	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD018	Estándar	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD019	Estándar	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD020	Estándar	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD024	Estándar	2.5-25 mL	0.5 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD026	Estándar	5-50 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD028	Estándar	10-100 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD021	Con llave	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD022	Con llave	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD023	Con llave	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD030	Con llave	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD025	Con llave	2.5-25 mL	0.5 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD027	Con llave	5-50 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD029	Con llave	10-100 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%

Solutae 530

Code	Description	Volume	Divisions	Accuracy (E%)			Accuracy (E%)		
				Vol.min	Vol medium	Vol max	Vol. min	Vol medium	Vol max
MDD031	Estándar	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD032	Estándar	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD033	Estándar	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD034	Estándar	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD038	Estándar	2.5-25 mL	0.5 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD040	Estándar	5-50 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD042	Estándar	10-100 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD035	Con llave	0.1-1 mL	0.02 mL	<± 3,0%	<±1,8%	<±0,6%	<1,2%	<0,7%	<0,17%
MDD036	Con llave	0.25-2.5 mL	0.05 mL	<±2,7%	<±1,6%	<±0,6%	<0,9%	<0,55%	<0,17%
MDD037	Con llave	0.5-5 mL	0.1 mL	<±2,0%	<±1,3%	<±0,6%	<0,5%	<0,35%	<0,1%
MDD044	Con llave	1-10 mL	0.2 mL	<±1,5%	<±1,2%	<±0,6%	<0,5%	<0,85%	<0,1%
MDD039	Con llave	2.5-25 mL	0.5 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD041	Con llave	5-50 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%
MDD043	Con llave	10-100 mL	1.0 mL	<±1,5%	<±1,1%	<±0,6%	<±0,5%	<±0,35%	<±0,1%



▶ MDG - Digital burette

▶ Digital burette

DIGIPETTE

- 1 | High quality engine that provides excellent precision and accuracy.
- 2 | Manufactured according to DIN EN ISO 8655.
- 3 | Built-in magnetic stirrer with 5 different programmed speeds.
- 4 | 16 programmed dispensing and aspiration speeds.
- 4 | 4000 mA/h battery with 5 hours working time.

Code	Volume range	Resolution	Temperature
MDG001	0.01-99.99 mL	10 µL	15-40° C



▶ Digital burettes CONTINUOUS E/RS



- 1 | For continuous titration with fast and comfortable, precise results.
- 2 | Large LCD display showing the titrated volume with 4 large, easy-to-read digits
- 3 | Operation: When both knurled wheels are turned, the titrant is continuously and smoothly delivered by the patented double piston pump (EP 801 982). No pro
- 4 | Height and length-adjustable discharge nozzle
- 5 | The patented retroactive dosing system (EP 542 241) prevents the loss of valuable reagents and reduces the risk of splashing.
- 6 | Calibration function to meet all the requirements of checking fixtures and fittings
- 7 | DE-M marking. Also available with DAKKS calibration certificate or individual certificate.



Certificate for burettes

Code	MDG503
Description	Certificate for burettes CONTINUOUS E/RS

Code	Volume	Model	E*	CV*
MDG501	2.5 ml	E	≤ ±%0.2 à 25 ml	≤ ±%0.1 à 25 ml
MDG502	5.0 ml	RS	≤ ±%0.2 à 50 ml	≤ ±%0.1 à 50 ml

▶ MDJ - Accessories

▶ CHART 1: 'Accessories Calibrex 520, 525 and 530 and for Acurex 501 dispensers'

Model			
501	520	525	530



Code	Description	Volume	Ø Thread
MDJ004	Bottle amber glass	100 mL	32 mm
MDJ007	Bottle amber glass	250 mL	32 mm
MDJ011	Bottle amber glass	500 mL	32 mm
MDJ001	Bottle amber glass	1000 mL	45 mm
MDJ005	Bottle amber glass	2500 mL	45 mm
MDJ013	Bottle amber glass PE coating	500 mL	32 mm
MDJ003	Bottle amber glass PE coating	1000 mL	45 mm
MDJ009	Bottle amber glass PE coating	2500 mL	45 mm
MDJ008	Bottle borosilicate	250 mL	45 mm
MDJ012	Bottle borosilicate	500 mL	45 mm
MDJ002	Bottle borosilicate	1000 mL	45 mm
MDJ006	Bottle borosilicate	2000 mL	45 mm
MDJ010	Bottle amber glass	2500 mL	45 mm
MDJ014	Bottle glass Pyrex	500 mL	32 mm
MDJ015	Bottle PE	250 mL	25 mm
MDJ016	Bottle PE	500 mL	25 mm
MDJ017	Bottle PE	1000 mL	32 mm
MDJ018	Bottle PE	2500 mL	45 mm





MDJ - Accessories

CHART 1: 'Accessories Calibrex 520, 525 and 530 and for Acurex 501 dispensers'

					Model			
					501	520	525	530
	Code	Description	Volume	Lenght				
	MDJ027	Delivery jet	25 ml	120 mm			<input type="checkbox"/>	<input type="checkbox"/>
	MDJ029	Delivery jet	25 ml	150 mm			<input type="checkbox"/>	<input type="checkbox"/>
	MDJ028	Delivery jet	50/100 ml	120 mm			<input type="checkbox"/>	<input type="checkbox"/>
	MDJ030	Delivery jet	50/100 ml	150 mm			<input type="checkbox"/>	<input type="checkbox"/>
	Code	Description						
	MDJ031	Stopcock assembly for models with flow of 25, 50 y 100 mL						
	Code	Description						
	MDJ019	Work station remote for volumes as from 25 mL)						
	MDJ020	Work station						
	MDJ021	Work station remote						

= Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment

CHART 2: 'Accessories Calibrex 520, 525 and 530 and for Acurex 501 dispensers'

					Model			
					501	520	525	530
	Code	Description						
	MDJ022	Tube extension Jet-Pen, 60 cm For recipients up to 1 and 2 L						
	MDJ023	Tube extensioin Jet-Pen, 60 cm For dispensers up to 10 mL						
	MDJ077	Jet Pen extension tubing 50-100 mL						
	Code	Description	Ext. diameter					
	MDJ024	Adapter PP threaded	32 mm			<input type="checkbox"/>	<input type="checkbox"/>	
	MDJ025	Adapter PP threaded	38 mm			<input type="checkbox"/>	<input type="checkbox"/>	
	MDJ026	Adapter PP threaded	40 mm			<input type="checkbox"/>	<input type="checkbox"/>	
	MDJ032	Adapter PP threaded	22 mm			<input type="checkbox"/>		
	MDJ033	Adapter PP threaded	25 mm			<input type="checkbox"/>		
	MDJ034	Adapter PP threaded	28 mm			<input type="checkbox"/>		
	MDJ035	Adapter PP threaded	30 mm			<input type="checkbox"/>		
	MDJ036	Adapter PP threaded	34 mm			<input type="checkbox"/>		
	MDJ037	Adapter PP threaded	36 mm			<input type="checkbox"/>		
	MDJ038	Adapter PP threaded	38 mm			<input type="checkbox"/>		
	MDJ039	Adapter PP threaded	40 mm			<input type="checkbox"/>		
	MDJ040	Adapter PP threaded	45 mm			<input type="checkbox"/>		
	MDJ041	Adapter PTFE threaded	36 mm			<input type="checkbox"/>		
	MDJ042	Adapter PTFE threaded	38 mm			<input type="checkbox"/>		
	MDJ043	Adapter PTFE threaded	40 mm			<input type="checkbox"/>		
	MDJ044	Adapter PTFE threaded	45 mm			<input type="checkbox"/>		
	MDJ045	Conic Adapter threaded	18.8 mm			<input type="checkbox"/>		
	MDJ046	Conic Adapter threaded	24 mm			<input type="checkbox"/>		
	MDJ047	Conic Adapter threaded	29.2 mm			<input type="checkbox"/>		
	MDJ048	Conic Adapter threaded	45 mm			<input type="checkbox"/>		

* bottle neck

= Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment



MDJ - Accessories

CHART 3: 'Accessories for Dosyproof dispensers'

				Model Dosyproof
	Code	Description	Diameter	
	MDJ052	Thread adapter S40	45/40 mm	<input type="checkbox"/>
	MDJ053	Thread adapter GL38	45/38 mm	<input type="checkbox"/>
	MDJ054	Thread adapter GL32	45/32 mm	<input type="checkbox"/>
	MDJ055	Thread adapter GL28	32/28 mm	<input type="checkbox"/>
	MDJ056	Thread adapter GL25	32/25 mm	<input type="checkbox"/>
	Code	Description		<input type="checkbox"/>
	MDJ057	Supply tube		
	Code	Description		<input type="checkbox"/>
	MDJ058	Dispenser tube		

= Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment

Adapter PP external



Code	Thread	Bottle thread
MDJ503	GL32	NS 29/32
MDJ506	GL32	GL38
MDJ507	GL32	GL45
MDJ516	GL28	GL32
MDJ518	GL32	GL28

Other accessories



1 | For VITLAB® continuous E/RS and VITLAB® simplex/genius

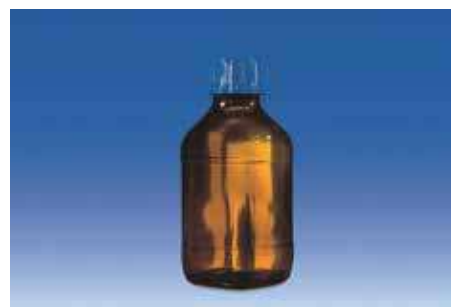
Code	Description
MDJ508	Drying Tube, PP, unfilled
MDJ509	Support PP for dispenser
MDJ517	Telescopic intake tube, length 170-330 mm
MDJ519	Telescopic intake tube, length 195-350 mm



Bottle, amber glass



Code	Capacity	GL
MDJ511	100 mL	GL28
MDJ512	100 mL	GL32
MDJ514	250 mL	GL32
MDJ515	500 mL	GL32
MDJ510	1000 mL	GL45
MDJ513	2500 mL	GL45





▶ MGB - Adjustable volume

▶ Autoclavable micropipette



DIGIPETTE

- 1 | Unique ergonomic design for comfortable and prolonged use without fatigue
- 2 | Completely autoclavable without disassembly.
- 3 | Click-stop volume adjustment system.
- 4 | Colour coded for easy identification.
- 5 | Individual calibration certificate according to EN ISO 8655-6.

Code	Volume (μ L)	Division (μ L)	Vol. test (μ L)	Inaccuracy (%)	Imprecision (%)
MGB001	0.1-2.5	0.01	0.25 2.5	12 2.5	6 1.6
MGB002	0.5-10	0.1	1 10	2.5 1	1.5 0.8
MGB003	2-20	0.1	2 20	3 0.9	2 0.4
MGB004	5-50	0.5	5 50	2 0.6	2 0.3
MGB005	10-100	0.5	10 100	3 0.8	1.5 0.15
MGB006	20-200	1	20 200	2 0.6	0.8 0.15
MGB007	100-1000	5	100 1000	2 0.6	0.7 0.2
MGB008	500-5000	50	500 5000	2 0.5	0.6 0.2
MGB009*	500-10000	100	500 10000	3 0.6	0.6 0.2

* sin eyector of tip; eyección manual

▶ Micropipette SMART



- 1 | High range and oriented to research, with high performance and an ultra-light and ergonomic design.
- 2 | Thermoplastic elastomer coating to prevent heat transfer.
- 3 | Excellent resistance to chemical corrosion and UV radiation
- 4 | Completely autoclavable without the need for disassembly.
- 5 | Colour coded for easy identification.
- 6 | Individual calibration certificate according to EN ISO 8655-6.

Code	Volume (μ L)	Division (μ L)	Vol. test (%)	Inaccuracy (%)	Imprecision
MGB010	0.1-2.5	0.002	0.25 2.5	12 2.5	6 1.6
MGB011	0.5-10	0.02	1 10	2.5 1	1.8 0.6
MGB012	2-20	0.02	2 20	3 0.9	2 0.4
MGB013	5-50	0.1	5 50	2 0.6	2 0.3
MGB014	10-100	0.1	10 100	3 0.8	1 0.2
MGB015	20-200	0.2	20 200	2.5 0.6	0.7 0.2
MGB016	100-1000	0.1	100 1000	3 0.6	0.6 0.2
MGB017	500-5000	10	500 2500 5000	2.4 1.2 0.6	0.6 0.25 0.15
MGB018	1000-10000	20	1000 5000 10000	3 1.2 0.6	0.6 0.3 0.2



▶ MGB - Adjustable volume

▶ Micropipette Calibra® digital 822



- 1 | Instant volume adjustment thanks to its double-cam system.
- 2 | Long-term performance and calibration stability.
- 3 | Shock, UV and autoclave resistant.
- 4 | Reliable user calibration.
- 5 | Minimal maintenance requirements.
- 6 | Robust and durable construction.



Adjustment key, counts with a fine adjustment

Code μL	Volume μL	Division Vol. min	Inaccuracy (%E)			Imprecision (%CV)			Type of tip
			Vol. min	Vol. max	Vol. min	Vol. max	Vol. min	Vol. max	
MGB030	2-20	0.1	< ± 2.5%	< ± 1.0%	< 1.7%	< 0.5%	< 1.7%	< 0.5%	200 μL
MGB031	10-100	0.5	< ± 1.5%	< ± 0.8%	< 1.0%	< 0.2%	< 1.0%	< 0.2%	200 μL
MGB032	20 – 200	1.0	< ± 1.5%	< ± 0.6%	< 0.6%	< 0.2%	< 0.6%	< 0.2%	200 μL
MGB026	100-1000	5.0	< ± 1.5%	< ± 0.5%	< 0.5%	< 0.2%	< 0.5%	< 0.2%	1000 μL



▶ Micropipette Acura manual® 825



- 1 | Intelligent and reliable volume adjustment.
- 2 | One-handed volume adjustment
- 3 | Precision digital display visible at all times.
- 4 | Adjustable Justip™ tip ejector *fits most tips.
- 5 | Swift-set user calibration system*.
- 6 | Shock, UV and autoclave resistance.

* Patented by Socorex

PATENTED TIP EJECTION SYSTEM



Ejector button



Adjustable tip ejection

Code	Volume μl	Division μl	Inaccuracy (%E)			Imprecision (%CV)			Type of tip
			Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max	
MGB035	0.5-10	0.01	<± 2.5% ¹⁾	<± 1.8%	< 1.0%	< 1.8% ²⁾	<1.2%	<0.5%	Ultra 10 μl
MGB036	1-10	0.01	<± 2.5%	<± 1.8%	< 1.0%	< 2.5%	<1.6%	<0.7%	200 μl
MGB037	2-20	0.02	<± 2.5%	<± 1.8%	< 1.0%	< 1.7%	<1.1%	<0.5%	200 μl
MGB038	5-50	0.1	<± 1.5%	<± 1.3%	< 1.0%	< 1.0%	<0.7%	<0.4%	200 μl
MGB039	10-100	0.1	<± 1.5%	<± 1.2%	< 0.8%	< 1.0%	<0.6%	<0.2%	200 μl
MGB040	20-200	0.2	<± 1.5%	<± 1.1%	< 0.6%	< 0.6%	<0.4%	<0.2%	200 μl
MGB033	100-1000	1	<± 1.5%	<± 1.0%	< 0.5%	< 0.5%	<0.4%	<0.2%	1000 μl
MGB034	0.1-2	0.002	<± 6.0% ¹⁾	<± 4.0%	< 2.0%	< 5.0% ¹⁾	<3.3%	<1.5%	Ultra 10 μl

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

1) measured at 0.5 μl - 2) measured at 1 μl





MGB - Adjustable volume

Triopack Acura® manual 825



- 1 | Three adjustable pipettes.
- 2 | Wide range of volume combinations up to 10 mL
- 3 | Nine different packages.
- 4 | Includes: Qualitix® samples, silicone grease, quality control certificates and instruction manual.

Code	Contains (micropipettes / macropipettes models)		
MGB046	2 μ l (0.1-2)	10 μ l (0.5-10)	50 μ l (5-50)
MGB047	2 μ l (0.1-2)	20 μ l (2-20)	200 μ l (20-200)
MGB048	10Y μ l (1-10)	50 μ l (5-50)	200 μ l (20-200)
MGB045	10Y μ l (1-10)	100 μ l (10-100)	1000 μ l (100-1000)
MGB044	10 μ l (0.5-10)	100 μ l (10-100)	1000 μ l (100-1000)
MGB043	20 μ l (2-20)	200 μ l (20-200)	1000 μ l (100-1000)
MGB041	100 μ l (10-100)	1000 μ l (100-1000)	5 ml (0.5-5)
MGB042	50 μ l (5-50)	200 μ l (20-200)	1000 μ l (100-1000)
MGB049	1000 μ l (100-1000)	5 ml (0.5-5)	10 ml (1-10)

Values obtained with double-distilled water at a constant temperature ($\pm 0.5^\circ\text{C}$) between 20 and 25°C according to ISO 8655.

Micropipette Acura® manual 826 XS



- 1 | Three adjustable pipettes.
- 2 | Wide range of volume combinations up to 10 mL
- 3 | Nine different packages.
- 4 | Includes: Qualitix® samples, silicone grease, quality control certificates and instruction manual.

Code	Volume	Weight
MGB050	0.1 - 2 μ l	84 gr
MGB051	0.5 - 10 μ l	84 gr
MGB052	1 - 10 μ l	85 gr
MGB053	2 - 20 μ l	85 gr
MGB054	5 - 50 μ l	86 gr
MGB055	10 - 100 μ l	87 gr
MGB056	20-200 μ l	86 gr
MGB057	100 - 1000 μ l	88 gr

Acura® manual 826 XS TwiXS pack



- 1 | Two adjustable volume pipettes. Shelf support for pipettes.
- 2 | Volume combinations up to 1000 μ l
- 3 | Yesx different packages.

Code	Contains (micropipettes)	
MGB058	2 μ l (0.1 - 2)	20 μ l (2 - 20)
MGB059	10 μ l (0.5 - 10)	100 μ l (10 - 100)
MGB060	20 μ l (2 - 20)	200 μ l (20 - 200)
MGB061	50 μ l (5 - 50)	200 μ l (20 - 200)
MGB062	100 μ l (10 - 100)	1000 μ l (100 - 1000)
MGB063	200 μ l (20 - 200)	1000 μ l (100 - 1000)



▶ MGB - Adjustable volume

▶ Macropipette Calibra® digital 832

SOCOREX
SWISS

- 1| Instant volume adjustment thanks to its double-cam system.
- 2| Long-term performance and calibration stability. Robust and durable construction.
- 3| Shock, UV and autoclave resistant.
- 4| Reliable user calibration.
- 5| Interchangeable nozzle filter.
- 6| Pasteur pipette adapter included in the 2 mL model.
- 7| Volume adjustment wheel with fine adjustment when lifting



Adjustment key, counts with a fine adjustment



Code	Volume ml	Division ml	Inaccuracy (%E)			Imprecision (%CV)			Type of tip
			Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max	
MGB064	0.2-2	0.01	<± 1.5%	<± 1.0%	<± 0.5%	< 0.5%	< 0.3 %	< 0.2%	2 ml
MGB065	1-10	0.1	<± 1.5%	<± 1.0%	<± 0.5%	< 0.3%	< 0.3%	< 0.15%	10 ml

▶ Macropipette Acura manual® 835

SOCOREX
SWISS

- 1| Intelligent and reliable volume adjustment. One-handed operation
- 2| Interchangeable nozzle protection filter
- 3| Adjustable Justip™* tip ejector that fits most tips
- 4| Swift-set user calibration system*
- 5| Shock, UV and autoclave resistant.
- 6| Pasteur pipette adapter included in the 2 and 5 ml models

*Patented by Socorex

PATENTED TIP EJECTION SYSTEM



Ejector button



Eyección ajustable de la tip



Adjustable tip ejection



Volume Adjustment



Code	Volume ml	Division ml	Inaccuracy (%E)			Imprecision (%CV)			Type of tip
			Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max	
MGB066									2 ml
MGB070 ¹⁾	0.2-2	0.002	<± 1.5%	<± 1.0%	<± 0.5%	< 0.5%	< 0.3%	< 0.2%	2 ml+Pasteur
MGB067									5 ml
MGB068 ¹⁾	0.5-5	0.01	<± 1.5%	<± 1.1%	<± 0.6%	< 0.6%	< 0.5%	< 0.3%	5 ml+Pasteur
MGB069	1-10	0.01	<± 1.5%	<± 0.7%	<± 0.5%	< 0.5%	< 0.3%	< 0.2%	10 ml

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

1) The model includes a Pasteur nozzle adapter.



▶ MGB - Adjustable volume

▶ Microdispenser Acura® self-refill 865



AUTO
+121°

- 1 | Excellent ergonomics, smooth activation of the plunger.
- 2 | Large display for volume display.
- 3 | Easy calibration in the laboratory.
- 4 | No consumables required.
- 5 | Autoclavable fully assembled at 121°C and 250°F.
- 6 | Variable feeding by bottle, tube or syringe.

Code	Volume μl	Division μl	Inaccuracy (%E)			Imprecision (%CV)		
			Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max
MGB072	5-50	0.1	<± 5.0%	<± 3.5%	<± 1.5%	< 2.0%	< 1.4%	< 0.4%
MGB071	20-200	0.2	<± 2.5%	<± 1.8%	<± 1.0%	< 1.5%	< 1.0%	< 0.3%
MGB073	100-1000	1	<± 1.5%	<± 1.1%	<± 0.6%	< 0.6%	< 0.4%	<0.2%

Values obtained with double-distilled water at a constant temperature (± 0.5°C) between 20 and 25°C according to ISO 8655.

▶ VITLAB® micropipette



Code	Volume
MGB501	0,50 - 10 μL
MGB502	2 - 20 μL
MGB503	10 - 100 μL
MGB504	20 - 200 μL
MGB505	100 - 1000 μL
MGB506	500 - 5000 μL
MGB507	1 - 10 mL

▶ MGD - Fixed volume

▶ Autoclavable micropipette

DIGIPETTE



- 1 | Unique ergonomic design for comfortable and prolonged use without fatigue.
- 2 | Completely autoclavable without disassembly.
- 3 | Colour coded for easy identification.
- 4 | Individual calibration certificate according to ISO 8655 standards.

Code	Volume	Inaccuracy (E%)	Imprecision (CV%)
MGD001	10 μl	< ± 0.8 %	< 0.8 %
MGD002	20 μl	< ± 0.6 %	< 0.5 %
MGD003	25 μl	< ± 0.5 %	< 0.3 %
MGD004	50 μl	< ± 0.5 %	< 0.3 %
MGD005	100 μl	< ± 0.5 %	< 0.3 %
MGD006	200 μl	< ± 0.4 %	< 0.2 %
MGD007	500 μl	< ± 0.3 %	< 0.2 %
MGD008	1000 μl	< ± 0.3 %	< 0.15 %



▶ MGD - Fixed volume

▶ Micropipette Acura® manual 815



- 1| Ergonomic design and lightness. Smooth piston activation.
- 2| Adjustable Justip™ tip ejector * fits most tips.
- 3| User calibration with integrated key. Colour-coded smartie cap.

*Patented by Socorex

Code	Volume μl	Inaccuracy (E%)	Imprecision (CV%)	Type of tip
MGD014	1	< ± 2.0%	< 1.0%	Ultra 10 μl
MGD015	5	< ± 1.4%	< 1.0%	Ultra 10 μl
MGD016	10	< ± 0.7%	< 0.7%	Ultra 10 μl
MGD017	10Y	< ± 0.7%	< 0.8%	200 μl
MGD018	15	< ± 0.7%	< 0.5%	200 μl
MGD019	20	< ± 0.75%	< 0.5%	200 μl
MGD020	25	< ± 0.7%	< 0.6%	200 μl
MGD021	30	< ± 0.7%	< 0.6%	200 μl
MGD022	32	< ± 0.7%	< 0.6%	200 μl
MGD023	40	< ± 0.7%	< 0.5%	200 μl
MGD024	50	< ± 0.7%	< 0.4%	200 μl
MGD025	60	< ± 0.7%	< 0.5%	200 μl
MGD026	70	< ± 0.7%	< 0.4%	200 μl
MGD027	75	< ± 0.7%	< 0.4%	200 μl
MGD028	80	< ± 0.7%	< 0.35%	200 μl
MGD029	90	< ± 0.7%	< 0.3%	200 μl
MGD030	100	< ± 0.7%	< 0.3%	200 μl
MGD031	120	< ± 0.7%	< 0.4%	200 μl
MGD032	150	< ± 0.7%	< 0.3%	200 μl
MGD033	200	< ± 0.7%	< 0.3%	200 μl
MGD034	250	< ± 0.7%	< 0.4%	1000 μl
MGD035	300	< ± 0.7%	< 0.4%	1000 μl
MGD036	400	< ± 0.7%	< 0.3%	1000 μl
MGD037	500	< ± 0.7%	< 0.3%	1000 μl
MGD038	600	< ± 0.7%	< 0.3%	1000 μl
MGD039	700	< ± 0.7%	< 0.2%	1000 μl
MGD040	750	< ± 0.7%	< 0.2%	1000 μl
MGD041	800	< ± 0.7%	< 0.2%	1000 μl
MGD042	900	< ± 0.7%	< 0.2%	1000 μl
MGD013	1000	< ± 0.6%	< 0.2%	1000 μl



▶ Macropipette Acura manual® 835 F



- 1| Unique ergonomic design for comfortable and prolonged use without fatigue.
- 2| Completely autoclavable without disassembly.
- 3| Colour coded for easy identification.
- 4| Individual calibration certificate according to ISO 8655 standards.

Code	Volume ml	Inaccuracy (E%)	Precision (CV%)	Tip
MGD043	2	< ± 0.8%	< 0.5%	2 ml
MGD044	2.5	< ± 0.8%	< 0.5%	5 ml
MGD045	5	< ± 0.7%	< 0.3%	5 ml
MGD046	10	< ± 0.5%	< 0.2%	10 ml





▶ MGG - Multichannel

▶ Autoclavable micropipettes

DIGIPETTE



- 1 | Widely used in immunology, biochemistry, clinical diagnosis and food analysis.
- 2 | Suitable for handling microtiter plates in dilution processes and washing steps among others.
- 3 | 360° rotating and detachable head for autoclaving.
- 4 | Identification by colour code.

Code	Vol. range μl	Res. μl	Vol. test (±) %	Inaccuracy (±) %	Imprecision
8 Channels					
MGG001	0.5-10	0.1	1 10	4 1.5	4 1.5
MGG002	5-50	0.5	5 50	3 1	2 0.7
MGG003	10-100	1	10 100	1.5 1	1.5 0.5
MGG004	20-200	1	20 200	1.5 0.7	0.75 0.25
MGG005	30-300	1	30 300	1.5 0.8	0.75 0.25
12 Channels					
MGG006	0.5-10	0.1	1 10	4 1.5	4 1.5
MGG007	5-50	0.5	5 50	3 1	2 0.7
MGG008	10-100	1	10 100	1.5 1	1.5 0.5
MGG009	20-200	1	20 200	1.5 0.7	0.75 0.25
MGG010	30-300	1	30 300	1.5 0.8	0.75 0.25

▶ Acura® manual 855



- 1 | 8 and 12 channel models, up to 350 μl.
- 2 | Lightness and perfect adaptation to the hand.
- 3 | Precision digital display always visible.
- 4 | Adjustable Justip™ tip ejector that fits most tips.
- 5 | Swift-set user calibration system*.
- 6 | 360° rotation of the volumetric module.

* Patented by Socorex



360° rotation



Multichannel vessel

Code	Volume μl	Division μl	Inaccuracy (%E)			Imprecision (%CV)			Type of tip
			Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max	
12 Channels									
MGG016	0.5 - 10	0.01	<± 3.5% ¹⁾	<± 2.5%	<± 1.5%	< 3.0% ¹⁾	< 2.0%	< 1.0%	Ultra 10 μl
MGG017	5 - 50	0.1	<± 1.0%	<± 0.9%	<± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 μl
MGG018	20 - 200	0.2	<± 0.9%	<± 0.8%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 μl
MGG019	40 - 350	0.4	<± 1.0%	<± 0.9%	<± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 μl
8 Channels									
MGG020	0.5 - 10	0.01	<± 3.5% ¹⁾	<± 2.5%	<± 1.5%	< 3.0% ¹⁾	< 2.0%	< 1.0%	Ultra 10 μl
MGG021	5 - 50	0.1	<± 1.0%	<± 0.9%	<± 0.8%	< 1.0%	< 0.7%	< 0.4%	200 μl
MGG022	20 - 200	0.2	<± 0.9%	<± 0.8%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%	200 μl
MGG023	40 - 350	0.4	<± 1.0%	<± 0.9%	<± 0.8%	< 0.6%	< 0.5%	< 0.3%	350 μl



MGJ - Repeater pipettes

Manual dispenser

DIGIPETTE

- 1| Ideal for speeding up long repetitive pipetting series. Lightweight and ergonomic for one-handed operation without fatigue.
- 2| Suitable for all viscosities with guaranteed precision and accuracy.
- 3| Safety design to avoid pipette contamination or cross-contamination.



Code	Description
MGJ001	Manual dispenser Digipette 10 - 5000 µl

Repeater pipette Stepper™ 416

SOCOREX SWISS

- 1| Activation with 4 fingers. Self-locking mechanism.
- 2| Colour-coded setup buttons provide clear indication of volumes and number of aliquots.
- 3| Three colour-coded positive displacement syringes (Ecostep™ syringes)

Code	MGJ003
------	--------

Number aliquots	Volume µL	Volume µL	Volume µL
73	10	50	500
49	15	75	750
36	20	100	1000
29	25	125	1250
24	30	150	1500
20	35	175	1750
18	40	200	2000
15	45	225	2250
14	50	250	2500
12	55	275	2750
11	60	300	3000
10	65	325	3250
9	70	350	3500
8	75	375	3750
8	80	400	4000
7	85	425	4250
7	90	450	4500
7	95	475	4750
6	100	500	5000



MGM - Electronic pipettes

Digital pipette DosyPette

DIGIPETTE

- 1| Pipetting, mixing, multi-dispensing (step-by-step) and dilution functions
- 2| High performance motorized control ensures high accuracy and repeatability and eliminates possible errors in manual pipetting
- 3| Self-calibration: by connecting to the PC via the USB port the user can perform the calibration of the pipette using the specific software.
- 4| Autoclavable bottom module.
- 5| Adjustable aspiration and dispensing speed

Code	Volume (µL)	Incremento (µL)	Vol. test (µL)	Inaccuracy (µL)	%	Imprecision SD (µL)	CV%
MGM039	0.5-10	0.01	10	± 0.10	± 1.0	0.05	0.50
			1	± 0.03	± 3.5	0.03	3.00
MGM040	5-50	0.1	50	± 0.40	± 0.80	0.15	0.30
			5	± 0.15	± 3.00	0.12	2.50
MGM041	30-300	1	300	± 1.80	± 0.60	0.60	0.20
			30	± 0.9	± 3.00	0.21	0.70
MGM042	100-1000	5	1000	± 6.00	± 0.60	2.00	0.20
			100	± 3.00	± 3.00	0.60	0.60





MGM - Electronic pipettes



▶ Acura® electro: 926XS (micro), 936 (macro), 956 (multichannel)



- 1| Optimised, lightweight ergonomics. Easy and intuitive self-learning program.
- 2| Large reversible display for left/right reading.
- 3| Quickly interchangeable battery. Quick charge, long working autonomy.
- 4| Adjustable ejector* to fit most tips.
- 5| Pipetting cycle counter.
- 6| 27 interchangeable volumetric modules, all fit into the same control unit.
- 7| Adjustable pipetting speed.

*Patented by Socorex.

Starter Pack

Recommended when purchasing an Acura Electro for the first time. Each starter pack includes: electronic pipette, quality control certificate, instruction manual, charging stand, power supply, additional battery pack and samples of pipette tips.

Code	Volume	Division	Accuracy (E%)		Precision (CV%)		Tip
			Min volume	Max volume	Min volume	Max volume	
Micropipettes Acura® electro 926XS							
MGM002	0.1 - 2 µl	0.01 µl	<+/- 2.5 % ¹⁾	<+/- 0.9 %	< 2.5 % ¹⁾	< 0.8 %	Ultra 10 µl
MGM003	0.5 - 10 µl	0.05 µl	<+/- 1.2 % ²⁾	<+/- 0.6 %	< 1.5 % ²⁾	< 0.35 %	Ultra 10 µl
MGM004	0.5 - 10 µl	0.05 µl	<+/- 1.2 % ²⁾	<+/- 0.6 %	< 1.7 % ²⁾	< 0.4 %	200 µl
MGM005	1 - 20 µl	0.1 µl	<+/- 1.2 % ²⁾	<+/- 0.5 %	< 1.2 % ²⁾	< 0.3 %	200 µl
MGM006	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.7 % ²⁾	< 0.25 %	200 µl
MGM007	5 - 100 µl	0.5 µl	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.7 % ²⁾	< 0.2 %	200 µl
MGM013	10 - 200 µl	1.0 µl	<+/- 1.0 % ²⁾	<+/- 0.4 %	< 0.6 % ²⁾	< 0.15 %	200 µl
MGM001	50 - 1000 µl	5.0 µl	<+/- 0.8 % ²⁾	<+/- 0.4 %	< 0.4 % ²⁾	< 0.1 %	1000 µl
Micropipettes Acura® electro 936							
MGM020	0.1 - 2 ml	0.01 ml	<+/- 1.5 % ²⁾	<+/- 0.5 %	< 0.6 % ²⁾	< 0.15 %	2 ml
MGM021	0.25 - 5 ml	0.05 ml	<+/- 1.2 % ²⁾	<+/- 0.5 %	< 0.6 % ²⁾	< 0.15 %	5 ml
MGM022	0.5 - 10 ml	0.05 ml	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.5 % ²⁾	< 0.15 %	10 ml
Pipettes Acura® electro 956, 8 channels							
MGM031	0.5 - 10 µl	0.05 µl	<+/- 3.5 % ²⁾	<+/- 1.0 %	< 3.0 % ²⁾	< 0.7 %	Ultra 10 µl
MGM037	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.8 %	< 1.0 % ²⁾	< 0.4 %	200 µl
MGM033	10 - 200 µl	1.0 µl	<+/- 0.9 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	200 µl
MGM035	20 - 350 µl	5.0 µl	<+/- 1.0 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	350 µl
Pipettes Acura® electro 956, 12 channels							
MGM023	0.5 - 10 µl	0.05 µl	<+/- 3.5 % ²⁾	<+/- 1.0 %	< 3.0 % ²⁾	< 0.7 %	Ultra 10 µl
MGM029	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.8 %	< 1.0 % ²⁾	< 0.4 %	200 µl
MGM025	10 - 200 µl	1.0 µl	<+/- 0.9 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	200 µl
MGM027	20 - 350 µl	5.0 µl	<+/- 1.0 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	350 µl

Values obtained in Advanced Mode with double-distilled water at a constant temperature ($\pm 0.5^\circ\text{C}$) between 20 and 25 °C, according to ISO 8655. Average yield

Code	Volume	Division	Inexactitud (E%)		Precision (CV%)		Tip
			Min volume	Max volume	Min volume	Max volume	
Initial pack Micropipetas Acura® electro 926XS							
MGM008	0.1 - 2 µl	0.01 µl	<+/- 2.5 % ¹⁾	<+/- 0.9 %	< 2.5 % ¹⁾	< 0.8 %	Ultra 10 µl
MGM009	0.5 - 10 µl	0.05 µl	<+/- 1.2 % ²⁾	<+/- 0.6 %	< 1.5 % ²⁾	< 0.35 %	Ultra 10 µl
MGM010	0.5 - 10 µl	0.05 µl	<+/- 1.2 % ²⁾	<+/- 0.6 %	< 1.7 % ²⁾	< 0.4 %	200 µl
MGM011	1 - 20 µl	0.1 µl	<+/- 1.2 % ²⁾	<+/- 0.5 %	< 1.2 % ²⁾	< 0.3 %	200 µl
MGM012	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.7 % ²⁾	< 0.25 %	200 µl
MGM014	5 - 100 µl	0.5 µl	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.7 % ²⁾	< 0.2 %	200 µl
MGM015	10 - 200 µl	1.0 µl	<+/- 1.0 % ²⁾	<+/- 0.4 %	< 0.6 % ²⁾	< 0.15 %	200 µl
MGM016	50 - 1000 µl	5.0 µl	<+/- 0.8 % ²⁾	<+/- 0.4 %	< 0.4 % ²⁾	< 0.1 %	1000 µl
Initial pack Micropipetas Acura® electro 936							
MGM017	0.1 - 2 ml	0.01 ml	<+/- 1.5 % ²⁾	<+/- 0.5 %	< 0.6 % ²⁾	< 0.15 %	2 ml
MGM018	0.25 - 5 ml	0.05 ml	<+/- 1.2 % ²⁾	<+/- 0.5 %	< 0.6 % ²⁾	< 0.15 %	5 ml
MGM019	0.5 - 10 ml	0.05 ml	<+/- 1.0 % ²⁾	<+/- 0.5 %	< 0.5 % ²⁾	< 0.15 %	10 ml
Initial pack Pipetas Acura® electro 956, 8 canales							
MGM032	0.5 - 10 µl	0.05 µl	<+/- 3.5 % ²⁾	<+/- 1.0 %	< 3.0 % ²⁾	< 0.7 %	Ultra 10 µl
MGM038	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.8 %	< 1.0 % ²⁾	< 0.4 %	200 µl
MGM034	10 - 200 µl	1.0 µl	<+/- 0.9 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	200 µl
MGM036	20 - 350 µl	5.0 µl	<+/- 1.0 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	350 µl
Initial pack pipetas Acura® electro 956, 12 canales							
MGM024	0.5 - 10 µl	0.05 µl	<+/- 3.5 % ²⁾	<+/- 1.0 %	< 3.0 % ²⁾	< 0.7 %	Ultra 10 µl
MGM030	2.5 - 50 µl	0.25 µl	<+/- 1.0 % ²⁾	<+/- 0.8 %	< 1.0 % ²⁾	< 0.4 %	200 µl
MGM026	10 - 200 µl	1.0 µl	<+/- 0.9 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	200 µl
MGM028	20 - 350 µl	5.0 µl	<+/- 1.0 % ²⁾	<+/- 0.6 %	< 0.6 % ²⁾	< 0.25 %	350 µl

Values obtained in Advanced Mode with double-distilled water at a constant temperature ($\pm 0.5^\circ\text{C}$) between 20 and 25 °C, according to ISO 8655. Average yield at: 1) 0.5 µl, 2) 10% of nominal volume



MGP - Electronic pipettes, modules

Module vol short for Acura electro



Code	Vol. range	Type of tip
Reduced handle length		
MGP022	0.1 - 2 μ l	Ultra 10 μ l
MGP026	0.5 - 10 μ l	Ultra 10 μ l
MGP024	0.5 - 10 μ l	200 μ l
MGP009	1 - 20 μ l	200 μ l
MGP012	2.5 - 50 μ l	200 μ l
MGP007	5 - 100 μ l	200 μ l
MGP019	10 - 200 μ l	200 μ l
MGP014	50 - 1000 μ l	1000 μ l
Normal handle length		
MGP023	0.1 - 2 μ l	Ultra 10 μ l
MGP027	0.5 - 10 μ l	Ultra 10 μ l
MGP025	0.5 - 10 μ l	200 μ l
MGP008	1 - 20 μ l	200 μ l
MGP011	2.5 - 50 μ l	200 μ l
MGP006	5 - 100 μ l	200 μ l
MGP018	10 - 200 μ l	200 μ l
MGP013	50 - 1000 μ l	1000 μ l



Module vol for Acura electro



Code	Vol. range	Type of tip
MGP003	0.1 - 2 ml	2 ml
MGP020	0.25 - 5 ml	5 ml
MGP001	0.5 - 10 ml	10 ml



Microvolumes of 8 and 12 channels



Code	Vol. range	Type of tip
8 channels		
MGP021	0.5 - 10 μ l	Ultra 10 μ l
MGP002	2.5 - 50 μ l	200 μ l
MGP004	10 - 200 μ l	200 μ l
MGP005	20 - 350 μ l	350 μ l
12 channels		
MGP010	0.5 - 10 μ l	Ultra 10 μ l
MGP015	2.5 - 50 μ l	200 μ l
MGP016	10 - 200 μ l	200 μ l
MGP017	20 - 350 μ l	350 μ l



MGR - Other type pipettes

Acura® dilute 810 (Pipette dilution 1:10)



- Two pre-calibrated fixed volumes - no adjustment required.
- Smooth activation, excellent ergonomics.
- Interchangeable PE nozzle protection filter.
- Justip™ system for height adjustment of the ejector of tips.
- Independent calibration for each volume. Fully autoclavable at 121°C / 250 °F.

Code	Inaccuracy (E%)	Imprecision (CV %)	Volume
MGR001	<± 0.5%	< 0.4%	1 ml
	<± 2.0%	< 2.5%	0.1 ml

Values obtained with double-distilled water at a constant temperature (\pm 0.5°C) between 20 and 25°C according to ISO 8655.





▶ MGR - Other type pipettes

▶ Acura® capillar 846 (micropipette positive displacement)



- 1 | Gravity volume adjustment. The tip is a glass capillary tube.
- 2 | Corresponding colour codes for pipette, plunger and capillary.
- 3 | Stainless steel plunger with Ethylene-TetraFluoroEthylene (ETFE) tip.



set volumes

Code	Volume	Inaccuracy (%E)			Imprecision (%CV)		
		Vol. min	Vol. medio	Vol. max	Vol. min	Vol. medio	Vol. max
MGR002	1-2-3-4-5 µl	<± 3.0%	<± 2.3%	<± 2.0%	< 2.5%	< 2.0%	< 1.2%
MGR003	5-10-15-20-25 µl	<± 1.5%	<± 1.2%	<± 0.8%	< 1.0%	< 0.9%	< 0.6%
MGR004	10-20-30-40-50 µl	<± 1.5%	<± 1.0%	<± 0.7%	< 0.8%	< 0.7%	< 0.4%
MGR005	60-75-80-90-100 µl	<± 0.7%	<± 0.7%	<± 0.7%	< 0.6%	< 0.5%	< 0.3%
MGR006	100-120-150-175-200 µl	<± 0.7%	<± 0.7%	<± 0.7%	< 0.3%	< 0.3%	< 0.3%

▶ MGT - Stands

▶ Stand



DIGIPETTE

- 1 | Made of acrylic, allows to place up to 6 pipettes.

Code	Description
MGT001	Stand for 6 pipettes

▶ Work station shelf 332



- 1 | Two positions.
- 2 | Adapted for micro, macro and multi-channel pipettes.
- 3 | Fits all Calibra and Acura instruments including Acura 865 micro-dispensing pipettes.
- 4 | Supplied with self-adhesive strip.

Code	Description
MGT004	Work station shelf 332 for 2 pipettes
MGT006	Work station shelf 332 for 2 pipettes (pack of 4 units)



MGT - Stands

Work station 337



- 1 | 7 positions. Holds single channel pipettes of most brands.
- 2 | Space-saving pipette holder.
- 3 | Robust polyamide material.
- 4 | Five attractive pastel colours.

Code	Colour	Pack
MGT009	Light grey	1/box
MGT007	Pale pink	1/box
MGT010	Glacier blue	1/box
MGT008	Mint green	1/box
MGT011	Vanilla yellow	1/box



Work station 340



- 1 | 3 positions. Suitable for micro, macro and/or multichannel Socorex pipettes and the Acura 846 positive displacement pipettes.
- 2 | Each instrument is easily accessible.
- 3 | Made of polyamide material.

Code	Colour	Pack
MGT012	Light Grey	1/box



Soporte Twister universal 336



- 1 | 6 positions. Fluid 360° rotation.
- 2 | Easy reach of the instruments.
- 3 | Concept adapted to most brands of pipettes.
- 4 | Interchangeable disks.
- 5 | Seven translucent colours.

Code	Colour	Pack
MGT013	Zaphire blue	1/box
MGT014	Emerald green	1/box
MGT015	Topaz orange	1/box
MGT016	Quartz grey	1/box
MGT017	Rubi red	1/box
MGT018	Diamond white	1/box
MGT019	Citrine yellow	1/box



Work station for Stepper 411



- 1 | Allows you to store adjustment buttons and an Ecostep™ syringe adapter.

Code	Pack
MGT020	1/box





MGT - Stands

▶ Charging stand 3 positions, Acura electro



- 1 | The pipette or battery holder allows up to 3 pipettes or batteries to be charged and stored simultaneously.
- 2 | Each position is equipped with a red/green charging LED.
- 3 | Power supply not included (REF: MGY046)

Code	Descripción
MGT021	For pipettes or batteries
MGT022	For batteries

▶ Bench-top rack



Code	Description
MGT502	For six VITLAB® micropipettes

▶ MGY - Accessories

▶ CHART 3: 'Accessories for automatic pipettes Acura 865, 846 and electro'

		Model
		865 846 Electro
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Code	Description	Espacio	Pack
MGY001	Manifold 4 channels, luer lock	9 mm	1/box
MGY002	Manifold 8 channels, luer lock	20 mm	1/box
MGY040	Cannula PTFE		



Code	Description	Capacity
MGY041	Reservoir PTFE, luer	30 mL
MGY043	Reservoir PP, luer	30 mL



Code	Description
MGY044	Inlet valve cap




= Accessory **compatible** with the indicated equipment



MGY - Accessories

CHART 3: 'Accessories for automatic pipettes Acura 865, 846 and electro'

Model
865 846 Electro

Code	Description	Pack	Model				
			865	846	Electro		
	MGY045 Vial holder with feed needle and lock		<input type="checkbox"/>				
	MGY054 Power handle 4.8 V	1		<input type="checkbox"/>			
	MGY055 Power handle 4.8 V duopack	2		<input type="checkbox"/>			
	MGY046 Power supply 100-240 V	-		<input type="checkbox"/>			
Code	Description	Vol.	Colour	Pack	Model		
					865	846	Electro
	MGY007 Capillary tube	1-5 µl	White	200/box	<input type="checkbox"/>		
	MGY008 Capillary tube	5-25 µl	White	200/box	<input type="checkbox"/>		
	MGY009 Capillary tube	10-50 µl	Green	200/box	<input type="checkbox"/>		
	MGY010 Capillary tube	60-100 µl	Blue	200/box	<input type="checkbox"/>		
	MGY011 Capillary tube	100-200 µl	Red	200/box	<input type="checkbox"/>		
Code	Description	Vol.	Colour	Pack	Model		
					865	846	Electro
	MGY012 Spare plunger	1-5 µl	Acero	5/box	<input type="checkbox"/>		
	MGY013 Spare plunger	5-25 µl	White	5/box	<input type="checkbox"/>		
	MGY014 Spare plunger	10-50 µl	Green	5/box	<input type="checkbox"/>		
	MGY015 Spare plunger	60-100 µl	Blue	5/box	<input type="checkbox"/>		
	MGY016 Spare plunger	100-200 µl	Red	5/box	<input type="checkbox"/>		

= Accessory compatible with the indicated equipment

CHART 4: 'Accessories for pipettes Acura manual and Calibra'

Model
Acura Calibra



Code	Description	Dim. (lxØ)	Pack	Model	
				Acura	Calibra
	MGY004 Filter PP for Acura electro 936, 2 and 5 mL Filter PP for Acura manual 835, 2 and 5 mL	20x7.5 mm	250	<input type="checkbox"/>	
	MGY005 Filter PP for Calibra digital 832, 10 mL Filter PP for Acura electro 936, 10 mL Filter PP for Acura manual 835, 10 mL	30x10.5 mm	100		<input type="checkbox"/> <input type="checkbox"/>
	MGY003 Filter PP for Calibra digital 832, 2 mL	22x7 mm	250	<input type="checkbox"/>	
	MGY006 Filter PP for Acura dilute 810	6.3x2.5mm	100	<input type="checkbox"/>	

CHART 5: 'Accessories for pipettes Acura manual and Calibra'

Model
810 815 825 826XS 832 835 855

Code	Description	Pack	Model						
			810	815	825	826XS	832	835	855
	MGY020 Service calibration seal	100/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	MGY021 Service calibration seal	25/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>



MGY - Accessories

CHART 5: 'Accessories for pipettes Acura manual and Calibra'

Model

810 815 825 826XS 832 835 855



Code	Cap Colour	Pack	810	815	825	826XS	832	835	855
MGY022*	Mixed	14/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY023	White	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY024	Green	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY025	Lemon	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY026	Blue	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY027	Red	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY028	Grey	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY029	Vanilla	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY030	Yellow	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY031	Orange	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY032	Pink	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY033	Fucsia	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY034	Violet	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY035	Glacier blue	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
MGY036	Mint green	6/box	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>

*Multi-coloured assortment



Code	Description	810	815	825	826XS	832	835	855
MGY037	Adapter straw tip for 5 mL for Acura 835 of 5 mL (code MGB068)							<input type="checkbox"/>



Code	Description	810	815	825	826XS	832	835	855
MGY038	Adapter for Pasteur pipettes. For Acura manual 835 Acura electro 936 and Calibra digital 832, of 2 mL						<input type="checkbox"/>	<input type="checkbox"/>
MGY039	Adapter for Pasteur pipettes. For Acura manual 835 Acura electro 936, of 5 mL						<input type="checkbox"/>	<input type="checkbox"/>

Code	Description
MGY047	Calibration and QC certificate, model micro
MGY048	Calibration and QC certificate, model macro
MGY050	Calibration and QC certificate, model for 8 channels
MGY051	Calibration and QC certificate, model for 12 channels
MGY056	Certificado ENAC, pipetas monocanal vol. variable
MGY057	ENAC certificate, vol. variable pipettes monochanel
MGY058	ENAC certificate, fix vol. pipettes monochanel

 = Accessory **included** with the indicated equipment = Accessory **compatible** with the indicated equipment**Membrane filter**

Code	Thickness
MGY501	0.2 µm
MGY503	0.3 µm



▶ MJB - 10 μ L

▶ Capacity 0.5 - 10 μ L

1 | Gilson® type neutral colour.

Kartell

Code	Packaging
MJB001	Bulk (b/1000)
MJB006	Rack (p/96)
MJB010	Refill (p/5)



▶ Capacity 0.5 - 10 μ L

1 | Eppendorf® Cristall type neutral colour.

Kartell

Code	Packaging
MJB002	Bulk (b/1000)
MJB007	Rack (p/96)
MJB009	Refill (p/5)



▶ Capacity 0.5 - 10 μ L

1 | Eppendorf® Cristall type neutral colour.

Kartell

Code	Packaging
MJB003	Rack (p/96)



▶ Capacity 0.5 - 10 μ L

- 1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
- 2 | Eppendorf® Cristall type neutral colour.

Kartell

Code	Packaging
MJB004	Rack (p/96)



▶ Capacity 0.5 - 10 μ L

- 1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
- 2 | Gilson® type neutral colour.

Kartell

Code	Packaging
MJB005	Rack (p/96)





▶ MJB - 10 µL

▶ Capacity 0.1 - 10 µL



DIGIPETTE

1 | Made of polypropylene, totally autoclavable.

Code	Colour	Pack
MJB011	Neutral	1000 us. / bag

▶ 10 µL

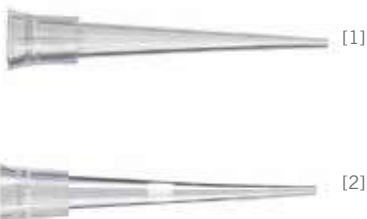


- 1 | Superior quality, autoclavable. They come in different formats: bags, racks and tip-fill systems.
- 2 | Batch to batch consistency
- 3 | Nuclease-, endotoxin- and ATP-free certificates
- 4 | Extensive compatibility with all brands of micropipettes

Code	Description	Tip	Pack
No sterile			
[1] MJB018	Natural ultra-micro	Thin	B/1000
[1] MJB023	Natural ultra-micro	Thin	12xR/96
[1] MJB024	Natural ultra-micro*	Thin	13xR/96
[1] MJB026	Natural ultra-micro	Thin	12xR/96
[2] MJB012	Natural micro	Thin	B/1000
[2] MJB016	Natural micro	Thin	10xR/96
[3] MJB015	Natural para gel	Thin	4xR/204
[6] MJB028	Natural ultra-micro**	Thin	12xR/16
[7] MJB030	Natural ultra-micro**	Thin	12xR/16
Sterile			
[4] MJB027	Natural ultra-micro	Thin	12xR/96
[5] MJB022	Natural micro largas	Thin	12xR/96
[6] MJB029	Natural ultra-micro**	Thin	12xR/96
[7] MJB031	Natural ultra-micro**	Thin	12xR/96

*Tipfill system | ** Low retention

▶ 10 µL - High quality HQ



DIGIPETTE

- 1 | They are certified and completely free of DNAsas, RNAsas, human DNA, endotoxins, pyrogens and PCR inhibitors.
- 2 | Sterile tips* are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards.

Code	Low retention	Sterile*	Packaging
Without filter			
[1] MJB032	-	-	B/1000
[1] MJB034	-	Yes	R/96
[1] MJB035	Yes	Yes	R/96
With filter			
[2] MJB033	-	-	B/1000
[2] MJB036	-	Yes	R/96



▶ MJD - 20-30 μ L

▶ Capacity 2 - 20 μ L

1| Eppendorf® type neutral colour.

Kartell



Code	Packaging
MJD001	Bulk (b/1000)
MJD004	Rack (p/96)
MJD008	Refill (p/5)

▶ Capacity 1 - 30 μ L

1| Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
2| Gylson® type neutral colour.

Kartell



Code	Packaging
MJD002	Rack (p/96)

▶ Capacity 1 - 30 μ L

1| Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
2| Eppendorf® type neutral colour

Kartell



Code	Packaging
MJD003	Rack (p/96)

▶ 20 μ L

SOCOREX
SWISS

1| Superior quality, autoclavable. They come in different formats: bags, racks and tip-fill systems.
2| Batch to batch consistency
3| Nuclease-, endotoxin- and ATP-free certificates
4| Extensive compatibility with all brands of micropipettes



[1] - L.: 49.6 cm

Code	Description	Tip	Pack
Sterile			
[1] MJD005	Natural with filter	Bevel	10xR/96

▶ 20 μ L - High quality HQ

DIGIPETTE

1| They are certified and completely free of DNAsas, RNAsas, human DNA, endotoxins, pyrogens and PCR inhibitors.
2| Sterile tips* are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards.



[1]

Code	Low retention	Sterile*	Packaging
With filter			
[1] MJD010	-	-	B/1000
[1] MJD011	-	Yes	R/96
[1] MJD012	Yes	Yes	R/96



▶ MJG - 100 -150 μ L

▶ Capacity 5 - 100 μ L



Kartell

- 1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
- 2 | Eppendorf® type neutral colour.

Code	Packaging
MJG001	Rack (p/96)

▶ Capacity 1 - 100 μ L



Kartell

- 1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
- 2 | Gilson® type neutral colour.

Code	Packaging
MJG002	Rack (p/96)

▶ 100 μ L



[1] - L.: 49.6 cm

SOCOREX
SWISS

- 1 | Superior quality, autoclavable. Available in different formats: bags, racks and tipfill systems
- 2 | Lot-by-lot consistency. Certified free of nucleases, endotoxins and ATP
- 3 | Extensive compatibility with all brands of micropipettes

Code	Description	Tip	Pack
Sterile			
[1] MJG003	Natural with filter	Bevel	10xR/96

▶ 100 μ L - High quality HQ



[1]

DIGIPETTE

- 1 | They are certified and completely free of DNAsas, RNAsas, human DNA, endotoxins, pyrogens and PCR inhibitors.
- 2 | Sterile tips* are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards.

Code	Low retention	Sterile*	Packaging
With filter			
[1] MJG005	-	-	B/1000
[1] MJG006	-	Yes	R/96

▶ MJJ - 200 μ L

▶ Capacity 5 - 200 μ L



Kartell

- 1 | Gilson® type neutral colour.

Code	Packaging
MJJ001	Bulk (b/1000)
MJJ012	Rack (p/96)
MJJ014	Refill (p/5)



▶ MJJ - 200 μ L

▶ Capacity 200 μ L

Kartell

- 1| Neutral colour, fine tip type for loading gels.
- 2| Sterile in the rack presentation.

Code	Packaging
MJJ002	Bulk (b/1000)
MJJ015	Rack (p/96)



▶ Capacity 5 - 200 μ L

Kartell

- 1| Gilson® type yellow colour.

Code	Packaging
MJJ003	Bulk (b/1000)



- 1| Universal type yellow colour.
- 2| The MJJ007 code is graduated.

Kartell

Code	Packaging
MJJ004	Bulk (b/1000)
MJJ011	Rack (p/96)
MJJ013	Refill (p/5)
MJJ007	Bulk (b/1000)



▶ Capacity 5 - 200 μ L

Kartell

- 1| Oxford® type neutral colour

Code	Packaging
MJJ005	Bulk (b/1000)



- 1| MLA® type neutral colour

Kartell

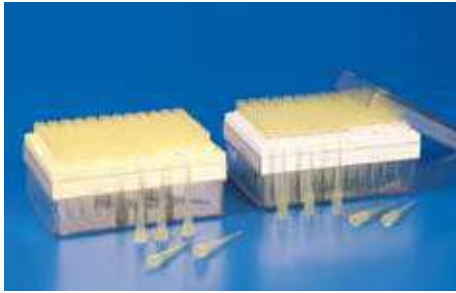
Code	Packaging
MJJ006	Bulk (b/1000)





MJJ - 200 µL

Capacity 2 - 200 µL



Capacity 200 µL



[1] - L.: 49.6 cm



[2] - L.: 49.6 cm



[3] - L.: 49.6 cm



[4] - L.: 82.5 cm



[5] - L.: 51.2 cm



[6] - L.: 83.8 cm



[7] - L.: 49.6 cm

Kartell

1 | Yellow colour, Gilson® type MJJ008 code and universal type MJJ009 code.

Code	Packaging
MJJ008	Rack PP (p/96)
MJJ009	Rack PP (p/96)

Kartell

1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 minutes.

2 | Universal type neutral colour.

Code	Packaging
MJJ010	Rack (p/96)

DIGIPETTE

1 | Made of polypropylene, totally autoclavable..

Code	Colour	Pack
MJJ016	Amarilla	1000 us. / bag

SOCOREX SWISS

1 | Superior quality, autoclavable. Available in different formats: bags, racks and tipfill systems

2 | Lot-by-lot consistency

3 | Nuclease-, endotoxin- and ATP-free certificates

4 | Extensive compatibility with all brands of micropipettes

Code	Description	Tip	Packaging
No sterile			
[1] MJJ019	Natural universal	Bevel	B/1000
[1] MJJ018	Natural universal	Bevel	10xR/96
[1] MJJ034	Natural universal*	Bevel	10xC/96
[2] MJJ030	Standard yellow	Bevel	B/1000
[2] MJJ031	Standard yellow	Bevel	10xR/96
[3] MJJ029	Yellow for calibra**	Thin	10xB/500
[3] MJJ028	Yellow for calibra**	Thin	10xR/96
[4] MJJ032	Natural capilar type	Thin	6xR/96
[7] MJJ038	Natural low retention	Thin	10xR/96
Sterile			
[1] MJJ035	Natural standard	Bevel	10xC/96
[2] MJJ037	Standard yellow	Bevel	10xR/96
[5] MJJ036	Natural universal	Bevel	10xR/96
[6] MJJ033	Natural, low	Thin	6xR/96
[7] MJJ039	Natural low retention	Thin	10xR/96

*System tipfill / **Low retention



MJJ - 200 μ L

200 μ L - High quality HQ

DIGIPETTE

- 1| They are certified and completely free of DNAsas, RNAsas, human DNA, endotoxins, pyrogens and PCR inhibitors.
 2| Sterile tips* are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards.

Code	Low retention	Sterile*	Packaging
Without filter			
[1] MJJ040	-	-	B/1000
[1] MJJ042	-	Yes	R/96
[1] MJJ043	Yes	Yes	R/96
With filter			
[2] MJJ041	-	-	B/1000
[2] MJJ044	-	Yes	R/96



200 μ L

VITLAB

Code	Volume
MJJ501	2-200 μ L



MJL - 300 - 350 μ L

Capacity 10 - 300 μ L

Kartell

- 1| Eppendorf® type neutral colour

Code	Pack
MJL001	Bulk (b/1000)
MJL005	Rack (p/96)
MJL007	Refill (p/5)



Capacity 2 - 300 μ L

Kartell

- 1| Biohit® type neutral colour

Code	Pack
MJL002	Bulk (b/1000)
MJL004	Rack (p/96)
MJL006	Refill (p/5)





▶ MJL - 300 - 350 μ L

▶ Capacity 5 - 300 μ L



Kartell

- 1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
- 2 | Eppendorf® type neutral colour.

Code	Pack
MJL003	Rack (96p)

▶ Capacity 300 μ L



[1] - L.: 58.8 cm



[2] - L.: 58.8 cm

- 1 | Top quality, autoclavable. Available in different formats: bags, holders and filling systems
- 2 | Batch by batch consistency
- 3 | Nuclease, endotoxin and ATP absence certificates
- 4 | Extended compatibility with all brands of micropipettes

Code	Description	Tip	Pack
No sterile			
[1] MJL011	Natural standard	Thin	B/1000
[1] MJL010	Natural standard	Thin	10xR/96
Sterile			
[2] MJL008	Natural standard	Beveled	10xR/96

▶ MJN - 1000 μ L

▶ Capacity 100 - 1000 μ L



Kartell

- 1 | Gilson® type colour blue

Code	Pack
MJN001	Bulk (b/1000)
MJN012	Rack (p/96)
MJN014	Refill (p/5)

▶ Capacity 200 - 1000 μ L



Kartell

- 1 | Universal type colour blue

Code	Pack
MJN002	Bulk (b/1000)



▶ MJN - 1000 μ L

▶ Capacity 100 - 1000 μ L

Kartell

1 | Universal type colour blue

Code	Pack
MJN003	Bulk (b/1000)
MJN011	Rack (p/96)
MJN013	Refill (p/5)



▶ Capacity 250 - 1000 μ L

Kartell

1 | Oxford® type neutral colour

Code	Pack
MJN004	Bulk (b/1000)



▶ Capacity 250 - 1000 μ L

Kartell

1 | Beckman®. type neutral colour

Code	Pack
MJN005	Bulk (b/1000)



▶ Capacity 250 - 1000 μ L

Kartell

1 | Oxford® type colour blue

Code	Pack
MJN006	Bulk (b/1000)



▶ Capacity 200 - 1000 μ L

Kartell

1 | MLA®.type neutral colour

Code	Pack
MJN007	Bulk (b/1000)





▶ MJN - 1000 µL

▶ Capacity 100 - 1000 µL



Kartell

1 | Universal type colour blue

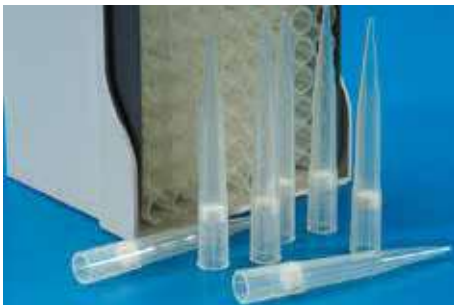
Code	Pack
MJN008	Rack PP (p/96)



Kartell

1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
2 | Eppendorf® type neutral colour

Code	Pack
MJN009	Rack (p/96)



Kartell

1 | Sterilized with Gamma radiation, they are autoclavable at +121 °C for 20 min.
2 | Eppendorf®, Gilson® type neutral colour

Code	Pack
MJN010	Rack (p/96)

▶ Capacity 1000 µL



1 | Superior quality, autoclavable. Available in different formats: bags, racks and tipfill systems
2 | Lot-by-lot consistency
3 | Nuclease-, endotoxin- and ATP-free certificates
4 | Extensive compatibility with all brands of micropipettes



[1] - L.: 88.9 cm



[2] - L.: 75.9 cm



[3] - L.: 75.9 cm



[4] - L.: 88.9 cm



[5] - L.: 88.9 cm

Code	Description	Tip	Packaging
No sterile			
[1] MJN017	Natural standard	Thin	B/1000
[1] MJN029	Natural standard	Thin	6xR/96
[1] MJN032	Natural standard *	Thin	5xR/96
[1] MJN033	Empty box <i>tipfill</i>	-	C/6
[2] MJN018	Standard blue	Beveled	B/1000
[2] MJN031	Standard blue	Beveled	6xR/96
[3] MJN022	Natural standard	Beveled	B/1000
[3] MJN030	Natural standard	Beveled	6xR/96
[5] MJN035	Natural low retention	Thin	6xR/96
Sterile			
[1] MJN034	Natural standard	Thin	6xR/96
[2] MJN037	Standard blue	Beveled	6xR/96
[4] MJN028	Natural standard	Beveled	6xR/96
[5] MJN036	Natural low retention	Thin	6xR/96

*Tipfill system



▶ MJN - 1000 μ L

▶ Capacity 1000 μ L

DIGIPETTE

1| Made of polypropylene, totally autoclavable.

Code	Colour	Pack
MJN015	Blue	Bulk (b/500)

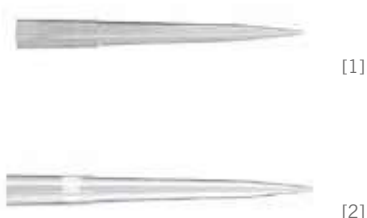


▶ 1000 μ L - High quality HQ

DIGIPETTE

1| They are certified and completely free of DNAsas, RNAsas, human DNA, endotoxins, pyrogens and PCR inhibitors.
 2| Sterile tips* are sterilized by gamma radiation in compliance with SAL 10-6 and ISO 11137 standards.

Code	Low retention	Sterile*	Pack
Without filter			
[1] MJN038	-	-	B/1000
[1] MJN040	-	Yes	R/96
[1] MJN041	Yes	Yes	R/96
With filtro			
[2] MJN039	-	-	B/1000
[2] MJN042	-	Yes	R/96



▶ 1000 μ L

VITLAB

Code	Volume
MJN503	50 - 1000 μ L
MJN504	0.5 - 5 mL
MJN505	1 - 10 mL
MJN506	50 - 1000 μ L


 page
[517]

▶ MJQ - 2 - 5 - 10000 mL

▶ Capacity 1 - 5 mL

Kartell

1| Finnipipette® .type neutral colour

Code	Pack
MJQ001	Bulk (b/250)
MJQ007	Rack (p/50)





▶ MJQ - 2 - 5 - 10000 mL

▶ Capacity 2 - 10 mL



Kartell

1 | Gilson® type neutral colour

Code	Pack
MJQ002	Bulk (b/100)
MJQ008	Rack (p/25)

▶ Capacity 1 - 5 mL



Kartell

1 | Eppendorf®, Biochit®, Oxford.® type neutral colour

Code	Pack
MJQ003	Bulk (b/250)
MJQ006	Rack (p/50)

▶ Capacity 1 - 5 mL



Kartell

1 | Gilson®, Socorex®, Nichiryo® type, light blue

Code	Pack
MJQ004	Bulk (b/250)
MJQ005	Rack (p/50)

▶ Capacity 5 - 10 mL



DIGIPETTE

1 | Made of polypropylene, totally autoclavable.

Code	Capacity	Pack
MJQ009	5 mL	Bulk (b/300)
MJQ020	10 mL	Bulk (b/100)



▶ MJQ - 2 - 5 - 10000 mL

▶ Straw tips PP sterile



- 1| For Acura 810 dilution pipettes.
- 2| Supplied sterile in resealable bags.

Code	Material	Vol.	LxØ mm	Pack
MJQ019	PP, esterilizada	1.1 ml	190 x 4	40x25 / box

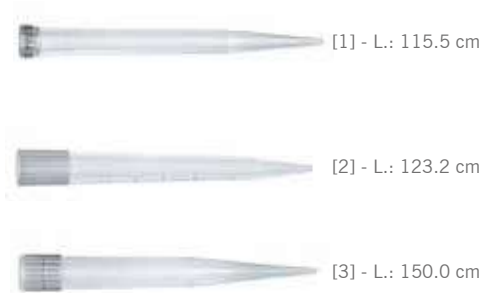


▶ Capacity 2 - 5 - 10 mL



- 1| Superior quality, autoclavables. Available in different formats: bags, racks and tipfill systems
- 2| Lot-by-lot consistency
- 3| Nuclease-, endotoxin- and ATP-free certificates
- 4| Extensive compatibility with all brands of micropipettes

Code	Description	Tip	Pack
No sterile			
[1] MJQ010	Macropunta, 2 mL	Thin	2xB/250
[2] MJQ011	Macropunta, 5 mL	Thin	2xB/250
[2] MJQ014	Macropunta, 5 mL	Thin	2xR/50
[3] MJQ012	Macropunta, 10 mL	Thin	3xB/100



▶ Pipetas Pasteur



- 1| For 2 and 5 mL Acura manual/electro and Calibra macropipettes, with their respective adapters

Code	Material	Vol.	LxØ mm	Pack
MJQ015	Glass	2 ml	150 x 7	250/ box
MJQ017	Glass	2 ml	230 x 7	250/ box
MJQ016	Glass with filter	2 ml	150 x 7	250/ box
MJQ018	Glass with filter	2 ml	230 x 7	250/ box










Compatibility HQ tip table

Digipette	Model	Capacity	10 μ l					20 μ l			100 μ l			200 μ l			1.000 μ l				
			Non filter tips		Filter tips			Filter tips			Filter tips			Non filter tips		Filter tips	Non filter tips		Filter tips		
			MJB032	MJB034	MJB035	MJB033	MJB036	MJD010	MJD011	MJD012	MJC005	MJC006	MJJ040	MJJ042	MJJ043	MJJ041	MJJ044	MJN038	MJN040	MJN041	MJN039
<i>ECO</i>	MGB019	0,2-2 ul																			
	MGB020	1,0-10 ul																			
	MGB021	2,0-20 ul																			
	MGB022	20-100 ul																			
	MGB023	50-200 ul																			
	MGB024	100-1000 ul																			
<i>Autoclavable vol variable</i>	MGB001	0,1-2,5 ul	•	•	•	•	•														
	MGB002	0,5-10 ul	•	•	•	•	•														
	MGB003	2,0-20 ul										•	•	•	•						
	MGB004	5,0-50 ul								•	•	•	•	•	•						
	MGB005	10-100 ul								•	•	•	•	•	•						
	MGB006	20-200 ul										•	•	•	•	•					
	MGB007	100-1000 ul														•	•				
<i>Autoclavable fix vol</i>	MGD001	10 ul	•	•	•	•	•	•	•									•	•	•	•
	MGD002	20 ul						•	•	•											
	MGD003	25 ul											•	•	•						
	MGD004	50 ul								•	•	•	•	•	•						
	MGD005	100 ul								•	•	•	•	•	•						
	MGD006	200 ul										•	•	•	•	•					
	MGD007	500 ul																•	•	•	•
	MGD008	1000 ul																•	•	•	•
<i>Autoclavable 8 channels</i>	MGG001	0,5-10 ul	•	•	•	•	•														
	MGG002	5,0-50 ul								•	•	•	•	•							
	MGG003	10-100 ul								•	•	•	•	•							
	MGG004	20-200 ul										•	•	•	•	•					
	MGG005	30-300 ul																			
<i>Autoclavable 12 channels</i>	MGG006	0,5-10 ul	•	•	•	•	•														
	MGG007	5,0-50 ul								•	•	•	•	•							
	MGG008	10-100 ul								•	•	•	•	•							
	MGG009	20-200 ul										•	•	•	•	•					
<i>Dosypette</i>	MCG010	30-300 ul																			
	MGM039	0,5-10 ul	•	•	•	•	•														
<i>Accumax</i>	MGM040	5,0-50 ul						•	•	•	•	•	•	•	•						
	MGM041	30-300 ul																			
	MGM042	100-1000 ul																			
	<i>Smart</i>	MGB010	0,1-2,5 ul	•	•	•	•	•													
MGB011		0,5-10 ul	•	•	•	•	•														
MGB012		2,0-20 ul										•	•	•	•						
MGB013		5,0-50 ul									•	•	•	•	•						
MGB014		10-100 ul									•	•	•	•	•						
MGB015		20-200 ul										•	•	•	•	•					
<i>Socorex</i>	MGB016	100-1000 ul																			
	MGB028	1,0-10 ul	•	•	•	•	•														
	MGB030	2,0-20 ul						•	•	•											
	MGB031	10-100 ul								•	•	•	•	•							
	MGB032	20-200 ul										•	•	•	•						
	MGB026	100-1000 ul																			
	MGB034	0,1-2 ul	•	•	•	•	•														
	MGB035	0,5-10 ul	•	•	•	•	•														
	MGB036	1,0-10 ul						•	•	•											
	MGB037	2,0-20 ul						•	•	•											
<i>Acura manual 825</i>	MGB038	5,0-50 ul								•	•	•	•	•							
	MGB039	10-100 ul								•	•	•	•	•							
	MGB040	20-200 ul										•	•	•	•						
	MGB033	100-1000 ul																			
	MGB050	0,1-2 ul	•	•	•	•	•														
	MGB051	0,5-10 ul	•	•	•	•	•														
	MGB052	1,0-10 ul						•	•	•											
	MGB053	2,0-20 ul						•	•	•											
	MGB054	5,0-50 ul									•	•	•	•	•						
	<i>Acura manual 826 XS</i>	MGB055	10-100 ul								•	•	•	•	•						
MGB056		20-200 ul										•	•	•	•						
MGB057		100-1000 ul																			



Compatibility HQ tip table

Socorex	Model	Capacity	10 µl					20 µl			100 µl		200 µl			1.000 µl					
			Non filter tips		Filter tips			Filter tips			Filter tips		Non filter tips			Filter tips		Non filter tips		Filter tips	
			MJB032	MJB034	MJB035	MJB033	MJB036	MJD010	MJD011	MJD012	MJC005	MJC006	MJJ040	MJJ042	MJJ043	MJJ041	MJJ044	MJN038	MJN040	MJN041	MJN039
<i>Acura manual 815</i> 	MGD014	1 ul	•	•	•	•	•														
	MGD015	5 ul	•	•	•	•	•														
	MGD016	10 ul	•	•	•	•	•														
	MGD017	10Y ul						•	•	•											
	MGD018	15 ul								•	•			•	•	•					
	MGD019	20 ul								•	•			•	•	•					
	MGD020	25 ul								•	•			•	•	•					
	MGD021	30 ul								•	•			•	•	•					
	MGD022	32 ul								•	•			•	•	•					
	MGD023	40 ul								•	•			•	•	•					
	MGD024	50 ul								•	•			•	•	•					
	MGD025	60 ul								•	•			•	•	•					
	MGD026	70 ul								•	•			•	•	•					
	MGD027	75 ul								•	•			•	•	•					
	MGD028	80 ul								•	•			•	•	•					
	MGD029	90 ul								•	•			•	•	•					
	MGD030	100 ul								•	•			•	•	•					
	MGD031	120 ul												•	•	•					
	MGD032	150 ul												•	•	•					
	MGD033	200 ul												•	•	•					
MGD034	250 ul												•	•	•						
MGD035	300 ul												•	•	•						
MGD036	400 ul												•	•	•						
MGD037	500 ul												•	•	•						
MGD038	600 ul												•	•	•						
MGD039	700 ul												•	•	•						
MGD040	750 ul												•	•	•						
MGD041	800 ul												•	•	•						
MGD042	900 ul												•	•	•						
MGD013	1000 ul												•	•	•						
<i>Acura manual 855 12 channels</i> 	MGG016	0,5-10 ul	•	•	•	•	•														
	MGG017	5,0-50 ul								•	•			•	•	•					
	MGG018	20-200 ul												•	•	•					
	MGG019	40-350 ul												•	•	•					
<i>Acura manual 855 8 channels</i> 	MGG020	0,5-10 ul	•	•	•	•	•														
	MGG021	5,0-50 ul								•	•			•	•	•					
	MGG022	20-200 ul												•	•	•					
<i>Acura electro 956 8 channels</i> 	MGM032	10-100 ul	•	•	•	•	•														
	MGM038	20-200 ul								•	•			•	•	•					
	MGM034	30-300 ul												•	•	•					
	MGM036	0,5-10 ul												•	•	•					
<i>Acura electro 956 12 channels</i> 	MGM024	0,5-10 ul																			
	MGM030	2,5-50 ul																			
	MGM026	10-200 ul																			
MGM028	20-350 ul																				

BioHit	Description	MJB032	MJB034	MJB035	MJB033	MJB036	MJD010	MJD011	MJD012	MJC005	MJC006	MJJ040	MJJ042	MJJ043	MJJ041	MJJ044	MJN038	MJN040	MJN041	MJN039	MJN042	
BM-3	Biohit mLine pipeta manual, 0.1-3ul	•	•	•																		
BM-10	Biohit mLine pipeta manual, 1-10ul	•	•	•																		
BM-20	Biohit mLine pipeta manual, 2-20ul						•	•	•				•	•	•							
BM-100	Biohit mLine pipeta manual 10-100ul									•	•		•	•	•							
BM-200	Biohit mLine pipeta manual 20-200ul												•	•	•							
BM-1000	Biohit mLine pipeta manual 100-1000ul												•	•	•						•	•
BU-20	Pipeta Proline Plus 2-20ul						•	•	•				•	•	•							
BU-100	Pipeta Proline Plus 10-100ul									•	•		•	•	•							
BU-200	Pipeta Proline Plus 20-200ul												•	•	•							
BU-1000	Pipeta Proline Plus 100-1000ul												•	•	•						•	•
BH-20	Biohit Proline pipeta manual, 2-20ul						•	•	•				•	•	•							
BH-50	Biohit Proline pipeta manual, 5-50ul												•	•	•							
BH-100	Biohit Proline pipeta manual, 10-100ul									•	•		•	•	•							
BH-200	Biohit Proline pipeta manual, 20-200ul												•	•	•							
BH-1000	Biohit Proline pipeta manual, 100-1000ul												•	•	•						•	•
BH8-50	Biohit Proline pipeta manual 8 canales, 5-50ul in 0.5ul												•	•	•							
BL-120A	5-120ul con adaptador												•	•	•							
BP-100	5-100ul en incrementos de 1ul												•	•	•							
BP-500	10-500ul en incrementos 5ul																				•	•
BP-1000	50-1000ul en incrementos 10ul																				•	•



Compatibility HQ tip table

Capp	Description	10 µl			20 µl			100 µl			200 µl			1.000 µl							
		Non filter tips			Filter tips			Filter tips			Non filter tips			Filter tips							
		MJB032	MJB034	MJB035	MJB033	MJB036	MJD010	MJD011	MJD012	MJC005	MJC006	MJJ040	MJJ042	MJJ043	MJJ041	MJJ044	MIN038	MIN040	MIN041	MIN039	MIN042
	CU-2 Pipeta CappAero, 0.2-2 ul Gris estándar	●	●	●																	
	CU-10 Pipeta CappAero, 1-10 ul Gris estándar	●	●	●																	
	CU-20 Pipeta CappAero, 2-20 ul Gris estándar						●	●	●												
	CU-50 Pipeta CappAero, 5-50 ul, Ecoline, Rojo										●	●	●								
	CU-100 Pipeta CappAero, 10-100 ul, Ecoline, Naranja									●	●	●	●								
	CU-200 Pipeta CappAero, 20-200 ul, Ecoline, Amarillo										●	●	●	●							
	CU-1000 Pipeta CappAero, 100-1000 ul, Ecoline, Azul															●	●	●	●	●	●
	E2000-10 desde 1-10ul Air-Displacement Micropipeta																				
	E2000-20 desde 2-20ul Air-Displacement Micropipeta																				
	E2000-100 desde 10-100ul Air-Displacement Micropipeta									●	●	●	●								
	E2000-200 desde50-200ul Air-Displacement Micropipeta										●	●	●	●							
	E2000-1000 desde 100-1000ul Air-Displacement Micropipeta															●	●	●	●	●	●
	E2100-2.5 1 desde 0.1-2.5ul Air-Displacement Micropipeta																				
	E2100-10 desde 1-10ul Air-Displacement Micropipeta																				
	E2100-20 desde 2-20ul Air-Displacement Micropipeta						●	●	●			●	●	●							
	E2100-100 desde10-100ul Air-Displacement Micropipeta									●	●	●	●								
	E2100-200 desde 20-200ul Air-Displacement Micropipeta										●	●	●	●							
	E2100-1000 desde 100-1000ul Air-Displacement Micropipeta															●	●	●	●	●	●
	ES-1000 Research Plus															●	●	●	●	●	●
	ES-100 Research Plus 10-100ul									●	●	●	●								
	ES-200 Research Plus 20-200ul										●	●	●	●							
	EE-100 desde 10-100ul Pipeta electrónica multicanal									●	●	●	●								
	EE-1000 desde 100-1000ul Pipeta electrónica															●	●	●	●	●	●
	EE-10																				
	EE12-10																				
	FFI-50 FisherBrand Finnpipette I 5-50 ul											●	●	●							
	FFI-200 FisherBrand Finnpipette I 20-200 ul											●	●	●	●						
	FFI-1000 FisherBrand Finnpipette I 100-1000 ul															●	●	●	●	●	●
	P-10 Micropipeta Pipetman Air-Displacement, 1-10 ul	●	●	●	●	●															
	P-20 Micropipeta Pipetman Air-Displacement, 2-20 ul						●	●	●			●	●								
	P-20 Micropipeta Pipetman multicanal Air-Displacement																				
	P-100 Micropipeta Pipetman Air-Displacement, 10-100 ul									●	●	●	●								
	P-200 Micropipeta Pipetman Air-Displacement, 50-200 ul										●	●	●	●							
	P-200 Micropipeta Pipetman multicanal Air-Displacement																				
	P-1000 Micropipeta Pipetman Air-Displacement, 100-1000 ul															●	●	●	●	●	●
	LN-2 Labnet Labpette Discovery 0.2 hasta 2ul autoclavable	●	●	●	●	●															
	LN-20 Labnet Labpette Discovery 2 hasta 20ul autoclavable						●	●	●			●	●	●							
	LN-100 Labnet Labpette Discovery 10 hasta 100ul autoclavable									●	●	●	●								
	LN-200 Labnet Labpette Discovery 20 hasta 200ul autoclavable										●	●	●	●							
	LN-1000 Labnet Labpette Discovery 100 hasta 1000ul autoclavable															●	●	●	●	●	●
	NPX-2 Nichipet EX Autoclavable/UV digital estable 0.2-2ul	●	●	●	●	●															
	NPX-10 Nichipet EX Autoclavable/UV digital estable 1-10ul	●	●	●	●	●															
	NPX-20 Nichipet EX Autoclavable/UV digital estable 2-20ul						●	●	●			●	●	●							
	NPX-100 Nichipet EX Autoclavable/UV digital estable 10-100ul									●	●	●	●								
	NPX-200 Nichipet EX Autoclavable/UV digital estable 20-200ul										●	●	●	●							
	NPX-1000 Nichipet EX Autoclavable/UV digital estable 100-1000ul															●	●	●	●	●	●
	ED1-200R Rainin EDP Pipeta electrónica, 20 - 200 ul										●	●	●	●	●						
	ED2-25R Rainin EDP 2 Pipeta electrónica, 2.5 - 25 ul										●	●	●	●							
	ED2-100R Rainin EDP 2 Pipeta electrónica, 10 - 100 ul									●	●	●	●								
	ED2-1000R Rainin EDP 2 Pipeta electrónica, 100 - 1000 ul										●	●	●	●			●	●	●	●	●
	ED-100R Rainin EDP Plus Pipeta electrónica, 10 - 100 ul									●	●	●	●								
	ED-1000R Rainin EDP Plus Pipeta electrónica, 100 - 1000 ul															●	●	●	●	●	●
	S825-20 Acura® 825 Volumen variable 2-20						●	●	●			●	●	●							
	S825-50 Acura® 825 Volumen variable 5-50										●	●	●	●							
	S825-100 Acura® 825 Volumen variable10-100									●	●	●	●								
	S825-200 Acura® 825 Volumen variable 20-200										●	●	●	●	●						
	S825-1000 Acura® 825 Volumen variable 100-1000															●	●	●	●	●	●



Combination table of tips Qualitix[®] and pipetas Socorex[®]

Selection table Qualitix

Indication table of combination tips Qualitix[®] and pipettes Socorex[®].

		Acura [®] manual and Acura [®] electro												Calibra [®] digital																		
		815					825 / 826 / 926					835 / 936		855 / 956		822		832		852												
		Up to 10 µL	10 µL/15/20 µL	25 to 100 µL	120 to 200 µL	250 to 1000 µL	0.1 - 2 µL	0.5 - 10 µL	1 - 10 µL (Y)	2 - 20 µL	5 - 50 µL	10 - 100 µL	20 - 200 µL	100 - 1000 µL	0.2 - 2 mL	0.5 - 5 mL	1 - 10 mL	0.5 - 10 µL	5 - 50 µL	10 - 100 µL	20 - 200 µL	40 - 350 µL	2 - 20 µL	10 - 100 µL	20 - 200 µL	0.2 - 2 mL	1 - 10 mL	1 - 10 µL	10 - 100 µL	20 - 200 µL		
10 µL Microtips 	Tip																															
	MJB018 - 23 - 24 - 26 - 28 - 29	●					●	●										●														
	MJB012 - 16 - 30 - 31	●					●	●																								
	MJB015	● ²						● ²																							●	
	MJB027	●					●	●											●												●	
MJB022	●					●	●																									
20 - 100 µL Microtips 	Tip																															
	MJD005	●						●	●	● ¹																						
MJG003		●								●	●	● ¹																				
200 µL Microtips 	Tip																															
	MJJ019 - 18 - 34 - 35 - 38 - 39	●	●	●				●	●	●	●	●							●	●	●											
	MJJ030 - 31 - 37	●	●	●					●	●	●	●	●							●	●	●										
	MJJ028 - 29																							●	●	●				●	●	
	MJJ032				●					●	●	●	●																			
	MJJ036			●	●								●										●									
MJJ033				●								●																				
300 - 350 µL Micropuntas 	Punta																															
	MJL011 - 10			●							●	●												●		●	●				●	
MJL008			●									●												● ¹		●					●	
1000 µL Micropuntas 	Punta																															
	MJN017 - 29 - 32 - 34 - 35 - 36				●									●																		
	MJN018 - 31 - 37				●										●																	
	MJN022 - 30				●										●																	
MJN028				●										●																		
2, 5, 10 mL Micropuntas 	Punta																															
	MJQ010																●										●					
	MJQ011 - 14																	●														
MJQ012																		●													●	

¹Hasta volumen máximo de la punta ²> 2 µl solo



Combination tip table of Kartell brand with the majority of micropipettes

Micropipettes brand	Capacity	Colour	In bag CODE	En rack CODE	Refill/Rack CODE	Rack PP CODE	Rack with filter CODE
Beckman®	-1000 µl	Neutral	MJN005	-	-	-	-
Biohit®	0,5 - 10 µl	Neutral	MJB001	MJB006	MJB010	-	MJB005
Biohit®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Biohit®	2 - 300 µl	Neutral	MJJ002	MJL004	MJL006	-	-
Biohit®	10 - 300 µl	Neutral	MJJ001	MJL005	MJL007	-	-
Biohit®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJL003
Biohit®	200 - 1000 µl	Blue	MJN002	-	-	MJN008	MJN009
Biohit®	1000 - 5000 µl	Neutral	MJQ003	MJQ006	-	-	-
Brand®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Brand®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	-
Brand®	1000 - 5500 µl	Neutral	MJQ001	-	-	-	MJN009
Eppendorf®	0,5 - 10 µl	Neutral	MJB002	MJB007	MJB009	-	MJB004
Eppendorf®	2 - 200 µl	Neutral	MJD001	MJD004	MJD008	-	MJD003
Eppendorf®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001 100 µl Neutro
Eppendorf®	10 - 300 µl	Neutral	MJL001	MJL005	MJL007	-	MJL003
Eppendorf®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Eppendorf®	200 - 1000 µl	Blue	MJN002	-	-	MJN008	-
Eppendorf®	1000 - 5000 µl	Neutral	MJQ003	MJQ006	-	-	-
Finnpipette®	0,5 - 10 µl	Neutral	MJB001	MJB006	MJB010	-	MJB005
Finnpipette®	2 - 300 µl	Neutral	MJL002	MJL004	MJL006	-	-
Finnpipette®	1000 - 5500 µl	Neutral	MJQ001	MJQ007	-	-	-
Finnpipette®	1000 - 10000 µl	Neutral	MJQ002	MJQ005	-	-	-
Gilson® (P-2 + P-10)	0,5 - 10 µl	Neutral	MJB001	MJB006	MJB010	-	MJB005
Gilson® (P-20)	0,5 - 10 µl	Neutral	MJB002	MJB007	MJB009	MJB003	MJB004
Gilson® (P-20 a 200)	2 - 200 µl	Yellow	MJJ003	-	-	MJJ008	-
Gilson® (P-20 a 200)	5 - 200 µl	Neutral	MJJ001	MJJ012	MJJ014	-	MJG002
Gilson® (P-500 + 1000)	100 - 1000 µl	Blue	MJN001	MJN012	MJN014	-	MJN010
Gilson® (universal)	2 - 20 µl	Neutral	MJD001	MJD004	MJD008	-	-
Gilson® (universal)	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Gilson® (universal)	2 - 300 µl	Neutral	MJL002	MJL004	MJL006	-	-
Gilson® (universal)	10 - 300 µl	Neutral	MJL001	MJL005	MJL007	-	MJL003
Gilson® (universal)	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Gilson® (universal)	200 - 1000 µl	Blue	MJN002	-	-	MJN008	-
Gilson® (universal)	1000 - 5000 µl	Blue	MJQ004	MJQ005	-	-	-
Gilson® (universal)	1000 - 10000 µl	Neutral	MJQ002	MJQ005	-	-	-
Kartell®	0,5 - 10 µl	Neutral	MJB002	MJB007	MJB009	MJB003	MJB004
Kartell®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Kartell®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Kartell®	200 - 1000 µl	Blue	MJN002	-	-	MJN008	-
Kartell®	1000 - 5000 µl	Neutral	MJQ003	MJQ006	-	-	-
Kartell®	1000 - 10000 µl	Neutral	MJQ002	MJQ005	-	-	-
MLA®	5 - 200 µl	Neutral	MJJ006	-	-	-	-
MLA®	200 - 1000 µl	Neutral	MJJ006	-	-	-	-
Nichiryo®	0,5 - 10 µl	Neutral	MJB002	MJB007	MJB009	MJB003	MJB004
Nichiryo®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Nichiryo®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Nichiryo®	1000 - 5000 µl	Blue	MJQ004	MJQ005	-	-	-
Oxford Slimline®	5 - 200 µl	Neutro	MJJ005	-	-	-	-
Oxford Slimline®	250 - 1000 µl	Blue	MJN006	-	-	-	-
Oxford® (orig.)	250 - 1000 µl	Green	MJN004	-	-	-	-
Oxford® (orig.)	1000 - 5000 µl	Neutral	MJQ005	MJQ006	-	-	-
Sherwood® / Lancer®	- 1000 µl	Neutral	MJN005	-	-	-	-
Socorex®	0,5 - 10 µl	Neutral	MJB002	MJB007	MJB009	MJB003	MJB004
Socorex®	2 - 200 µl	Yellow	MJJ004	MJJ011	MJJ013	MJJ009	MJG001
Socorex®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Socorex®	1000 - 5000 µl	Blue	MJQ004	MJQ005	-	-	-
Socorex®	1000 - 10000 µl	Neutral	MJQ002	MJQ005	-	-	-
Treff®	100 - 1000 µl	Blue	MJN003	MJN011	MJN013	-	MJN009
Treff®	1000 - 5500 µl	Neutral	MJQ001	MJQ007	-	-	-



▶ MJS - Empty boxes for tips

▶ PC box without tips

Kartell

- 1 | Empty, semi-transparent polycarbonate boxes.
- 2 | For standard tips up to 250 μ l.

Code	Type of cover
MJS003	Sliding cover (low shape)



▶ PP box for tips

Kartell

- 1 | Empty polypropylene boxes, with snap-on lid.

Code	Colour
MJS002	Grey
MJS004	Yellow



▶ MJV - Syringes for repeater pipettes

▶ Dispenser tip

DIGIPETTE

- 1 | Non-sterile, single-use Made of high quality plastic.

Code	Volume	Rango	Exactitud
MJV017	0.5 ml	10-50 μ L	± 0.9 %
MJV018	1.25 ml	25-125 μ L	± 0.9 %
MJV019	2.5 ml	50-250 μ L	± 0.8 %
MJV020	5 ml	100-500 μ L	± 0.6 %
MJV021	12.5 ml	250-1250 μ L	± 0.4 %



▶ Syringe Ecostep™ for pipettes Stepper™ 411

SOCOREX
SWISS

- 1 | Color-coding: The Ecostep syringe and selector button are color-coded to eliminate any setting errors.
- 2 | Available in sterile format

Code	Volume	Capacity	Sterile
MJV025	10 - 100 μ l	0.75 ml	No
MJV028			Yes
MJV026	50 - 500 μ l	37.5 ml	No
MJV027			Yes
MJV029	500 - 5000 μ l	37.5 ml	No
MJV030			Yes

Values obtained with double-distilled water at a constant temperature ($\pm 0.5^\circ\text{C}$) between 20 and 25°C according to ISO 8655.

Code	Description	Colour
MJV031	Adapter for Ecostep box of 5	Red





▶ MJX - Containers for reagents

▶ Reservoir PP V-shaped



- 1| Specially adapted for single and multichannel pipetting.
- 2| The V-shaped bottom allows the aspiration of even the last drops of reagent.
- 3| Made of polypropylene, autoclavable, reusable.

Code	Pack	Volume	Cover
MJX001	20 units	70 ml	No
MJX002	20 units	125 ml	With hinge

▶ 8 and 12 channels



- 1| 8 and 12 channel containers, 48 mL capacity
- 2| The ideal solution for numerous applications.
- 3| Made of polystyrene, available sterilized, individually wrapped

Code	Pack	Canales	Esterilizado
MJX003	30 units	8 channels	No
MJX004	30 units	8 channels	Yes
MJX005	30 units	12 channels	No
MJX006	30 units	12 channels	Yes

▶ MMB - Classic

▶ Tip glass syringe Luer



- 1| Made of first-class hydrolytic neutral borosilicate glass
- 2| Resistant up to 200 °C in air and water from 4 °C to 100 °C
- 3| Piston tip marked with amber ring

Code	Volume
Tip Luer Lock metal	
MMB002	1 mL
MMB003	2 mL
MMB004	3 mL
MMB005	5 mL
MMB006	10 mL
MMB007	20 mL
MMB008	30 mL
MMB009	50 mL
MMB010	100 mL
Tip Luer Metal	
MMB011	1 mL
MMB032	2 mL
MMB033	3 mL
MMB034	5 mL
MMB013	10 mL
MMB012	20 mL
MMB014	30 mL
MMB035	50 mL
MMB036	100 mL
Tip Luer Glass	
MMB043	1 mL
MMB044	2 mL
MMB045	3 mL
MMB046	5 mL
MMB047	10 mL
MMB048	20 mL
MMB049	30 mL
MMB050	50 mL
MMB051	100 mL



MMB - Classic

Syringe Dosys glass 155



- 1 | Precision finish of the piston and cylinder. Excellent fit and liquid tightness.
- 2 | Highly visible graduations permanently. Made of borosilicate glass.

Code	Volume	Division	Packaging
Tip Luer glass			
MMB015	0.1-1 mL	0.05 mL	3 / box
MMB016	0.2-5 mL	0.2 mL	3 / box
MMB017	1-10 mL	0.2 mL	3 / box
MMB018	10-100 mL	10 mL	1 / box
MMB019	1-20 mL	1 mL	2 / box
MMB020	1-30 mL	2 mL	2 / box
Tip Luer Lock metal			
MMB021	0.1-1 mL	0.05 mL	3 / box
MMB023	0.2-5 mL	0.2 mL	3 / box
MMB024	1-10 mL	0.2 mL	3 / box
MMB025	10-100 mL	10 mL	1 / box
MMB027	1-20 mL	1 mL	2 / box
MMB030	1-30 mL	2 mL	2 / box
MMB022	0.5-2 mL	0.1 mL	3 / box
MMB026	10-150 mL	10 mL	1 / box
MMB028	10-200 mL	10 mL	1 / box
MMB029	10-250 mL	10 mL	1 / box
MMB031	1-50 mL	2 mL	1 / box



AUTO
+121°

MMD - Self-refilling

Syringe Dosys basic 162/172



- 1 | Automatic filling through needle or cannula.
 - 2 | Supplied without a valve system. Luer Lock nozzle.
- The box includes the syringe, a protective PVC cover and instructions for use.

Code	Volume	Division
Dosys 162 (two-ring handle)		
MMD001	0.1-1 mL	0.05 mL
MMD002	0.3-2 mL	0.1 mL
MMD003	0.5-5 mL	0.5 mL
Dosys 172 (pistol grip handle)		
MMD014	0.1-1 mL	0.05 mL
MMD015	0.3-2 mL	0.1 mL
MMD016	0.5-5 mL	0.5 mL
MMD017	1-10 mL	1.0 mL



Syringe Dosys premium 164/174



- 1 | Automatic self-filling. Removable valve system.
 - 2 | Greater resistance to corrosion. Luer Lock nozzle.
- The box includes the syringe, a 1 metre silicone feeding tube, a plummet, a PVC protective sleeve, suction, ventilation and dosing cannulas, a set of spare parts for the valve and instructions for use.

Code	Volume	Division
Dosys 164 (two-ring handle)		
MMD010	0.1 - 1 mL	0.05 mL
MMD011	0.3 - 2 mL	0.1 mL
MMD012	0.5 - 5 mL	0.5 mL
MMD013	1 - 10 mL	1.0 mL
Dosys 174 (pistol grip handle)		
MMD025	0.1 - 1 mL	0.05 mL
MMD026	0.3 - 2 mL	0.1 mL
MMD027	0.5 - 5 mL	0.5 mL
MMD028	1 - 10 mL	1.0 mL





▶ MMD - Self-refilling

▶ Syringe Dosys classic 163/173



1 | Automatic self-filling. Integrated valve system. Luer Lock nozzle.
The box includes the syringe, a 1 metre silicone feeding tube, a plummet, a PVC protective cover, suction and ventilation cannulas, a set of spare parts for the valve and instructions for use.

Code	Volume	Division
Dosys 163 (two-ring handle)		
MMD006	0.025-0.3 mL	0.025 mL
MMD007	0.1-0.5 mL	0.1 mL
MMD004	0.1-1 mL	0.05 mL
MMD005	0.3-2 mL	0.1 mL
MMD008	0.5-5 mL	0.5 mL
MMD009	1-10 mL	1 mL
Dosys 173 (pistol grip handle)		
MMD021	0.025-0.3 mL	0.025 mL
MMD018	0.1-0.5 mL	0.1 mL
MMD019	0.1-1 mL	0.05 mL
MMD020	0.3-2 mL	0.1 mL
MMD022	0.5-5 mL	0.5 mL
MMD023	1-10 mL	1 mL
MMD024	5-20 mL	1 mL

▶ MMG - Needles

▶ Needle inox. Luer lock (for Dosys)



Code	(Ø x L) mm	Packaging
MMG001	0.7 x 13 mm	12 / box
MMG003	0.7 x 10 mm	12 / box
MMG004	0.7 x 4 mm	12 / box
MMG005	0.7 x 6 mm	12 / box
MMG006	0.8 x 4 mm	12 / box
MMG007	0.8 x 6 mm	12 / box
MMG008	0.8 x 10 mm	12 / box
MMG009	0.8 x 20 mm	12 / box
MMG010	0.8 x 40 mm	12 / box
MMG011	0.8 x 25 mm	12 / box
MMG012	0.9 x 10 mm	12 / box
MMG013	0.9 x 13 mm	12 / box
MMG014	1.0 x 25 mm	12 / box
MMG015	1.0 x 30 mm	12 / box
MMG016	1.0 x 10 mm	12 / box
MMG017	1.0 x 13 mm	12 / box
MMG018	1.0 x 15 mm	12 / box
MMG019	1.0 x 20 mm	12 / box
MMG020	1.2 x 10 mm	12 / box
MMG021	1.2 x 15 mm	12 / box
MMG022	1.2 x 20 mm	12 / box
MMG023	1.4 x 10 mm	12 / box
MMG024	1.4 x 20 mm	12 / box
MMG025	1.6 x 100 mm	12 / box
MMG026	1.6 x 20 mm	Unity
MMG027	1.6 x 30 mm	12 / box
MMG028	2.0 x 30 mm	12 / box
MMG029	2.0 x 40 mm	12 / box
MMG030	2.0 x 50 mm	12 / box
MMG031	1,2 x 50 mm	12 / box
MMG032	0.5 x 3 mm	12 / box
MMG033	0.6 x 4 mm	12 / box
MMG034	0.6 x 5 mm	12 / box
MMG035	0.6 x 6 mm	12 / box
MMG036	0.6 x 8 mm	12 / box
MMG037	1.6 x 20 mm	12 / box
MMG038	1.6 x 25 mm	12 / box
MMG040	1.8 x 20 mm	12 / box
MMG041	1.8 x 30 mm	12 / box
MMG042	2.0 x 30 mm	12 / box



▶ MMJ - Accessories

▶ CHART 6: 'Accessories for Dosys syringes'

Modelo
DOSYS



Code	Description	For syringe
MMJ001	Spare kit for valve	0.3 mL
MMJ002	Spare kit for valve	10 mL
MMJ011	Spare kit for valve	5 mL



Code	Description	For syringe
MMJ003	Enhanced plunger set	5 mL



Code	Description	For syringe	Pack
MMJ004	Grounded glass barrel	5 mL	C/6 uds.
MMJ005	Grounded glass barrel	10 mL	C/6 uds



Code	Description	For syringe
MMJ006	Work station for syringe	5 mL



Code	Description	Dimensions
MMJ010	Drencher for animals inox straight	3.0 x 203 mm



Code	Description
MMJ012	Réservoir PP, 60 mL
MMJ013	Réservoir PP, 125 mL
MMJ014	Réservoir PP, 250 mL



Code	Description
MMJ015	Lubricant ABF f/metal plunger spray 70 mL



Code	Description	Dimensions
MMJ007	Lab canula Luer Lock	1,2 x 50 mm
MMJ008	Lab canula Luer Lock	2,2 x 100 mm
MMJ009	Lab canula Luer Lock	2,2 x 150 mm



= Accessory **compatible** with the indicated equipment



▶ MPD - Peristaltic, accessories

▶ Spare kit pump



▶ Peristaltic pump COM-301

COMECTA

Code	N°
MPD501	86
MPD502	22
MPD503	816
MPD504	820
MPD505	840

COMECTA

Code
MPD506

▶ MPG - For liquid transfer

▶ Pumps

**Kartell**

- 1 | Polypropylene dosing pump, with lever operation, which allows for the distribution of 22-23 liters per minute.
- 2 | Distribution of approximately 300 mL per piston drive.
- 3 | Allows the transfer of very viscous liquids (equivalent to SAE 90 fats).
- 4 | Pouring piston adjustable 360°. It has a suction tube.

Code	Mod.	Cap. mL	Rotary connexion
MPG001	MR60	± 300	2"

**COMECTA**

Code	Description
MPG501	Rotary hand pump "RP-90P"
MPG502	Electric transfer pump "FA-100"
MPG506	Peristaltic pump Percom N-M II

▶ Accessories

**VITLAB**

Code	Description
MPG503	Additional air bleed cap
MPG504	High capacity drum fauce
MPG505	Drum plug key in brass



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[P]
SEPARATION AND
FILTRATION





PBB - Glass apparatus/Pieces

▶ Simple and fractional distillation equipment



The main purpose of distillation is to separate a liquid mixture whose components have different boiling points, or to separate volatile from non-volatile components.

This may be done in a single evaporation/condensation process, as in simple distillation, or by successive simple distillations taking place in a fractionating column, as in fractional distillation, with a progressive enrichment of the mixture in the most volatile component and used when the boiling points of the components differ by less than 25°C.



- 1 | Made of borosilicate glass with 29/32 frosted joints.
- 2 | Supplied in a case for storage and transport (except ref. PBB015 and PBB016).

Code	Description
PBB001	Simple distillation equipment, 250 ml
PBB002	Fractional distillation equipment, 250 ml

Composed of:

Code	Description
PBL015	Round bottom flask, 29/32, 250 mL
PBN010	Refrigerante Liebig 300 mm
PBP002	Liebig condenser ground joint 29/32 (Code PBB002)
PBQ028	75° glass adapter f/thermometers
PBQ031	Bent distillation adapter joint 100 mm
KJB011	Solid-stem thermometer -10/110° C
FCM010	Plastic clip for joint 29/32 (3 uni in PBB001 and 4 uni in PBB002)

*Stand assembly not included

▶ García Tena kit



The routine control of the volatile acidity (volatile fatty acids of the acetic series) during the process of elaboration of wines, ciders, etc allows to determine the state of fermentation of the musts and, since its content is limited by law, to establish the quality of the final product and to foresee the requirements for its conservation.

Among the various methods used in its calculation is the Garcia Tena method, an approximate method by which the concentration of acetic acid is determined, a secondary product mostly from alcoholic fermentation.



- 1 | Made of borosilicate glass with 14/23 frosted joints.
- 2 | Supplied in a case for storage and transport.

Code	Description
PBB003	García Tena kit

Composed of

Code	Description
CDB013	Erlenmeyer flask, 50 mL
DNB007	Burette with PTFE stopcock, 10 ml
PBN006	Liebig condenser socket 120 mm
DJJ005	Volumetric pipette, 11 mL
PBZ001	Volumetric cylinder 5.1 mL
PBZ002	Volumetric cylinder 3.2 mL
FFJ002	Alcohol lamp safety system 100 mL
PNB001	Short stem funnel, 40 mm
PBL004	Round bottom flask, 50 mL
PBQ034	Double bent piece ground joint, 14/23
FCG008	Clamp 2 prongs with rotary bosshead (2 uni)
FCB006	Retort stand, 100x175 mm
FCM007	Plastic clip for joint 14/23 (2 uni)
FCV006	Retort ring w/bosshead closed 80 mm
KJB011	Yellow solid-stem thermometer -10/110 °C

▶ PBB - Glass apparatus/Pieces

▶ Simple and fractional distillation equipment



Code	Description
PBB015	Simple distillation equipment, 250 mL
PBB016	Fractional distillation equipment, 250 mL

Composed of:

Code	Description
PBL015	Round bottom flask, 250 ml, 250 mL
PBQ118	Bend piece, 75°
PBQ113	Adapter for thermometer
KJB011	Thermometer -10° C to +110° C
PBN038	Liebig condenser, 250 mm
PBQ019	Bend distillation adapter, 65 mm
FCM023	4 Clips
PBP002*	Vigreux column ground joint 29/32

*only for equipment PBB016



▶ Ampliación equipo semi-micro



Code	Description
PBB005	Microscale standard kit extension, joints 14/23

Composed of:

Code	Description
LDR003	Stirring rod, 5/6x300 mm
PBN029	Cold finger condenser
PBM002	Pear shaped flask, 2 necks (14/23) 50 mL
PBL001	Round bottom flask ground joint 10 mL
BMC013	Stopper ground joint
PBQ026	Glass adapter for thermometers
PBP001	Vigreux column joint 300 mm
PBQ032	Claisen adapter, joint 14/23
PBQ033	Receiver adapter for 2 flasks
PBZ003	Willstatter filter 50 mm
PBV003	Drying tube



▶ Gas generator Kipp



The Kipp device, also called a Kipp generator, is used to generate small volumes of gas (CO₂, H₂S, H₂, O₂, etc.) at room temperature.

- 1| Made of borosilicate glass.
- 2| Three chambers interconnected by frosted joints.

Code	Description	Capacity
PBB007	Gas generator Kipp	500 mL
PBB008	Gas generator Kipp	1000 mL

* This item is supplied under request



▶ Apparatus for determination volatile oil in drugs



The essential oils contained in drugs and which usually contain active ingredients are generally volatile oils and can be extracted by a steam distillation process carried out with this glass apparatus.

Code	Capacity	Flask	Frosted
PBB009	1 mL	1000 mL	29/32





PBC - Soxhlet extractors

The Soxhlet extractor allows for solid-liquid extraction to obtain active ingredients or for the purification of substances based on their solubility in certain solvents. Thus, through a cyclic process of solvent evaporation/condensation, usually of an organic nature (ether, ethanol, benzene, etc.), the lipid components (essential oils, fats, etc.) of a given sample are dissolved and extracted.

1| Made of borosilicate glass.

2| Kit formed by spherical flask, extractor body and Dimroth refrigerant.

3| Extraction cartridges not included. (Check availability).

▶ 50 mL



Code	Description
PBC001	Soxhlet extraction system, 50 mL

Composed of:

Code	Description	Frosted
PBN026	Dimroth condenser	29/32
PBR001	Extractor body	19/26 y 29/32
PBK003	Flat bottom flask, 100 mL	19/26

Recommended thimbles

PBD006 Extraction thimbles 30x26x100 mm*

* Not included

▶ 125 mL



Code	Description
PBC002	Soxhlet extraction system, 125 mL

Composed of:

Code	Description	Frosted
PBN027	Dimroth condenser	45/40
PBR002	Extractor body	29/32 y 45/40
PBK008	Flat bottom flask, 250 mL	29/32

Recommended thimbles

PBD008 Extraction thimbles 36x33x80 mm*

* Not included

▶ 250 mL



Code	Description
PBC003	Soxhlet extraction system, 250 mL

Composed of:

Code	Description	Frosted
PBN028	Dimroth condenser	55/44
PBR004	Extractor body	29/32 y 55/44
PBK010	Flat bottom flask, 500 mL	29/32

Recommended thimbles

PBD010 Extraction thimbles 36x33x100 mm*

* Not included



▶ PBC - Soxhlet extractors

▶ 100 mL



Code	Description
PBC004	Extractor SOXHLET, complete ALLIHN

Composed of:

Description	Frosted
Allihn condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 250 mL	29/32

Code	Description
PBC009	Extractor SOXHLET 100ml complete DIMROTH

Composed of:

Description	Frosted
Dimroth condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 250 mL	29/32



▶ 150 mL



Code	Description
PBC005	Extractor SOXHLET, complete ALLIHN

Composed of:

Description	Frosted
Allihn condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 250 mL	29/32

Code	Description
PBC010	Extractor SOXHLET 100ml complete DIMROTH

Composed of:

Description	Frosted
Dimroth condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 250 mL	29/32



▶ 250 mL



Code	Description
PBC006	Extractor SOXHLET, complete ALLIHN

Composed of:

Description	Frosted
Dimroth condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 500 mL	29/32





PBC - Soxhlet extractors

▶ 250 mL



Code	Description
PBC011	Extractor SOXHLET 250ml complete DIMROTH

Composed of:

Description	Frosted
Dimroth condenser	45/40
Extractor body	45/40 y 29/32
Flat bottom flask, 500 mL	29/32

▶ 500 mL



Code	Description
PBC007	Extractor SOXHLET 500ml complete ALLIHN

Composed of:

Description	Frosted
Allihn condenser	60/46
Extractor body	60/46 y 29/32
Flat bottom flask, 1000 mL	29/32

Code	Description
PBC0012	Extractor SOXHLET 500ml complete DIMROTH

Composed of:

Description	Frosted
Dimroth condenser	60/46
Extractor body	60/46 y 29/32
Flat bottom flask, 1000 mL	29/32

▶ 1000 mL



Code	Description
PBC008	Extractor SOXHLET 1000ml complete ALLIHN

Composed of:

Description	Frosted
Allihn condenser	71/55
Extractor body	71/55 y 29/32
Flat bottom flask, 2000 mL	29/32

Code	Description
PBC013	Soxhlet Extraction apparatus 1000ml type Dimroth

Composed of:

Description	Frosted
Extractor body	71/55
Extractor body	71/55 y 29/32
Flat bottom flask, 2000 mL	29/32



PBD - Soxhlet extractors, thimbles



- 1 | Manufactured in pure cellulose cotton free of fat and high mechanical resistance.
- 2 | For solid-liquid extraction type Soxhlet, Kumagawa and other extraction equipment
- 3 | Application in food industry, air pollution analysis, cosmetics, pharmacology, etc..

Code	Ø internal	Ø external	Height	Box of (uni.)
PBD001	14 mm	16 mm	30 mm	25
PBD003	19 mm	22 mm	90 mm	25
PBD002	18 mm	22 mm	60 mm	25
PBD004	22 mm	26 mm	60 mm	25
PBD005	23 mm	27 mm	80 mm	25
PBD006	26 mm	30 mm	100 mm	25
PBD007	29 mm	34 mm	80 mm	25
PBD008	33 mm	36 mm	80 mm	25
PBD009	33 mm	36 mm	94 mm	25
PBD010	33 mm	36 mm	100 mm	25
PBD011	34 mm	37 mm	130 mm	25
PBD012	37 mm	41 mm	123 mm	25
PBD013	38 mm	41 mm	150 mm	25
PBD014	41 mm	47 mm	123 mm	25
PBD015	46 mm	52 mm	165 mm	25
PBD016	54 mm	58 mm	170 mm	25
PBD017	58 mm	62 mm	170 mm	25
PBD018	65 mm	70 mm	240 mm	25
PBD019	75 mm	80 mm	200 mm	25
PBD020	75 mm	80 mm	250 mm	25
PBD021	92 mm	95 mm	250 mm	25



PBF - Glass balls



- 1 | Made of soda-lime glass.

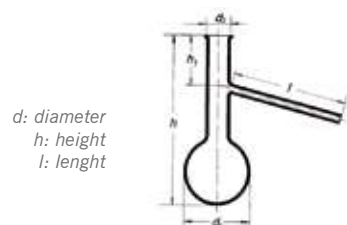
Code	Diameter	Bag of
PBF001	2 mm	1 kg
PBF002	3 mm	1 kg
PBF003	4 mm	1 kg
PBF004	5 mm	1 kg
PBF005	6 mm	1 kg
PBF006	7 mm	1 kg
PBF007	8 mm	1 kg



PBG - Flasks, distillation



Distilling flask



Glass piece specially designed to perform the simple distillation process by connecting a coolant to the side arm and a control thermometer in the mouth.

- 1 | Made of borosilicate glass.

Code	Cap.	d2	h.	l.
PBG001	100 mL	15 mm	174 mm	100 mm
PBG002	250 mL	19 mm	216 mm	120 mm
PBG003	500 mL	24 mm	275 mm	150 mm
PBG004	1000 mL	28 mm	320 mm	180 mm





PBG - Flasks, distillation



Code	Cap.	d2	h.	l.
PBG005	100 mL	22 mm	150 mm	200 mm
PBG006	250 mL	34 mm	200 mm	200 mm
PBG007	500 mL	34 mm	250 mm	200 mm

* This item is supplied under request



PBH - Flasks, Erlenmeyer

Erlenmeyer Flask

d: diameter
h: height

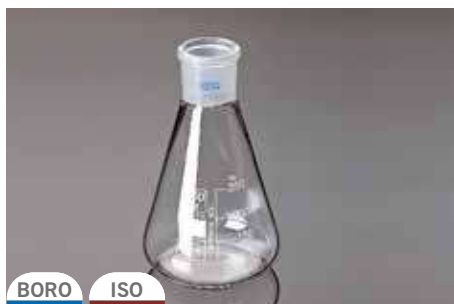
Erlenmeyer Flask



- 1 | Frosted mouth for connection and assembly.
- 2 | White graduation and marking surface.
- 3 | For other volumes or frosted, please consult..

BORO
3.3ISO
4797

Code	Cap.	Frosted	d.	h.
PBH020	50 mL	19/26	51 mm	85 mm
PBH021	100 mL	19/26	64 mm	105 mm
PBH022	100 mL	29/32	64 mm	105 mm
PBH023	250 mL	29/32	85 mm	140 mm
PBH024	250 mL	45/40	85 mm	140 mm
PBH025	500 mL	29/32	105 mm	175 mm
PBH026	500 mL	45/40	105 mm	175 mm
PBH027	1000 mL	29/32	131 mm	215 mm
PBH028	1000 mL	45/40	131 mm	215 mm
PBH029	2000 mL	45/40	166 mm	275 mm

BORO
3.3ISO
4797

Code	Cap.	Frosted	d.	h.
PBH001	25 mL	14/23	42 mm	75 mm
PBH002	25 mL	19/26	42 mm	75 mm
PBH003	50 mL	14/23	51 mm	85 mm
PBH004	50 mL	19/26	51 mm	85 mm
PBH005	50 mL	24/29	64 mm	85 mm
PBH006	50 mL	29/32	64 mm	85 mm
PBH007	100 mL	14/23	64 mm	105 mm
PBH008	100 mL	19/26	64 mm	105 mm
PBH009	100 mL	24/29	64 mm	105 mm
PBH010	100 mL	29/32	64 mm	105 mm
PBH011	150 mL	19/26	72 mm	118 mm
PBH012	150 mL	29/32	72 mm	118 mm
PBH013	250 mL	19/26	85 mm	140 mm
PBH014	250 mL	24/29	85 mm	140 mm
PBH015	250 mL	29/32	85 mm	140 mm
PBH016	500 mL	24/29	105 mm	175 mm
PBH017	500 mL	29/32	105 mm	175 mm
PBH018	1000 mL	29/32	131 mm	220 mm
PBH019	2000 mL	29/32	166 mm	280 mm
PBH032	150 mL	24/29	72 mm	118 mm
PBH033	200 mL	29/32	79 mm	131 mm
PBH034	300 mL	29/32	87 mm	156 mm
PBH035	500 mL	19/26	105 mm	175 mm
PBH036	1000 mL	29/32	87 mm	156 mm
PBH037	2000 mL	34/35	166 mm	270 mm



▶ PBH - Flasks, Erlenmeyer

▶ Erlenmeyer flask cone



- 1 | Suitable for filtration equipment.
- 2 | Not graduated

Code	Capacity	Frosted
PBH030	1000 mL	40/35



Code	Capacity	Frosted
PBH038	1000 mL	40/35
PBH039	2000 mL	40/35



▶ PBJ - Flasks, evaporation



- 1 | Evaporation flask suitable for rotary evaporators.
- 2 | Frosted mouth.

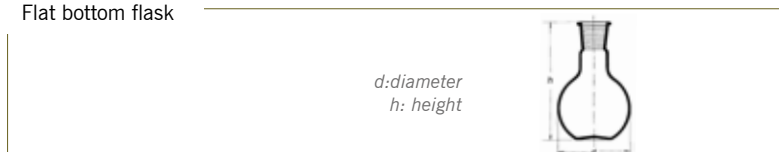
Code	Cap.	Frosted
PBJ001	50 mL	29/32
PBJ002	100 mL	29/32
PBJ007	100 mL	24/29
PBJ003	250 mL	29/32
PBJ008	250 mL	24/29
PBJ004	500 mL	29/32
PBJ009	500 mL	24/29
PBJ005	1000 mL	29/32
PBJ010	1000 mL	24/29
PBJ006	2000 mL	29/32



▶ PBK - Flasks, flat bottom



Flat bottom flask



- 1 | Flat bottom spherical flask with frosted mouth.
- 2 | Complies with USP regulations.

Code	Cap.	Frosted	Height	Diameter
PBK001	50 mL	14/23	85 mm	51 mm
PBK002	50 mL	29/32	85 mm	51 mm
PBK018	50 mL	19/26	85 mm	51 mm
PBK019	50 mL	24/29	85 mm	51 mm
PBK003	100 mL	19/26	103 mm	64 mm
PBK004	100 mL	24/29	103 mm	50 mm
PBK005	100 mL	29/32	103 mm	64 mm
PBK006	250 mL	19/26	130 mm	85 mm
PBK007	250 mL	24/29	130 mm	85 mm
PBK008	250 mL	29/32	130 mm	85 mm
PBK009	500 mL	24/29	160 mm	103 mm
PBK010	500 mL	29/32	160 mm	160 mm
PBK011	1000 mL	24/29	187 mm	131 mm
PBK012	1000 mL	29/32	187 mm	131 mm
PBK013	2000 mL	29/32	230 mm	166 mm





PBK - Flasks, flat bottom

BORO
3.3

- 1 | Flat bottom spherical flask with frosted mouth.
- 2 | Complies with USP regulations.
- 3 | For other volumes or frosted, please consult.

Code	Cap.	Frosted	Height	Diameter
PBK014	100 mL	29/32	110 mm	64 mm
PBK015	250 mL	29/32	140 mm	85 mm
PBK016	500 mL	29/32	170 mm	105 mm
PBK017	1000 mL	29/32	200 mm	131 mm

* This item is supplied under request



PBL - Flasks, round bottom

Round bottom flask

d: width
h: height

▶ 1 neck

BORO
3.3ISO
4797

- 1 | Round bottom spherical flask with frosted mouth.
- 2 | Complies with USP and ISO/DIN 4797 standards except for articles (*).
- 3 | For other volumes or frosted, please consult.

Code	Cap.	Frosted	h.	d.
PBL001	10 mL	14/23	35 mm	70 mm
PBL002	25 mL	14/23	85 mm	41 mm
PBL003*	25 mL	19/26	85 mm	41 mm
PBL004	50 mL	14/23	90 mm	51 mm
PBL005	50 mL	19/26	90 mm	51 mm
PBL006	50 mL	24/29	115 mm	51 mm
PBL007	50 mL	29/32	115 mm	51 mm
PBL008	100 mL	14/23	105 mm	64 mm
PBL009	100 mL	19/26	105 mm	64 mm
PBL010	100 mL	24/29	105 mm	64 mm
PBL011	100 mL	29/32	105 mm	64 mm
PBL036	150 mL	24/29	137 mm	75 mm
PBL037	150 mL	29/32	137 mm	75 mm
PBL012	250 mL	14/23	140 mm	85 mm
PBL013	250 mL	19/26	140 mm	85 mm
PBL014	250 mL	24/29	140 mm	85 mm
PBL015	250 mL	29/32	140 mm	85 mm
PBL038	250 mL	34/35	140 mm	85 mm
PBL016*	500 mL	19/26	163 mm	105 mm
PBL017	500 mL	24/29	163 mm	105 mm
PBL018	500 mL	29/32	163 mm	105 mm
PBL019	1000 mL	24/29	200 mm	131 mm
PBL020	1000 mL	29/32	200 mm	131 mm
PBL041	5000 mL	45/40	305 mm	223 mm
PBL021	2000 mL	24/29	240 mm	166 mm
PBL022	2000 mL	29/32	240 mm	166 mm
PBL032*	2000 mL	34/35	240 mm	165 mm
PBL043	3000 mL	29/32	260 mm	185 mm
PBL040	1000 mL	19/26	200 mm	131 mm
PBL042	10000 mL	45/40	380 mm	279 mm



PBL - Flasks, round bottom

▶ 1 necks



1| Round bottom spherical flask with frosted mouth. For other volumes or frosted, please consult.

Code	Cap.	Frosted	d.	h.
PBL023	100 mL	29/32	115 mm	64 mm
PBL024	250 mL	29/32	145 mm	85 mm
PBL025	500 mL	29/32	175 mm	105 mm
PBL026	1000 mL	29/32	210 mm	131 mm
PBL027	2000 mL	29/32	260 mm	166 mm



BORO 3.3 ISO 4797

▶ 2 - 3 necks



1| Round bottom spherical flask with frosted mouth. USP compliant. For other volumes or frosted, please consult.

Code	Cap.	Neck	Frosted 1	Frosted 2	Frosted 3	Height
PBL028	250 mL	2	24/29	19/26	-	140 mm
PBL046	250 mL	2	29/32	14/23	-	140 mm
PBL048	250 mL	3	19/26	19/26	19/26	140 mm
PBL049	250 mL	3	24/29	14/23	14/23	140 mm
PBL029	500 mL	2	24/29	19/26	-	163 mm
PBL047	500 mL	2	29/32	14/23	-	163 mm
PBL031	500 mL	3	29/32	29/32	29/32	163 mm
PBL050	500 mL	3	24/29	16/26	16/26	163 mm
PBL030	1000 mL	3	29/32	29/32	29/32	200 mm
PBL051	2000 mL	3	29/32	24/29	24/29	240 mm



BORO 3.3 DIN 12394

PBM - Flasks, pear-shape

▶ Heart shaped flask



Code	Capacity	Frosted	Neck
PBM001	25 mL	14/23	1
PBM002	50 mL	14/23	2
PBM003	100 mL	14/23	3
PBM004	250 mL	29/32	1



▶ Pear shaped flask



Code	Capacity	Frosted	Neck
PBM007	25 mL	14/23	1
PBM005	50 mL	14/23	1
PBM006	100 mL	14/23	1
PBM008	100 mL	14/23	2





PBN - Condensers

▶ Allihn condenser

BORO
3.3

- 1 | 5-ball coolant with double frosted mouth.
- 2 | For applications requiring reflux.

Code	Usefull lenght	Total lenght	Frosted
PBN001	160 mm	280 mm	14/23
PBN002	250 mm	386 mm	29/32
PBN030	190 mm	350 mm	-

▶ Allihn



Code	Lenght	Frosted
PBN041	160 mm	19/26
PBN042	250 mm	24/29

▶ Allihn for Soxhlet



Code	Lenght	Frosted	For extractor of
PBN032	300 mm	45/40	100 mL
PBN039	400 mm	60/46	500 mL

▶ Liebig West

BORO
3.3

- 1 | Double frosted liner coolant except (*).
- 2 | For distillations that require little cooling.

Code	Usefull lenght	Total lenght	Frosted
PBN005	100 mm	220 mm	14/23
PBN006*	120 mm	250 mm	14/23 (Female)
PBN007	150 mm	270 mm	14/23
PBN008	200 mm	350 mm	19/26
PBN009	200 mm	310 mm	14/23
PBN036	200 mm	370 mm	24/29
PBN010	300 mm	460 mm	29/32
PBN011	300 mm	450 mm	19/26
PBN012	400 mm	560 mm	29/32
PBN013	400 mm	570 mm	19/26



▶ PBN - Condensers

▶ Liebig



Code	Lenght	Male	Female
PBN035	160 mm	14/23	14/23
PBN038	250 mm	24/29	24/29
PBN045	400 mm	24/29	24/29



▶ Liebig condenser



Code	Usefull lenght	Total lenght
PBN014	200 mm	350 mm
PBN015	200 mm	400 mm



BORO
3.3

▶ Coil condenser



- 1| It has an inner coil where the steam circulates and condenses.
- 2| The coolant circulates outside the coil.
- 3| For distillations that require prolonged cooling.

Code	Usefull lenght	Total lenght	Female	Male
PBN016	120 mm	195 mm	-	-
PBN017	120 mm	205 mm	14/23	-
PBN018	120 mm	215 mm	14/23	14/23
PBN019	160 mm	270 mm	14/23	-
PBN020	200 mm	300 mm	-	45/40
PBN021	250 mm	400 mm	19/26	-
PBN022	350 mm	460 mm	-	-
PBN023	350 mm	470 mm	29/32	-



Code	Usefull lenght	Female	Male
PBN037	400 mm	29/32	29/32



▶ Dimroth condenser



- 1| They have an inner coil where the coolant circulates.
- 2| Vapour circulates outside the coil.
- 3| For distillations that require prolonged cooling.

Code	Usefull lenght	Total lenght	Female	Male
PBN025	160 mm	300 mm	14/23	14/23
PBN024	250 mm	400 mm	29/32	29/32



BORO
3.3

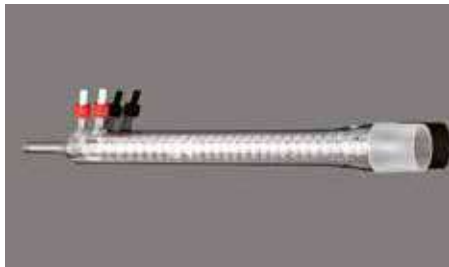


PBN - Condensers

▶ Dimroth for Soxhlet



Code	Usefull lenght	Total lenght	Frosted
PBN026	160 mm	270 mm	29/32
PBN027	180 mm	310 mm	45/40
PBN028	200 mm	360 mm	55/44



Code	Usefull lenght	For extractor	Frosted
PBN033	300 mm	100 mL	45/40
PBN034	400 mm	1000 mL	71/55
PBN040	400 mm	500 mL	60/46

▶ Cold finger condenser



1 | It allows to have a localized cold spot.

Code	Frosted male	Olive
PBN029	14/23	13 mm

▶ Condenser air socket



1 | Used for the condensation of substances with boiling temperatures above 150°C

Code	Frosted H/M	Usefull lenght
PBN043	19/26	200 mm
PBN044	24/29	250 mm

BORO
3.3

PBP - Distillation columns

▶ Vigreux column



1 | Suitable for fractional distillation equipment.

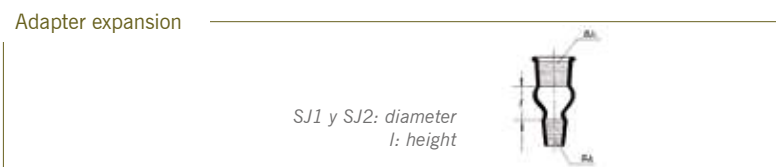
Code	Lenght	Frosted
PBP001	300 mm	14/23
PBP002	320 mm	29/32

BORO
3.3



PBQ - Connectors/Adapters

▶ Adapter expansion



DIN 12257 BORO 3.3

1 | They comply with DIN 12257 except (*). For other measurements, please consult.

Code	Frosted male	Frosted female
PBQ001	14/23	29/32
PBQ002	19/26	29/32
PBQ003*	24/29	29/32

▶ Inverted reductor

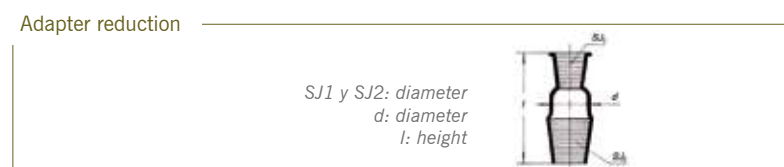


1 | For other measures, please consult.

Code	SJ1	SJ2	L
PBQ004	29/32	14/23	35 mm
PBQ005	29/32	19/26	35 mm
PBQ006	29/32	24/29	35 mm



▶ Adapter reduction



BORO 3.3 DIN 12257

1 | They comply with DIN 12257 except (*). For other measurements, please consult.

Code	Frosted male	Frosted female
PBQ007*	24/29	14/23
PBQ008	29/32	14/23
PBQ009	29/32	19/26
PBQ010*	29/32	24/29
PBQ083	29/32	24/29
PBQ087	24/29	14/23
PBQ089	24/29	19/26
PBQ092	2x 14/23	14/23
PBQ120	19/26	45/40



PBQ - Connectors/Adapters

▶ Adapter reduction



1 | Please consult, for other measures.



Code	SJ1	SJ2	l	d
PBQ011	60/46	29/32	53 mm	110 mm

▶ Male ground joint



1 | Please consult, for other measures.

BORO
3.3ISO
383DIN
12249

Code	Frosted	Ø ext x L
PBQ012	12/21	9x120 mm
PBQ013	14/23	13x120 mm
PBQ014	19/26	16x120 mm
PBQ072	24/29	22x135 mm
PBQ073	29/32	26x135 mm
PBQ125	10/19	8x115 mm
PBQ126	34/35	30x135 mm
PBQ127	40/38	36x90 mm
PBQ128	50/42	45x140 mm
PBQ129	55/44	50x140 mm



1 | Please consult, for other measures.

Code	SJ	d x l
PBQ015	40/38	36x150 mm
PBQ016	45/40	40x150 mm
PBQ057	29/32	26x140 mm

▶ CONE with tip single



Code	Frosted	Ø ext x L
PBQ130	12/21	9x120 mm
PBQ131	14/23	11x120 mm
PBQ132	19/26	16x120 mm
PBQ133	24/29	22x135 mm
PBQ134	29/32	26x135 mm
PBQ135	34/35	30x135 mm
PBQ136	40/38	36x140 mm
PBQ137	45/40	40x140 mm
PBQ138	50/52	45x140 mm
PBQ139	55/44	50x140 mm



▶ PBQ - Connectors/Adapters

▶ Female ground joint



1 | Please consult, for other measures.

Code	Frosted	d x l
PBQ017	19/26	22x125 mm
PBQ018	29/32	32x135 mm
PBQ060	14/23	18x120 mm
PBQ062	24/29	32x135 mm
PBQ064	34/35	32x135 mm
PBQ065	45/40	32x135 mm
PBQ121	10/19	13x115 mm
PBQ122	12/21	16x100 mm
PBQ123	55/44	60x140 mm
PBQ124	40/38	55x140 mm



1 | Please consult, for other measures.



Code	SJ	d x l
PBQ019	29/32	34x150 mm
PBQ020	40/38	46x150 mm

* This item is supplied under request



▶ Double bent piece



Code	Diameter	Length	Frosted
PBQ021	7 mm	160 mm	-
PBQ022	12 mm	250 mm	-
PBQ034	7 mm	160 mm	14/23 (mm)
PBQ035	25 mm	280 mm	29/32 (mm)



▶ Adapter for thermometer



- 1 | With frosted socket for control thermometer.
- 2 | Used in distillation to connect the flask to the refrigerator.

Code	Toma termómetro	Cono matraz	Cono refrigerante
PBQ023	14/23	14/23	14/23
PBQ024	14/23	19/26	19/26
PBQ025	14/23	24/29	24/29
PBQ118	29/32	29/32	29/32
PBQ153	14/23	24/29	19/26
PBQ154	14/23	29/32	29/32





PBQ - Connectors/Adapters

▶ Glass adapter for thermometers



1 | With threaded plug for coupling control thermometer.

Code	Screw	Frosted	Angle
PBQ026	13	14/23 (M)	-
PBQ027	8	14/23 (M/M)	75°
PBQ028	18	29/32 (M/M)	75°



1 | With threaded plug for coupling control thermometer.

Code	Screw	Frosted
PBQ111	6	19/26
PBQ112	6	24/29
PBQ113	6	29/32

▶ Connecting adapter with hose



Code	Frosted	Ø olive
PBQ029	14/23 (M/H)	10 mm

▶ Bent distillation adapter joint



1 | 105° angle.

Code	Length	Frosted
PBQ031	100 mm	29/32



▶ PBQ - Connectors/Adapters

▶ Bends plain length



Code	Frosted	Length
PBQ067	24/29	65 mm
PBQ119	29/32	65 mm
PBQ160	14/23	65 mm
PBQ161	19/26	65 mm



▶ Bent distillation adapter joint



Code	Frosted	Length
PBQ030	14/23	130 mm
PBQ068	29/32	200 mm
PBQ095	19/26	200 mm
PBQ142	24/29	200 mm



▶ Claisen adapter



Code	Screw	Frosted
PBQ032	13	14/23 (H/M/M)



Code	Frosted
PBQ041	29/32



▶ Receiver adapter for 2 flasks



Code	Frosted	Ø olive
PBQ033	14/23 (M/H)	10 mm





PBQ - Connectors/Adapters

▶ Supple connector PTFE

**Kartell**

1 | Made of PTFE to join glass tubes at an angle.

Code	Usefull lenght	Total lenght	Frosted
PBQ036	20.65 mm	24.11 mm	112.83 mm
PBQ037	25.70 mm	29.63 mm	130.34 mm
PBQ038	31.36 mm	34.40 mm	117.44 mm

* This item is supplied under request

▶ Receiver adapter straight



Code	Frosted
PBQ039	29/32
PBQ040	29/32 (H/M)

▶ Thermometer pocket cone



Code	Frosted	Lenght
PBQ162	14/23 (Male)	45 mm

▶ Bends with vent. sock



Code	Female	Male
PBQ100	19/26	19/26
PBQ101	19/26	24/29

▶ Bends with vacuum connection sock



Code	Female	Male
PBQ104	19/26	24/29



▶ PBQ - Connectors/Adapters

▶ Bends plain socket



Code	Female	Male
PBQ105	19/26	19/26
PBQ106	19/26	24/29
PBQ110	29/32	29/32
PBQ151	14/23	14/23



▶ Adapter "T" piece sock



Code	Female	Male
PBQ108	14/23	14/23
PBQ109	14/23	19/26



▶ Chemistry Set 9 Items



Code	Description
PBQ116	Chemistry Set 9 Items

Composed of

- 50 mL pear-shaped flask, size 14/23
- Angled connector, esm.14/23
- Liebig condenser, 150 mm, esm.14/23
- Adapter for thermometer with thread, esm.14/23
- Angled terminal, esm.14/23
- Steam inlet tube, esm.14/23
- Decanting funnel, esm.14/23
- Glass stopper, esm.14/23
- Thermometer, 0-360° C



Code	Description
PBQ117	Chemistry Set 16 Items

Composed of

- Angled connector, Frosted female: 14/23; male: 19/26
- Angled terminal, Frosted: 19/26; male: 24/29
- Air/steam output, Frosted case: 19/26
- Liebig condenser, Frosted female: 19/26; male: 19/26
- Decanting funnel, 100 mL, Frosted female and male: 19/26
- Reducing connector, Frosted female: 19/26; male: 24/29
- Multiple adapter, Frosted female: 19/26; male: 24/29
- Flask round bottom, 50 mL, Frosted female: 24/29
- Flask round bottom, 100 mL, Frosted female: 24/29
- Flask round bottom, 250 mL, Frosted female: 24/29
- Flask Erlenmeyer, 250 mL, Frosted female: 24/29
- Glass stopper, Frosted male: 19/26
- Glass stopper, Frosted male: 19/26
- Thermometer adapter, Frosted case: 14/23
- Angled terminal, Frosted female: 19/26
- Glass stopper, Frosted male: 24/29





PBQ - Connectors/Adapters

▶ Cup joint (male)



Code	Bore	Length
PBQ140	15 mm	100 mm

▶ Spherical joint cup



Code	Bore	Length
PBQ141	19 mm	100 mm

▶ Receiver adapter with vacuum connection



Code	Female	Male
PBQ143	14/23	14/23
PBQ144	14/23	19/26
PBQ145	19/26	19/26
PBQ146	19/26	24/29
PBQ147	24/29	24/29
PBQ148	24/29	29/32
PBQ149	29/32	29/32

▶ Receiver adapters



Code	Female	Male
PBQ150	2x 19/26	2x 19/26

▶ Recovery bend sloping



Code	Frosted 1	Frosted 2
PBQ152	29/32	29/32



▶ PBQ - Connectors/Adapters

▶ Splash head, vertical, Cone



Code	Esm 1	Esm 2
PBQ155	29/32	29/32

▶ Adapter cone to rubber tubing 45°



Code	Frosted
PBQ156	14/23
PBQ157	19/26

▶ PBR - Extractor bodies

▶ Extractor body



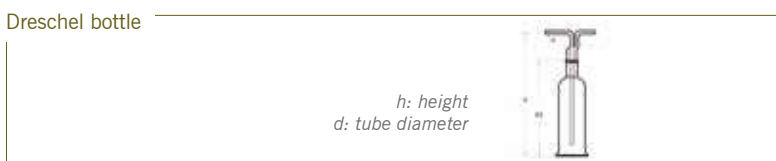
Code	Capacity	Frosted male	Frosted female
PBR001	50 mL	19/26	29/32
PBR002	125 mL	29/32	45/40
PBR004	250 mL	29/32	55/44



Code	Capacity	Frosted male	Frosted female
PBR005	100 mL	29/32	45/40
PBR006	250 mL	29/32	45/40
PBR007	500 mL	29/32	60/46
PBR008	1000 mL	29/32	71/55

▶ PBS - Gas washing bottles

▶ Dreschel bottle



Code	Cap.	d.	h.	h1
PBS001	100 mL	40 mm	200 mm	250 mm
PBS002	250 mL	54 mm	200 mm	250 mm
PBS003	500 mL	77 mm	200 mm	250 mm
PBS004	1000 mL	110 mm	200 mm	250 mm





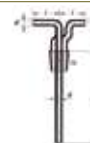
PBS - Gas washing bottles

▶ Adapter for gas washing bottle



Adapter for gas washing bottle

h: height
d: tube diameter



Code	d.	h1	h2	l	Frosted
PBS005	8 mm	180 mm	50 mm	40 mm	29/32

▶ Gas-wash bottle, PFA



Code	Volume	Ø mm	Height	Outer
PBS501	250 mL	61	160 mm	4/6 mm
PBS502	500 mL	76	190 mm	4/6 mm
PBS503	1000 mL	96	240 mm	4/6 mm



PBT - Woolff bottles

▶ Woulff bottle with neck and outlet



Adaptador con olive

SJ1: diameter1.
SJ2: diameter2.



Code	Cap.	SJ1	SJ2
PBT001	2000 mL	29/32	19/26
PBT002	5000 mL	45/40	24/29
PBT003*	5000 mL	45/40	24/29

** Without a key and plug.



PBV - Tubes

▶ Buchi digestion tube



- 1 | Thick walls and rounded bottom.
- 2 | Diameter 42 mm..

Code	Lenght	With constriction	Digestor
PBV001	300 mm	Yes	Buchi
PBV002	300 mm	No	Tecator et autres



▶ PBV - Tubes

▶ Storage tube with hose connection



Code	Capacity	Frosted	Ø olive
PBV004	20 mL	14/23	10 mm



▶ Drying tube



Code	Frosted
PBV003	14/23



▶ Air inlet tube



Code	Lenght	Frosted
PBV019	150 mm	14/23
PBV021	150 mm	24/29



▶ Collector tube 4 units macro



Code	For	Positions
PBV501	Bank Macro-Kjeldahl,	4 positions
PBV502	Bank Macro-Kjeldahl,	6 positions



▶ PBZ - Others

▶ Volumetric cylinder



1 | For the Garcia Tena method of volatile acidity..

Code	Capacity	Diameter	Height
PBZ001	5,1 mL	12 mm	110 mm
PBZ002	3,2 mL	12 mm	110 mm





PBZ - Others

▶ Willstatter filter



1 | For the Garcia Tena method of volatile acidity.

Code	Frosted	Diameter
PBZ003	14/23	45 mm

▶ Lining for glass tapers



1 | Designed to protect frosted glass cones. Made of PTFE.

Code	Frosted	Ø inferior	Lot
PBZ006	7,5/16	6 mm	10
PBZ007	10/19	8 mm	10
PBZ008	12/21	10 mm	10
PBZ009	14/23	12 mm	10
PBZ010	19/26	16 mm	10
PBZ011	24/29	21 mm	10
PBZ012	29/32	26 mm	10
PBZ013	34/35	31 mm	10
PBZ014	45/40	42 mm	10

* This item is supplied under request



PDB - Demineralizers

▶ Demineralizer of water LAB-ION L2



- 1 | Wall deionizer to obtain purified water. Residue of calcination less than 1mg/litre.
- 2 | Inactinic, bio-destructible and economical replacement cartridge.
- 3 | Supplied complete with wall support.

Code	PDB001
Ultra-pure water	0,1-20 μ S/cm
Distillation capacity (máx.)	40 L/h (a 4 bar)
Capacity (máx.)	810 L (a 5°dH)
Resin	Disposable mixed bed
Dimensions	115 x 515 mm
Power	110-220V, 50/60 Hz

Compatible accessories Lab-Ion L2 - NOT included with the equipment



Cartridge for demineralizer
Code PDD001

Code	Description
PDD001	Cartridge for demineralizer

▶ PDB - Demineralizers

▶ Water purification system Micromatic



- 1| Purifies tap water to Type II Analytical Grade water for general laboratory use.
- 2| Digital interface and microprocessor control with:
 - Continuous monitoring of the water produced.
 - Control of the state of the equipment (in production, full tank, fuse...).
- 3| Quick and easy maintenance without the need for periodic cleaning with acids.
- 4| Ecological: important savings of natural resources such as electricity and water.
- 5| The equipment is delivered factory calibrated (SGC ISO9001).
- 6| Minimum/maximum water inlet pressure: 3/6 bar.



Code	PDB003	PDB002
Distillation capacity	2,5 l/h	
Conductivity	< 1 $\mu\text{S}/\text{cm}$	
Yeslica Removal	>99,9 %	
Reverse osmosis performance	95 - 99%	
Storage tank	No	Yes (25 L)
Dimensions	45x25x40 cm	
Power	100-240V, 50/60Hz	
Operating weight	9 Kg	

Compatible accessories Micromatic - NOT included with the equipment



Pretreatment cartridges
Code PDD002



Resin cartridges
Code PDD003



Osmosis cartridge
Code PDD004

Pretreatment cartridges
Code PDD005

Code	Description
PDD002	Pretreatment cartridges, pack of 4 units to trait 900 L of water
PDD003	Resin cartridges, pack of 2 units to trait 1500 L of water
PDD004	Osmosis cartridge 3 L/h
PDD005	Pretreatment cartridges, pack of 4 units to trait 900 L of water

▶ Demineralizer "WP-3000"



- 1| Ideal for supplying several pieces of equipment at once and especially as an accessory for SMEG washing machines (see pages 368-369).
- 2| Conductivity meter with a scale of 3 indicator diodes with green, yellow and red light indicating the conductivity range.
- 3| Test function for pre-checking the state of the resins.

Code	PDB501
Conductivity range	0,8 a 20 $\mu\text{S}/\text{cm}$
Resistivity	1,4 - 1 MW/cm-1.
Water pressure	Min 0,3 bar - Max 10 bar.
Instant demineralization	Maximum of 10 l/min
Demineralization capacity	10° 4200, 15° 2800, 20° 2100, 25° 1680, 30° 1400, 35° 1200, 40° 1050
Height/Width/Background cm	85/30/60 cm
Weight Kg	35 Kg





PDG - Distillers

▶ Glass water still 4 l/h, Basic PH4



- 1 | Continuously obtaining distilled water. It has a safety thermostat.
- 2 | Robust heating block with chrome resistance. Set of borosilicate glass.

Code	PDG001
Distillation capacity	4 l/h
Conductivity (feeding tap water)	3.0-4.0 $\mu\text{S}/\text{cm}$
Conductivity (feeding treated water)	1.5-2.0 $\mu\text{S}/\text{cm}$
pH	5.5-6.0
Resistance	1 x 3000 W
Dimensions	50x15x45 cm
Power	220V, 50Hz
Weight	6 kg

▶ Glass water still 4 l/h, QUARTZ



- 1 | Continuously obtaining distilled water. Quartz resistance.
- 2 | Safety system with water inlet flow sensor (pressure switch).
- 3 | Made entirely of high quality borosilicate glass.
- 4 | With adapted support for its coupling to the wall.

Code	PDG002
Distillation capacity	4 L/h
Conductivity at 20 °C	2 $\mu\text{S}/\text{cm}$
Water consumption	1 L/min
Resistance	1 x 2500
Dimensions	55x15x50 cm
Power	230V, 50/60Hz, 11A
Weight	4 kg

▶ Glass water distiller in box, Serie 4000



- 1 | Detachable translucent acrylic safety front screen.
- 2 | Safety system with water inlet flow sensor (pressure switch).
- 3 | Heating resistances protected by a quartz sleeve. Borosilicate glass set

Code	PDG003
Distillation capacity	4 L/h
Conductivity at 20 °C	2 $\mu\text{S}/\text{cm}$
Water consumption	1,4 L/min
Resistance	2 x 2500 W
Dimensions	55x22x40 cm
Power	230V, 50/60Hz, 13 A
Weight	12 kg

▶ Distillation still "L-3"



- 1 | Made entirely of borosilicate glass.
- 2 | Functions: automatic with continuous water production.
- 3 | Produces distilled water of a high purity, free of pyrogens and metal ions.

Code	PDG501
Distillation capacity	4 L/h
Conductivity at 20 °C	3 $\mu\text{S}/\text{cm}$
Water consumption	1 L/min
Dimensions	34,5x56x19 cm
Power	2200 W
Weight	4,5 kg



▶ PDG - Distillers

▶ Water distiller "D-4 Large"



- 1| Equipment entirely made of borosilicate glass.
- 2| Automatic operation.
- 3| Continuous production of high purity distilled water, free of dissolved gases, metals, salts and pyrogens.
- 4| Spiral heating system.

Code	PDG502
Distillation capacity	4 L/h
Conductivity at 20 °C	2 μ s/cm
Water consumption	1 L/min
Dimensions	69x28x30 cm
Power	3000 W
Weight	6,3 kg



▶ Water distillers "L-4 Cabinet"



- 1| Equipment entirely made of borosilicate glass, with protective case with transparent plastic door that allows an easy access to the glass and heating elements.
- 2| The water distiller incorporates a boiler, a large surface cooling and two heating elements with protective quartz.
- 3| Desktop model with device to hang it on the wall.

Code	PDG503
Distillation capacity	4 l/h
Water consumption	1 l/min
Conductivity at 20 °C	1.5 μ s/cm
Dimensions	40x69x26 cm
Power	1x3000 W
Weight	12 kg



▶ Water distiller "Aquasel"



- 1| Easy to use, suitable for continuous distilled water requirements. Boiler unit and heater element made of AISI 304 stainless steel, with lid and condenser made of borosilicate glass. The glassware pressure seal connection is an original Selecta design.

Code	PDG504	PDG506
Distillation capacity	3 l/h	6 l/h
Water consumption	1 l/min	2 l/min
Conductivity at 20 °C	3 μ s/cm	3 μ s/cm
Dimensions	18x43 cm	23x68 cm
Power	2400 W	4800 W
Weight	5 kg	8 kg



▶ Water distillers "R-4 Reser"



- 1| External case epoxy covered.
- 2| Cooling and heating elements made of stainless steel.
- 3| Easy to dismantle for cleaning.
- 4| Thermostat that disconnects the heater when there's lack of water supply.

Code	PDG505
Distillation capacity	4 l/h
Water storage tank	8 L
Water consumption	1 l/min
Conductivity at 20 °C	1.5 μ s/cm
Dimensions	50x63x32 cm
Power	1x3000 W
Weight	24 kg



▶ PDG - Distillers

▶ Water distillers, "AC-L4" and "AC-L8"



- 1 | Tank and heating element made from stainless steel.
- 2 | External case made from epoxy covered steel.
- 3 | Easily dismantled for cleaning and service. All seals made from silicon.
- 4 | In the case of over temperature or low water supply, a safety thermostat cuts power to the heater.

Code	PDG507	PDG508
Distillation capacity	3 l/h	8 l/h
Water consumption	1 l/min	1,4 l/min
Conductivity at 20 °C	2 µs/cm	2 µs/cm
Dimensions	44x25x232 cm	61x26x26 cm
Power	3000 W	6000 W
Weight	8 kg	14 kg

▶ PDJ - Distillers, accessories

▶ Accesories

Code	Description	For model
PDJ001	Heating block with resistance	Basic pH 4
PDJ002	Joints and connectors kit	Basic pH 4
PDJ003	Hose kit for water	Basic pH 4
PDJ004	Glass boiler for water	Basic pH 4
PDJ005	Glass condenser for water	Basic pH 4
PDJ006	Metal support	Basic pH 4
PDJ007	2 fixing for boile	Basic pH 4
PDJ015	Stop valve	Basic pH 4
PDJ022	Water softening cartridge	Basic pH 4
PDJ008	Boiler for distiller	Quartz
PDJ009	Refrigerante	Quartz
PDJ010	Level for distiller	Quartz
PDJ011	Quartz resistance	Quartz
PDJ012	Flow limiter	Quartz y Serie 4000
PDJ016	Boiler	Serie 4000
PDJ017	Cooling	Serie 4000
PDJ018	Level	Serie 4000
PDJ019	Quartz resistance	Serie 4000
PDJ020	Flow limiter	Serie 4000
PDJ021	Level sensor	Serie 4000

▶ 50L Distiller water reservoir



- 1 | Especially recommended for the storage of distilled water.
- 2 | High density polyethylene tank. 50 litres capacity, with handles and dispenser tap.
- 3 | Screw cap of 15 cm Ø with shutter.

Code: PDJ506 - Accesory - Water reservoir trolley

Code	Dimensions
PDJ501	62 cm alto x 38 cm Ø.

▶ PGB - Evaporators

▶ Models 503



- 1 | Stainless steel heating bath with analogue temperature control.
- 2 | Analogical regulation of the rotation speed.
- 3 | Set of ground borosilicate glass 29/32 (included).
- 4 | 500 mL evaporation flask.

Code	PGB002
Model	503
Bath capacity	3 L
Maximum rotation speed	90 rpm
Maximum bath temperature	100 °C
Angle of inclination	45°
Head adjustment	150 mm, manual
Power	220V, 50/60Hz



Compatible accessories model 503 - NOT included with the equipment



Cabezal distribución
Code PGG002



Pipeta de entrada
Code PGG004



Pieza paso vapor
Code PGG006



Flask 500 mL
Code PGG007



Condenser
Code PGG008

Code	Description
PGG002	Distribution head 29/32
PGG004	Inlet pipette, 24/29
PGG006	Vapour ducting piece, 29/32
PGG007	Flask 500 mL, 29/32
PGG008	Condenser 29/32

▶ Model RS 100-S



- 1 | PID control ensures high temperature accuracy ($\pm 1^\circ\text{C}$ with water).
- 2 | Protection against overheating at 220°C .
- 3 | Automatic shutdown if heating occurs without water/oil.
- 4 | Drying process can be performed by setting a time interval, either clockwise or counter-clockwise.
- 5 | Adjustable immersion angle.
- 6 | Remote function offering the possibility of PC control and data transmission.

Code	PGB009
Model	RS100-S
Speed range	20-200 rpm
Display	LED (speed, temperature, time)
Warm-up temperature range	Room temperature - 180°C
Accuracy of temperature control	Water: $\pm 1^\circ\text{C}$ Oil: $\pm 3^\circ\text{C}$
Lift movement	Manual 110 mm + auxiliar 100 mm
Protection class	IP20
USB Interface	Yes
Dimensions (L x A x H)	440x320x450 mm mm
Weight	7 kg





PGB - Evaporators

▶ Model RS 100-PRO

RS Lab

- 1 | Large LCD screen with continuous digital monitoring.
- 2 | Temperature control with adjustable safety circuit.
- 3 | Patented refrigerant (condensing surface 1500 cm²).
- 4 | Motorised lift with quick-action system with adjustable end-position recognition.
- 5 | Patented pressure spring resulting in a perfectly sealed system.
- 6 | Double PTFE coating resistant to chemicals.
- 7 | Borosilicate glass set (included). 1 L evaporation flask.
- 8 | USB connection for PC control.

Code	PGB006	PGB007
Model	Borosilicate	Covered, borosilicate
Bath capacity	5 L (for water or oil)	
Rotary speed	20-280 rpm (reversible rotation)	
Maximum bath temperature	180 °C (± 1)	
Timer slot	1 a 999 min motorized	
Spindle travel	150 mm	
Power	1400 W	
Dimensions [LxAxH]	465x457x583 mm	
Power	220-240V, 50/60Hz	
Protection class (DIN EN60529)	IP20	

Compatible accessories Promax - NOT included with the equipment



Complete vertical glassware

Code	Capacity
PGG014	1L
PGG015	1L, recubierto



Connector for evaporation flask

Code	Ground joint
PGG016	29-32, 24-29
PGG017	29-32, 19-26
PGG018	29-32, 14-23



Foam brake piece

Code	Description
PGG019	29/32



Vapor tube piece

Code	Ground joint
PGG020	29/32



Seal R-Type PTFE

Code	Type
PGG021	Type-R



Receiving flask

Code	Description
PGG024	100 mL esm. 35-20
PGG025	250 mL esm. 35-20
PGG026	500 mL esm. 35-20
PGG027	1000 mL esm. 35-20
PGG028	2000 mL esm. 35-20



▶ PJB - Filtration units/Manifolds

▶ Filtration assembly



- 1| Vacuum filtration for contamination analysis, solvent filtration for HPLC, etc.
- 2| 40/35 frosted borosilicate glass set
- 3| Poreus plate (Ø 40 mm) with integrated vacuum connection. Funnel for filtration system graduated and clamp in anodized aluminium.

Code	PJB001	
Composed of	PJD002	Funnel for filtration system, 300 mL
	PJD003	Glass base and cap
	PBH030	Flask Erlenmeyer (40/35), 1000 mL
	PJD006	Clamp for filtration equipment



▶ Funnel filtration system for membranes



- 1| The glass parts are made of borosilicate glass with 40/35 frosted joints and the clamp is made of anodised aluminium.
- 2| Vacuum connection integrated in the body with porous plate and flask mouth..

Code	Description
PJB006	Filtration system, 300 ml

Composed of:

Code	Description
PBH038	Ground joint flask 40/35, 1000 ml
PJD017	Glass base and cap
PJD016	Funnel for filtration system, 300 ml
PJD020	Spring clam, Aluminium



Code	Description
PJB008	Filtration system, 300 ml

Composed of:

Code	Description
PBH039	Ground joint flask 40/35, 2000 ml
PJD017	Glass base and cap
PJD016	Funnel for filtration system, 300 ml
PJD020	Spring clam, Aluminium



▶ Filtration system with silicone stopcock



- 1| The glass parts are made of borosilicate glass and the clamp is made of anodised aluminium.
- 2| The vacuum connection is located on the kitasatos flask.

Code	Description
PJB007	Filtration system, 300 ml

Composed of:

Code	Description
PJH023	Vacuum filtering Flask 1000 ml
PJD018	Sintered base with stopper
PJD016	Funnel for filtration system, 300 ml
PJD020	Spring clam, Aluminium
PJD005	Silicon stopper, 1 hole





PJB - Filtration units/Manifolds

▶ Fritted glass base with stopper



Code	Description
PJB015	Filtration system, 15 mL The porous plate has 25 mm Ø Graduated funnel for filtration system

Composed of:

Code	Description
PJD024	Fritted glass base with stopper
PJD031	Funnel for filtration system, 15 ml
PJD025	Fritted glass base with stopper
PJD021	Spring clam, Aluminium

▶ Vacuum manifold simple circuit



- 1| Vacuum filtration for microbiological controls, quality control, water and solvent analysis, etc.
- 2| Single circuit filtration ramps of 1, 3 and 6 positions.
- 3| Made of autoclavable stainless steel (316L).
- 4| They have independent control valves. Rubber connections included.

Code	Positions	Valve	Ø olive	Dimensions
PJB002	1	90°	12 mm	240x120x90 mm
PJB003	3	90°	12 mm	480x120x90 mm
PJB004	6	90°	12 mm	840x120x90 mm

▶ Vacuum manifold, double circuit



- 1| Vacuum filtration for microbiological controls, quality control, water and solvent analysis, etc.
- 2| 3 position double circuit ramp for continuous filtration of large volumes of liquid.
- 3| Made of autoclavable stainless steel (316L).
- 4| Features independent control valves. Rubber connections included.

Code	Positions	Valve	Ø olive	Dimensions
PJB005	3	90°	12 mm	470x120x90 mm

▶ Vacuum manifold kit, 1 position



- 1| Made of stainless steel, which allows its sterilization by autoclave (121°C) or dry heat.
- 2| Keys or control valves in each position to work independently.

Code	Description
PJB009	Vacuum manifold kit, 1 position without vacuum pump

Composed of:

Code	Description
PJB002	Vacuum manifold 1 places
PJD001	Glass filter holder, 300 mL
PJH003	Filtering flask 1000 mL
BMH110	Red rubber stopper 1 hole



▶ PJB - Filtration units/Manifolds

▶ Vacuum manifold kit, 1 position

Nahita

Code	Description
PJB010	Vacum manifold kit, 1 position, with vacum pump

Composed of:

Code	Description
PJB002	Vacuum manifold 1 places
PJD001	Glass filter holder, 300 mL
PJH003	Filtering flask 1000 mL
PXB002	Vacuum pumps 25 L/min
BMH110	Red rubber stopper 1 hole



▶ Vacuum manifold kit, 3 positions

Nahita

Code	Description
PJB011	Vacum manifold kit, 3 position without vacum pump

Composed of:

Code	Description
PJB003	Vacuum manifold 3 places
3x PJD001	Glass filter holder, 300 mL
PJH003	Filtering flask 1000 mL
BMH110	Red rubber stopper 1 hole



Code	Description
PJB012	Vacum manifold kit, 3 position, with vacum pump

Composed of:

Code	Description
PJB003	Vacuum manifold 3 places
3 x PJD001	Glass filter holder, 300 mL
PJH004	Filtering flask 2000 mL
PXB002	Vacuum pumps 25 L/min
BMH110	Red rubber stopper 1 hole



▶ Vacuum manifold kit, 6 positions

Nahita

Code	Description
PJB013	Vacum manifold kit, 6 position without vacum pump

Composed of:

Code	Description
PJB004	Vacuum manifold 6 places
6 x PJD001	Glass filter holder, 300 mL
PJH004	Filtering flask 2000 mL
BMH110	Red rubber stopper 1 hole





PJB - Filtration units/Manifolds

▶ Vacuum manifold kit, 6 positions



Code	Description
PJB014	Vacum manifold kit, 6 position, with vacuum pump





Composed of:

Code	Description
PJB004	Vacuum manifold 6 places
6 x PJD001	Glass filter holder, 300 mL
PJH004	Glass filter holder, 2000 mL
PXB002	Vacuum pumps 25 L/min
BMH110	Red rubber stopper 1 hole



PJD - Filtration units/Manifolds, accessories

▶ Filtration units accessories











	Code	Description	Model Filtration units
	PJD001	Glass filter holder, 300 mL	<input type="checkbox"/>
	Composed of:		
	PJD002	Funnel for filtration system, 300 ml	
	PJD006	Clamp for filtration equipment	
	PJD007	Glass filter holder-manifold connector	
	PJD008	Inox filter holder, 300 mL	<input type="checkbox"/>
	PJD009	Inox filter holder, 500 mL	
	Composed of:		
	PJD011	Stainless steel filtration funnel 300 mL*	
	PJD012	Stainless steel filtration funnel, 500 mL*	
	PJD013	Stainless steel filtration body	
	PJD014	Stainless steel grating	
	PJD006	Clamp for filtration equipment	
	*Includes stainless steel cover (PJD010)		
	PJD010	Stopper for filtration funnels	<input type="checkbox"/>
	PJD015	Silicone cap for double manifold	<input type="checkbox"/>

 = Accessory compatible with the indicated equipment



▶ PJD - Filtration units/Manifolds, accessories

▶ Filtration units accessories

	Code	Description	Model	
			Endoglassware	Glassco
	PJD002	Filtration funnel 300 mL	<input type="checkbox"/>	
	PJD016	Funnel for filtration system 300 mL		<input type="checkbox"/>
	PJD031	Funnel 15ml borosilicate		
	PJD003	Glass base and cap 40 mm	<input type="checkbox"/>	
	PJD017	Glass base and cap 47 mm		<input type="checkbox"/>
	PJD018	Sintered base with stopper		<input type="checkbox"/>
	PJD020	Spring clamp 47 mm		<input type="checkbox"/>
	PJD021	Spring clamp 25 mm		<input type="checkbox"/>
	PJD022	Spring clamp 90 mm		<input type="checkbox"/>
	PJD023	Spring clamp 15 mL		<input type="checkbox"/>
	PJD024	Fritted glass base with stopper, 15 mL		<input type="checkbox"/>
	PJD025	Fritted glass base, 25 mL		<input type="checkbox"/>
	PJD027	Stainless steel screen, 90 mm		<input type="checkbox"/>
	PJD030	Stainless steel screen, 47 mm		<input type="checkbox"/>
	PJD028	Gasket PTFE, 90 mm		<input type="checkbox"/>
	PJD029	Gasket PTFE, 47 mm		<input type="checkbox"/>
	PJD041	Gasket teflon, 25 mm		<input type="checkbox"/>
	PJD040	Base stopper and stainless steel screen, 25 mm		<input type="checkbox"/>
	PJD042	Support screen 25 mm		<input type="checkbox"/>

= Accessory **compatible** with the indicated equipment

▶ PJH - Filtering flasks

▶ Glass



- 1 | With approximate volume graduation.
- 2 | Borosilicate glass. Thick wall.

Code	Capacity	Ø Aprox.	Ø Olive
PJH001	250 mL	30 mm	12 mm
PJH002	500 mL	29 mm	12 mm
PJH003	1000 mL	39 mm	16 mm
PJH004	2000 mL	40 mm	16 mm



Code	Capacity	Ø base	Ø boca (int)	Ø olive
PJH005	100 mL	70 mm	24 mm	11 mm
PJH006	250 mL	85 mm	35 mm	11 mm
PJH007	500 mL	105 mm	35 mm	11 mm
PJH008	1000 mL	135 mm	45 mm	11 mm
PJH009	2000 mL	165 mm	60 mm	11 mm

▶ Flask filtering glass



Code	Capacity	Ø base	Ø boca (int)	Ø olive
PJH010	3000 mL	170 mm	70 mm	11 mm
PJH011	5000 mL	185 mm	80 mm	11 mm
PJH012	10000 mL	240 mm	80 mm	11 mm

▶ Filter flask with plastic side hose



- 1 | Borosilicate glass.
- 2 | Thick wall.
- 3 | Polypropylene pipe and olive.

Code	Cap.	Ø base	Ø boca (int.)	Ø olive
PJH013*	100 mL	70 mm	24 mm	105 mm
PJH014*	250 mL	85 mm	35 mm	145 mm
PJH015	500 mL	105 mm	35 mm	175 mm
PJH016	1000 mL	135 mm	45 mm	230 mm
PJH017	2000 mL	165 mm	60 mm	255 mm

*This item is supplied under request



▶ PJH - Filtering flasks

▶ Filter flask with plastic side hose



Code	Cap.	Ø base	Ø boca (int.)	Ø olive
PJH018*	3000 mL	170 mm	70 mm	295 mm
PJH019	5000 mL	185 mm	80 mm	360 mm
PJH020	10000 mL	240 mm	80 mm	420 mm

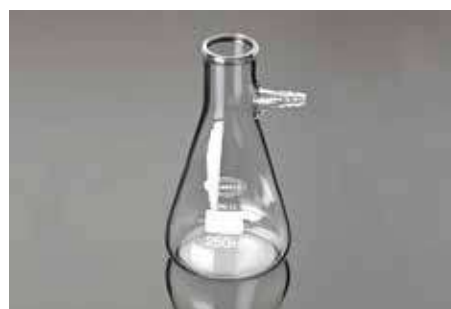
*This item is supplied under request



▶ Vacuum filtering Flask



Code	Capacity
PJH023	1000 mL
PJH024	2000 mL
PJH025	100 mL



▶ PKB - Chromatography columns

▶ Glass chromatography column



- 1| PTFE needle stopcock
- 2| Borosilicate glass 3.3

Code	Dimensions	Frosted
PKB001	10x200mm	14/23
PKB002	10x300mm	14/23
PKB003	20x200mm	19/26
PKB004	20x400mm	19/26
PKB005	30x400mm	29/32
PKB006	30x500mm	29/32



BORO
3.3

▶ Glass chromatography column



- 1| PTFE stopcock
- 2| Borosilicate glass 3.3

Code	Dimensions	Frosted
PKB007	10x100mm	14/23
PKB008	10x200mm	14/23
PKB009	15x200mm	14/23
PKB010	10x300mm	14/23
PKB011	20x400mm	29/32
PKB012	30x600mm	29/32



BORO
3.3



PKC - Chromatography paper



Code	Dimensions	Box of
PKC001	100 x 300 mm	100 sheets
PKC006	140 x 60 mm	100 sheets
PKC003	200 x 200 mm	100 sheets
PKC004	250 x 250 mm	100 sheets
PKC005	285 x 250 mm	25 sheets
PKC007	460 x 570 mm	100 sheets
PKC008	580 x 600 mm	100 sheets



PKD - Chamber for chromatography



Code	Dimensions	Grooves
PKD001	100 x 100 mm	-
PKD002	100 x 100 mm	Yes
PKD501	200 x 200 mm	-
PKD502	200 x 300 mm	Yes



PLB - Gooch

Gooch crucible

d: diameter.
h: height.

**Nahita**

- 1 | Glazed except for the edge and the base.
- 2 | With perforated disc and enameled cover with handle.

Code	Capacity	Diameter	Height
PLB001	15 mL	32 mm	34 mm
PLB002	20 mL	36 mm	38 mm
PLB003	30 mL	40 mm	46 mm



- 1 | With perforated disc; without cover.
- 2 | Glazed except for the edge and base

Code	Capacity	Diameter	Height
PLB004	17 mL	30 mm	36 mm
PLB005	25 mL	35 mm	43 mm
PLB006	35 mL	39 mm	49 mm
PLB007	120 mL	60 mm	71 mm

*This item is supplied under request



▶ PLG - With porous plates

▶ Filter crucible



1 | Poreus bottom; no lid. Glazed except for the edge and base.

Code	Poresity	Capacity
PLG001	6 μm	8 mL
PLG004	6 μm	15 mL
PLG007	6 μm	25 mL
PLG010	6 μm	35 mL
PLG013	6 μm	50 mL
PLG002	7 μm	8 mL
PLG005	7 μm	15 mL
PLG008	7 μm	25 mL
PLG011	7 μm	35 mL
PLG014	7 μm	50 mL
PLG003	8 μm	8 mL
PLG006	8 μm	15 mL
PLG009	8 μm	25 mL
PLG012	8 μm	35 mL
PLG015	8 μm	50 mL



▶ Glass



Code	Poresity	Capacity
PLG028	G2	50 mL
PLG029	G3	30 mL
PLG030	G1	30 mL
PLG031	G4	30 mL
PLG032	G4	50 mL



▶ PNB - Short stem, glass

▶ Short stem funnel, glass



1 | For liquid transfer or solution filtration. 60° cone angle and borosilicate glass except (*).

Code	Diameter	Cap.	Ø stem	Ø filter
PNB001	40 mm	10 mL	4 mm	50-60 mm
PNB002	50 mm	30 mL	7 mm	50-60 mm
PNB003	75 mm	100 mL	9 mm	90-110 mm
PNB004	90 mm	150 mL	10 mm	110-125 mm
PNB005	100 mm	200 mL	11 mm	110-125 mm
PNB006*	120 mm	400 mL	12 mm	125-150 mm
PNB007*	150 mm	750 mL	15 mm	150-180 mm



1 | According to ASTM E438 Type 1 Class A. Complies with USP standards. 60° cone angle.

Code	Diameter	Capacity
PNB008	35 mm	8 mL
PNB009	45 mm	15 mL
PNB010	55 mm	30 mL
PNB011	75 mm	95 mL
PNB012	85 mm	140 mL
PNB013	100 mm	190 mL
PNB014	125 mm	400 mL
PNB015	150 mm	750 mL



DIN
4798

BORO
3.3



PNB - Short stem, glass

▶ Short stem, glass



1 | 60° cone angle.



Code	Diameter
PNB017	250 mm
PNB019	55 mm
PNB020	75 mm
PNB021	100 mm
PNB023	125 mm
PNB024	150 mm



PNC - Short stem, plastic



1 | Made of autoclavable polypropylene (PP). 60° cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)
PNC001	50 mm	50 x 7 mm
PNC002	75 mm	75 x 9 mm
PNC003	100 mm	95 x 9 mm
PNC004	150 mm	110 x 16 mm
PNC014*	100 mm	-

* PTFE



1 | Made of autoclavable polypropylene (PP). 60° cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)	Cap.
PNC005	27 mm	37 x 4 mm	3.5 mL
PNC006	37 mm	37 x 5 mm	10 mL
PNC007	46 mm	43 x 5 mm	20 mL
PNC008	66 mm	62 x 10 mm	50 mL
PNC009	81 mm	70 x 11 mm	100 mL
PNC010	100 mm	82 x 11 mm	200 mL
PNC011	120 mm	86 x 11 mm	350 mL
PNC012	150 mm	115 x 14 mm	700 mL
PNC013	183 mm	140 x 14 mm	1250 mL



1 | Transparent. Rapid flow due to a steep 60° angle. Practical handle with loop for hanging.

Code	Volume	Dimensions	Inner stem Ø	Stem length
PNC501	5 mL	Ø 30 x 45 mm	2 mm	3.5 mL
PNC502	6 mL	Ø 30 x 47 mm	4 mm	10 mL
PNC503	14 mL	Ø 40 x 65mm	4 mm	20 mL
PNC504	32 mL	Ø 50 x 85mm	7 mm	50 mL
PNC505	88 mL	Ø 75 x 108mm	7 mm	100 mL
PNC506	222 mL	Ø 100 x 155 mm	8 mm	200 mL
PNC507	342 mL	Ø 122 x 180mm	11 mm	350 mL
PNC508	817 mL	Ø 150 x 220mm	15 mm	700 mL



PND - Long stem



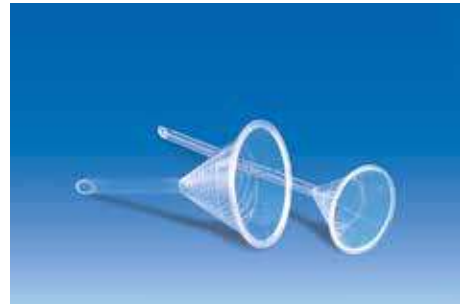
1 | Made of polypropylene (PP). 60° cone angle and grooved external surface.

Code	Diameter	Stem (Lx Ø)	Cap.
PND001	65 mm	150 x 8 mm	50 mL
PND002	104 mm	145 x 8 mm	225 mL
PND003	79 mm	143 x 8 mm	100 mL



1 | Crystal clear. The spiral-shaped ribs increase the rate of filtration and prevent the trapping of air between the filter paper and the funnel.

Code	Volume	Dimensions	Ø Stem	Stem length
PND501	80 mL	Ø 70 x 210 mm	3 mm	150 mm
PND502	250 mL	Ø 100 x 198 mm	7 mm	108 mm
PND503	630 mL	Ø 140 x 247mm	10 mm	132 mm
PND504	1800 mL	Ø 196 x315 mm	20 mm	155 mm



PNF - Buchner, porcelain

Büchner, porcelain

*d: diameter
h: Height.*



1 | Used in vacuum filtration processes. With perforated plate to support the filter paper. Enamelled.

Code	Cap.	Height total	Ø int.	Ø medium
PNF001	30 mL	70 mm	40 mm	13 mm
PNF002	50 mL	80 mm	50 mm	15 mm
PNF003	120 mL	125 mm	70 mm	20 mm
PNF004	200 mL	145 mm	95 mm	21 mm
PNF005	400 mL	165 mm	110 mm	26 mm
PNF006	600 mL	170 mm	125 mm	30 mm
PNF007	1000 mL	195 mm	135 mm	33 mm



Code	d1	d2	d3	h1	h2	Cap.	Ø p. filter
PNF008	48 mm	38 mm	1 mm	24 mm	43 mm	35 mL	45 mm
PNF009	62 mm	45 mm	1 mm	30 mm	64 mm	70 mL	55 mm
PNF010	77 mm	58 mm	1 mm	35 mm	64 mm	120 mL	70 mm
PNF011	97 mm	70 mm	2 mm	40 mm	71 mm	240 mL	90 mm
PNF012	116 mm	95 mm	2 mm	49 mm	83 mm	400 mL	110 mm
PNF013	130 mm	110 mm	2 mm	52 mm	85 mm	600 mL	125 mm
PNF014	156 mm	130 mm	2 mm	59 mm	96 mm	1000 mL	150 mm
PNF015	192 mm	160 mm	2 mm	74 mm	117 mm	2000 mL	185 mm
PNF016	248 mm	220 mm	2 mm	90 mm	117 mm	4000 mL	240 mm
PNF017	296 mm	270 mm	2 mm	105 mm	130 mm	7000 mL	295 mm
PNF018	334 mm	300 mm	2 mm	120 mm	133 mm	10000 mL	325 mm





PNF - Buchner, porcelain



1| Transparent. Rapid flow due to a steep 60° angle. Practical handle with loop for hanging.

Code	Diameter	Height
PNF023	30 mm	59 mm
PNF024	40 mm	82 mm
PNF025	50 mm	95 mm
PNF026	65 mm	112 mm
PNF027	80 mm	135 mm
PNF028	100 mm	150 mm
PNF029	125 mm	175 mm
PNF030	150 mm	205 mm
PNF031	200 mm	240 mm
PNF032	250 mm	280 mm
PNF033	300 mm	325 mm



PNG - Buchner, glass

▶ Funnel with sintered disc



- 1| With G0 to G4 porosity filter plate.
- 2| Borosilicate glass According to ASTM E438 Type 1 Class A.
- 3| For other volumes and/or porosity, please consult.

Code	Capacity	Ø plate	Poresity
PNG004	35 mL	30 mm	G0
PNG024	35 mL	30 mm	G1
PNG006	35 mL	30 mm	G2
PNG007	35 mL	30 mm	G3
PNG026	35 mL	30 mm	G4
PNG009	80 mL	40 mm	G0
PNG028	80 mL	40 mm	G1
PNG029	80 mL	40 mm	G2
PNG030	80 mL	40 mm	G3
PNG031	80 mL	40 mm	G4
PNG014	200 mL	65 mm	G0
PNG032	200 mL	65 mm	G1
PNG033	200 mL	65 mm	G2
PNG034	200 mL	65 mm	G3
PNG018	200 mL	65 mm	G4
PNG019	500 mL	90 mm	G0
PNG037	500 mL	90 mm	G1
PNG038	500 mL	90 mm	G2
PNG039	500 mL	90 mm	G3
PNG023	500 mL	90 mm	G4
PNG040	1000 mL	120 mm	G0
PNG041	1000 mL	120 mm	G1
PNG042	1000 mL	120 mm	G2
PNG043	1000 mL	120 mm	G3
PNG044	1000 mL	120 mm	G4

▶ Glass conical funnel



Code	Frosted
PNG045	29/32



▶ PNG - Buchner, glass

▶ Perforated silicone stopper



Code	N° perforations
PNG046	8



▶ Filtration funnel



Code	Capacity
PNG047	1000 mL



▶ PNH - Büchner, plastic

▶ Büchner, plastic



- 1| Strong, lightweight and molded in two parts, removable for cleaning.
- 2| Made of polypropylene. High chemical resistance.

Code	Cap. mm	Ø filter mm	Ø holes mm	Long. stem
PNH001	40	42.5	1.2	47
PNH002	70	55	1.1	57
PNH003	180	70	2	57
PNH004	285	80	2	65
PNH005	390	90	2.5	68
PNH006	810	110	2.5	92
PNH007	2100	160	2.8	105
PNH008	6000	240	3	143

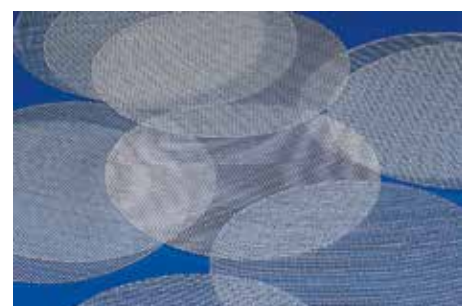


▶ Discs



- 1| High-density polyethylene mesh.
- 2| It is placed between the filter paper and the perforated surface, avoiding the clogging of the holes.

Code	Ø (mm)	For Büchner code
PNH009	45	PNH001
PNH010	55	PNH002
PNH011	70	PNH003
PNH012	80	PNH004
PNH013	90	PNH005
PNH014	110	PNH006
PNH015	160	PNH007
PNH016	240	PNH008





▶ PNJ - Buchner, Guko adapters

▶ Set of 7 adapters, neoprene



Kartell

Code	Description
PNJ002	Set of 7 adapters made in neoprene

Nahita

1 | Made of red natural rubber.

Code	Talla	Ø mayor (ext.)	Ø mayor (int.)	Height	Thickness
PNJ003	1	37 mm	23 mm	26 mm	3 mm
PNJ004	2	45 mm	30 mm	33 mm	3 mm
PNJ005	3	55 mm	45 mm	40 mm	4 mm

▶ PNL - For powder



AUTO
+121°

Kartell

- 1 | Made of polypropylene. Autoclavables.
- 2 | Can also be used for large volumes of liquids.
- 3 | 60° cone angle and grooved external surface. Excellent chemical resistance..

Code	Diameter	Stem (LxØ)	Capacity
PNL001	60 mm	18.00 x 15 mm	45 mL
PNL002	80 mm	22.20 x 15 mm	94 mL
PNL003	100 mm	24.80 x 25 mm	200 mL
PNL004	120 mm	27.10 x 30 mm	360 mL
PNL005	150 mm	39.90 x 36 mm	730 mL
PNL006	180 mm	48.80 x 43 mm	1290 mL



Code	Diameter	Height	Ø Wide stem
PNL008	80 mm	75 mm	25 mm



VITLAB

Code	Dimensions	Inner stem	Stem length
PNL501	Ø 150 x 138 mm	28 mm	22 mm
PNL502	Ø 120 x 105 mm	27 mm	22 mm
PNL503	Ø 100 x 92mm	24 mm	23 mm
PNL504	Ø 65 x 70 mm	15 mm	26 mm
PNL505	Ø 80 x 75 mm	21 mm	26 mm



APTO



▶ PNM - For liquid transfer, plastic

▶ For liquid transfer

Kartell

- 1 | Made of high density polyethylene.
- 2 | With edge to avoid spills. With eyelet to hang them and a ribbed outer surface.

Code	Diameter	Cap.	Stem (LxØ)
PNM001	80 mm	100 mL	27 x 13 mm
PNM002	110 mm	300 mL	38 x 15 mm
PNM003	130mm	450 mL	43 x 20 mm
PNM004	140 mm	750 mL	52 x 24 mm
PNM005	180 mm	1500 mL	68,5 x 30 mm
PNM006	220 mm	2750 mL	81 x 35 mm
PNM007	260 mm	4000 mL	75 x 38 mm
PNM008	310 mm	5500 mL	80 x 43 mm
PNM009	420 mm	10000 mL	138 x 57 mm



ENDO
glassware

- 1 | Made of high density polyethylene. With edge, eyelet and ribbed outer surface.

Code	Diameter	Stem (LxØ)	Capacity
PNM010	80 mm	30 x 13 mm	100 mL
PNM011	110 mm	38 x 15 mm	300 mL
PNM012	130 mm	43 x 20 mm	450 mL
PNM013	140 mm	52 x 24 mm	750 mL
PNM014	180 mm	69 x 30 mm	1500 mL
PNM015	220 mm	81 x 35 mm	1750 mL
PNM016	260 mm	75 x 38 mm	4000 mL
PNM017	310 mm	80 x 43 mm	5500 mL
PNM018	400 mm	130 x 45 mm	10.000 mL



▶ Large Funnel

VITLAB

- 1 | Industrial version, translucent. Large funnels Ø 430 mm made of PE-HD.

Code	Diameter	Lenght	Stem Ø
PNM501	200 mm	200 mm	22 mm
PNM502	250 mm	260 mm	30 mm
PNM503	350 mm	440 mm	35 mm
PNM504	400 mm	365 mm	42 mm
PNM505	430 mm	420 mm	37 mm



▶ PNN - For liquid trans, Inox

▶ Funnel with handle

SELECT

- 1 | Industrial version, translucent. Large funnels Ø 430 mm made of PE-HD.

Code	Diameter	High	Exit
PNN501	200 mm	183 mm	20 mm
PNN502	150 mm	159 mm	20 mm
PNN503	120 mm	112 mm	10 mm
PNN504	100 mm	100 mm	10 mm



▶ PNZ - Others

▶ Thistle funnel



- 1 | They can be inserted into small plug holes.
- 2 | Facilitates the addition of liquids to closed flasks. Avoids loss of gases generated in certain reactions.

Code	Type of stem	Lenght	Ø cup	Ø stem
PNZ002	Thistle	300 mm	40 mm	8 mm
PNZ001	With 1 bulb	300 mm	40 mm	8 mm

▶ Half-round funnel



- 1 | Special ST-funnels for use on multi-neck flasks and labware.

Code	NS	Lenght
PNZ501	14/23	80 mm
PNZ502	19/26	100 mm
PNZ503	29/32	140 mm

▶ PQB - Squibb

▶ Separation funnel ground



- 1 | Frosted mouth and polypropylene cap.

Code	Capacity	Frosted
PQB001	50 mL	19/29
PQB002	100 mL	19/26
PQB003	125 mL	19/26
PQB005	250 mL	19/26
PQB006	250 ml	24/29
PQB004	250 ml	29/32
PQB008	500 mL	24/29
PQB007	500 mL	29/32
PQB009	1000 mL	29/32
PQB010	2000 mL	29/32



- 1 | Frosted mouth and polypropylene cap.

Code	Capacity	Frosted	Nº Key
PQB011	100 mL	19/26	2,5 mm
PQB012	250 mL	29/32	4 mm
PQB013	500 mL	29/32	4 mm
PQB014	1000 mL	29/32	6 mm
PQB015	2000 mL	29/32	6 mm



▶ PQB - Squibb

▶ Separating funnel Squibb



1 | Polypropylene cap. No graduation

Code	Capacity	Frosted	N° Key
PQB021	50 mL	19/26	2,5 mm
PQB022	100 mL	19/26	2,5 mm
PQB023	250 mL	29/32	4 mm
PQB024	500 mL	29/32	4 mm
PQB025	1000 mL	29/32	6 mm
PQB026	2000 mL	29/32	6 mm



1 | Polypropylene cap. No graduation

Code	Capacity	Frosted	N° Key
PQB039	250 mL	29/32	4 mm
PQB040	500 mL	29/32	4 mm



▶ Separating funnel



1 | PTFE cap

Code	Capacity	Frosted	N° Key
PQB027	250 mL	29/32	2
PQB028	500 mL	29/32	4



BORO 3.3

▶ Separating funnel, glass



1 | Polypropylene cap. No graduation

Code	Capacity	Frosted	N° Key
PQB016	50 mL	19/26	2,5 mm
PQB017	100 mL	19/26	2,5 mm
PQB018	250 mL	29/32	4 mm
PQB019	500 mL	29/32	4 mm
PQB020	1000 mL	29/32	6 mm
PQB036	2000 mL	29/32	6 mm



1 | Polypropylene cap. With graduation

Code	Capacity	Frosted	N° Key
PQB038	500 mL	29/32	4 mm



▶ PQB - Squibb

▶ Plastic



AUTO
+121°

Kartell

- 1 | Transparent polymethylpentane (PMP) funnel, with embossed graduation.
- 2 | Autoclavable. Excellent chemical resistance.
- 3 | Screw cap with standardized outlet with 29/32 cap. PMP stopcock with valve and nylon connectors.

Code	Capacity	Grad. (mL)	Up to(mL)
PQB029	500	2	20
		5	50
		25	500

▶ PQD - Gilson

▶ Separating funnel Gilson



BORO
3.3

ENDO
glassware

- 1 | Polypropylene cap

Code	Diameter	Frosted
PQD001	50 mL	19/26
PQD002	100 mL	19/26
PQD003	125 mL	19/26
PQD004	250 mL	19/26
PQD005	250 mL	24/29
PQD006	250 mL	29/32
PQD007	500 mL	24/29
PQD008	1000 mL	29/32

▶ Gilson funnel



BORO
3.3

SIMAX
TECH REPAIR

- 1 | Polypropylene cap

Code	Cap.	SJ	N° Key	d.	h.
PQD009	50 mL	19/26	2	9 mm	60 mm
PQD010	100 mL	19/26	2	9 mm	60 mm
PQD012	250 mL	29/32	2	9 mm	60 mm

* This item is supplied under request



GLASSCO

- 1 | Polypropylene cap

Code	Cap.	SJ	N° Key
PQD024	50 mL	19/26	2,5 mm
PQD025	100 mL	19/26	2,5 mm
PQD026	250 mL	29/32	4 mm
PQD027	500 mL	29/32	4 mm
PQD028	1000 mL	29/32	6 mm
PQD029	2000 mL	29/32	6 mm



▶ PQD - Gilson

▶ Glass, stopcock



1 | Polypropylene cap

Code	Capacity	Frosted
PQD019	100 mL	19/26
PQD020	250 mL	29/32
PQD021	500 mL	29/32
PQD022	1000 mL	29/32
PQD023	2000 mL	29/32



▶ PQG - Brome

▶ Separatory funnel spherical, glass stopcock



1 | Polypropylene cap

Code	Capacity	Frosted
PQG009	250 mL	29/32
PQG011	2000 mL	29/32
PQG012	500 mL	29/32



BORO
3.3

▶ Globe shape separating funnel



1 | Polypropylene cap.

Code	Capacity	Frosted	N° Key
PQG013	50 mL	19/26	2,5 mm
PQG014	100 mL	19/26	2,5 mm
PQG015	250 mL	29/32	4 mm
PQG016	500 mL	29/32	4 mm



▶ PQL - Cylindrical

▶ PTFE Stop cock



1 | Teflon Key

Code	Capacity	Frosted	Graduación
PQL001	25 mL	14/23	No
PQL002	250 mL	29/32	Yes



BORO
3.3

▶ Cylindrical funnel, glass



1 | Please request other capacities

Code	Cap.	SJ	N° Key
PQL003	50 mL	14/23	25
PQL004	250 mL	19/26	4





PQL - Cylindrical

▶ Key PTFE

BORO
3.3

1 | Teflon Key

Code	Diameter	Frosted	N° Key
PQL005	250 mL	19/26	4



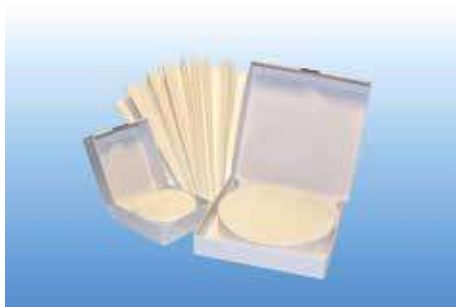
PQN - Pressure equalizing funnels

BORO
3.3

Code	Diameter	Frosted	N° Key
PQN002	100 mL	29/32	Glass
PQN007	100 mL	14/23	Teflon
PQN009	250 mL	29/32	Teflon



PSB - Standard



1 | Application in pharmaceutical and agro-food industries, health, education and research.

Flat

Ref.	Ø	Pack
PSB001	55 mm	100
PSB002	70 mm	100
PSB003	90 mm	100
PSB004	100 mm	100
PSB005	130 mm	100
PSB006	150 mm	100
PSB007	185 mm	100
PSB008	190 mm	100
PSB009	250 mm	100
PSB010	330 mm	100
PSB011	400 mm	100
PSB012	450 mm	100
PSB013	500 mm	100

Folded

Ref.	Ø	Pack
PSB014	70 mm	100
PSB015	100 mm	100
PSB016	130 mm	100
PSB017	150 mm	100
PSB018	190 mm	100
PSB019	250 mm	100
PSB020	330 mm	100
PSB021	400 mm	100
PSB022	450 mm	100
PSB023	500 mm	100
PSB024	650 mm	100

Standard filter characteristics

Type	Weight (g/m ²)	Thickness (mm)	pH	Humidity %	Dry resistance (kg)		Wet resistance(kg)		Poresity (µm)
					Longitudinal	Through	Longitudinal	Through	
Standard	77	0.16/0.18	7	6.8 ± 0.2	3.5/4.0 > 3.5	1.3/1.4 > 2.2	> 0.8	> 0.5	8-11



▶ PSC - Qualitative, very slow

▶ Filters FC29E



- 1| Very slow filtration speed. Extra hard paper.
- 2| Suitable for filtering aqueous solutions and volatile liquids such as alcohols, fuel, ether, etc.

Flat

Ref.	Ø	Pack
PSC001	25 mm	100
PSC002	40 mm	100
PSC003	55 mm	100
PSC004	70 mm	100
PSC005	90 mm	100
PSC006	110 mm	100
PSC007	125 mm	100
PSC008	135 mm	100
PSC009	150 mm	100
PSC010	185 mm	100
PSC011	210 mm	100
PSC012	240 mm	100
PSC013	270 mm	100
PSC014	320 mm	100
PSC015	385 mm	100
PSC016	450 mm	100
PSC017	500 mm	100
PSC018	650 mm	50
PSC019	700 mm	50
PSC020	800 mm	50
PSC021	900 mm	50

Folded

Ref.	Ø	Pack
PSC022	90 mm	100
PSC023	110 mm	100
PSC024	125 mm	100
PSC025	135 mm	100
PSC026	150 mm	100
PSC027	185 mm	100
PSC028	210 mm	100
PSC029	240 mm	100
PSC030	270 mm	100
PSC031	320 mm	100
PSC032	385 mm	100
PSC033	450 mm	100
PSC034	500 mm	100
PSC035	650 mm	50
PSC036	700 mm	50
PSC037	800 mm	50



Filter characteristics FC29E

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC29E	180	0.45	2	200	Very good

▶ PSD - Qualitative, slow

▶ Filters FC22L



- 1| Slow filtering speed.
- 2| High retention dense texture. Suitable for vacuum filtration of injectable serum, etc.

Flat

Ref.	Ø	Pack
PSD001	25 mm	100
PSD002	40 mm	100
PSD003	55 mm	100
PSD004	70 mm	100
PSD005	90 mm	100
PSD006	110 mm	100
PSD007	125 mm	100
PSD008	135 mm	100
PSD009	150 mm	100
PSD010	185 mm	100
PSD011	210 mm	100
PSD012	240 mm	100
PSD013	270 mm	100
PSD014	320 mm	100
PSD015	385 mm	100

Folded

Ref.	Ø	Pack
PSD016	70 mm	100
PSD017	90 mm	100
PSD018	110 mm	100
PSD019	125 mm	100
PSD020	135 mm	100
PSD021	150 mm	100
PSD022	185 mm	100
PSD023	210 mm	100
PSD024	240 mm	100
PSD025	270 mm	100
PSD026	320 mm	100
PSD027	385 mm	100
PSD028	450 mm	100
PSD029	500 mm	100



Filter characteristics FC22L

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC22L	85	0.2	3	100	Average



PSD - Qualitative, slow

Filters FC49L



- 1 | Slow filtering speed. 150 g/m² paper with high retention and good strength.
- 2 | Suitable for biochemical and pharmaceutical industry.



Flat

Ref.	Ø	Pack
PSD032	25 mm	100
PSD033	40 mm	100
PSD034	55 mm	100
PSD030	70 mm	100
PSD031	90 mm	100
PSD035	110 mm	100
PSD036	125 mm	100
PSD037	135 mm	100
PSD038	150 mm	100
PSD039	185 mm	100
PSD040	210 mm	100
PSD041	240 mm	100
PSD042	270 mm	100
PSD043	320 mm	100
PSD044	385 mm	100
PSD045	450 mm	100
PSD046	500 mm	100

Folded

Ref.	Ø	Pack
PSD047	90 mm	100
PSD048	110 mm	100
PSD049	125 mm	100
PSD050	135 mm	100
PSD051	150 mm	100
PSD052	185 mm	100
PSD053	210 mm	100
PSD054	240 mm	100
PSD055	270 mm	100
PSD056	320 mm	100
PSD057	385 mm	100
PSD058	450 mm	100
PSD059	500 mm	100

Filter characteristics FC49L

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC49L	150	0.4	2	180	Very good

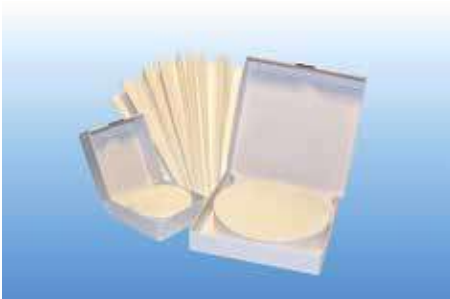


PSF - Qualitative, medium

Filters FC28M



- 1 | Average filtration rate.
- 2 | Very high resistance even wet.
- 3 | Suitable for filtering acid or alkaline solutions.



Flat

Ref.	Ø	Pack
PSF067	25 mm	100
PSF001	40 mm	100
PSF002	55 mm	100
PSF003	70 mm	100
PSF004	90 mm	100
PSF005	110 mm	100
PSF006	125 mm	100
PSF007	135 mm	100
PSF008	150 mm	100
PSF009	185 mm	100
PSF010	210 mm	100
PSF011	240 mm	100
PSF012	270 mm	100
PSF013	320 mm	100
PSF014	385 mm	100
PSF015	450 mm	100
PSF016	500 mm	100

Folded

Ref.	Ø	Pack
PSF017	70 mm	100
PSF018	90 mm	100
PSF019	110 mm	100
PSF020	125 mm	100
PSF021	135 mm	100
PSF022	150 mm	100
PSF023	185 mm	100
PSF024	210 mm	100
PSF025	240 mm	100
PSF026	270 mm	100
PSF027	320 mm	100
PSF028	385 mm	100
PSF029	450 mm	100
PSF030	500 mm	100

Filter characteristics FC28M

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC28M	80	0.18	5	40	Very good



▶ PSF - Qualitative, medium

▶ Filters FC20M



- 1 | Average filtration rate. Good retention capacity.
- 2 | For general applications and education.



Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSF031	25 mm	100	PSF048	70 mm	100
PSF032	40 mm	100	PSF049	90 mm	100
PSF033	55 mm	100	PSF050	110 mm	100
PSF034	70 mm	100	PSF051	125 mm	100
PSF035	90 mm	100	PSF052	135 mm	100
PSF036	110 mm	100	PSF053	150 mm	100
PSF037	125 mm	100	PSF054	185 mm	100
PSF038	135 mm	100	PSF055	210 mm	100
PSF039	150 mm	100	PSF056	240 mm	100
PSF040	185 mm	100	PSF057	270 mm	100
PSF041	210 mm	100	PSF058	320 mm	100
PSF042	240 mm	100	PSF059	385 mm	100
PSF043	270 mm	100	PSF060	450 mm	100
PSF044	320 mm	100	PSF061	500 mm	100
PSF045	385 mm	100			
PSF046	450 mm	100			
PSF047	500 mm	100			

Filter characteristics FC20M

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC20M	77	0.13	5	40	Good

▶ Filters FC75M



- 1 | Average filtration rate. Very pure paper.
- 2 | Most used type for qualitative analysis, phosphates, sugars, fertilizers.



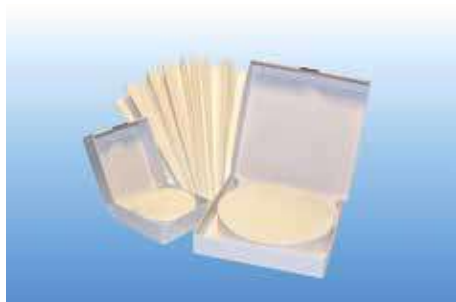
Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSF062	25 mm	100	PSF080	70 mm	100
PSF068	40 mm	100	PSF081	90 mm	100
PSF069	55 mm	100	PSF082	110 mm	100
PSF063	70 mm	100	PSF083	125 mm	100
PSF064	90 mm	100	PSF084	135 mm	100
PSF065	110 mm	100	PSF085	150 mm	100
PSF070	125 mm	100	PSF086	185 mm	100
PSF071	135 mm	100	PSF087	210 mm	100
PSF072	150 mm	100	PSF088	240 mm	100
PSF073	185 mm	100	PSF089	270 mm	100
PSF074	210 mm	100	PSF090	320 mm	100
PSF066	240 mm	100	PSF091	385 mm	100
PSF075	270 mm	100	PSF092	450 mm	100
PSF076	320 mm	100	PSF093	500 mm	100
PSF077	385 mm	100			
PSF078	450 mm	100			
PSF079	500 mm	100			

Filter characteristics FC75M

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC75M	75	0.16	6	50	Average

▶ PSG - Qualitative, fast

▶ Filters FC27E



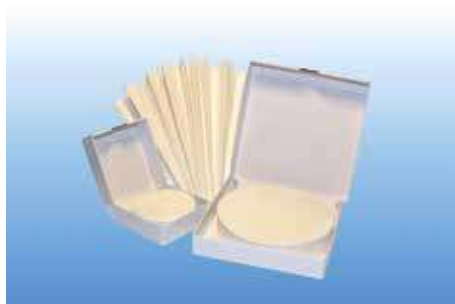
- 1 | Fast filtering speed. Extra soft thick paper.
- 2 | Suitable for the filtration of oils, syrups and fatty substances.
- 3 | Also used with Büchner funnels.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSG001	25 mm	100	PSG019	90 mm	100
PSG002	40 mm	100	PSG020	110 mm	100
PSG003	55 mm	100	PSG021	125 mm	100
PSG004	70 mm	100	PSG022	135 mm	100
PSG005	90 mm	100	PSG023	150 mm	100
PSG006	110 mm	100	PSG024	185 mm	100
PSG007	125 mm	100	PSG025	210 mm	100
PSG008	135 mm	100	PSG026	240 mm	100
PSG009	150 mm	100	PSG027	270 mm	100
PSG010	185 mm	100	PSG028	320 mm	100
PSG011	210 mm	100	PSG029	385 mm	100
PSG012	240 mm	100	PSG030	450 mm	100
PSG013	270 mm	100	PSG031	500 mm	100
PSG014	320 mm	100			
PSG015	385 mm	100			
PSG016	450 mm	100			
PSG017	500 mm	100			

Filter characteristics FC27E

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC27E	130	0.43	20	-	Good

▶ Filters FC26R



- 1 | Fast filtering speed.
- 2 | Very pure paper.
- 3 | Used in the preparation and analysis of pharmaceutical and metallurgical products.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSG034	25 mm	100	PSG051	70 mm	100
PSG035	40 mm	100	PSG052	90 mm	100
PSG036	55 mm	100	PSG053	110 mm	100
PSG037	70 mm	100	PSG054	125 mm	100
PSG038	90 mm	100	PSG055	135 mm	100
PSG039	110 mm	100	PSG056	150 mm	100
PSG040	125 mm	100	PSG057	185 mm	100
PSG041	135 mm	100	PSG058	210 mm	100
PSG042	150 mm	100	PSG059	240 mm	100
PSG043	185 mm	100	PSG060	270 mm	100
PSG044	210 mm	100	PSG061	320 mm	100
PSG045	240 mm	100	PSG062	385 mm	100
PSG046	270 mm	100	PSG063	450 mm	100
PSG047	320 mm	100	PSG064	500 mm	100
PSG048	385 mm	100			
PSG049	450 mm	100			
PSG050	500 mm	100			

Filter characteristics FC26R

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC26R	75	0.15	10	30	Acceptable



PSG - Qualitative, fast

Filters FC21R



- 1 | Fast filtering speed.
- 2 | Very pure paper.
- 3 | Suitable for filtration of mucilaginous liquids.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSG127	25 mm	100	PSG143	70 mm	100
PSG128	40 mm	100	PSG144	90 mm	100
PSG129	55 mm	100	PSG145	110 mm	100
PSG130	70 mm	100	PSG146	125 mm	100
PSG131	90 mm	100	PSG147	135 mm	100
PSG065	110 mm	100	PSG148	150 mm	100
PSG132	125 mm	100	PSG149	185 mm	100
PSG133	135 mm	100	PSG150	210 mm	100
PSG134	150 mm	100	PSG151	240 mm	100
PSG135	185 mm	100	PSG152	270 mm	100
PSG136	210 mm	100	PSG153	320 mm	100
PSG137	240 mm	100	PSG154	385 mm	100
PSG138	270 mm	100	PSG155	450 mm	100
PSG139	320 mm	100	PSG156	500 mm	100
PSG140	385 mm	100			
PSG141	450 mm	100			
PSG142	500 mm	100			



Filter characteristics FC21R

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC21R	75	0.17	10	35	Average

Filters FC150R



- 1 | Fast filtering speed.
- 2 | 140 g/m² crepe paper.
- 3 | For filtration of charged liquids..

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSG066	25 mm	100	PSG080	90 mm	100
PSG067	40 mm	100	PSG081	110 mm	100
PSG068	55 mm	100	PSG082	125 mm	100
PSG069	70 mm	100	PSG083	135 mm	100
PSG070	90 mm	100	PSG084	150 mm	100
PSG071	110 mm	100	PSG085	185 mm	100
PSG072	125 mm	100	PSG086	210 mm	100
PSG073	135 mm	100	PSG087	240 mm	100
PSG074	150 mm	100	PSG088	270 mm	100
PSG075	185 mm	100	PSG089	320 mm	100
PSG076	210 mm	100	PSG090	385 mm	100
PSG077	240 mm	100	PSG091	450 mm	100
PSG078	270 mm	100	PSG092	500 mm	100
PSG079	320 mm	100			
PSG157	385 mm	100			
PSG158	450 mm	100			
PSG159	500 mm	100			



Filter characteristics FC150R

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC150R	140	0.65	8	-	Average



PSG - Qualitative, fast

Filters FC25R



- 1| Fast filtering speed.
- 2| Smooth paper.
- 3| Suitable for retaining high volume precipitates.

Flat

Ref.	Ø	Pack
PSG093	25 mm	100
PSG094	40 mm	100
PSG095	55 mm	100
PSG096	70 mm	100
PSG097	90 mm	100
PSG098	110 mm	100
PSG099	125 mm	100
PSG100	135 mm	100
PSG101	150 mm	100
PSG102	185 mm	100
PSG103	210 mm	100
PSG104	240 mm	100
PSG105	270 mm	100
PSG106	320 mm	100
PSG107	385 mm	100
PSG108	450 mm	100
PSG109	500 mm	100

Folded

Ref.	Ø	Pack
PSG110	70 mm	100
PSG111	90 mm	100
PSG112	110 mm	100
PSG113	125 mm	100
PSG114	135 mm	100
PSG115	150 mm	100
PSG116	185 mm	100
PSG117	210 mm	100
PSG118	240 mm	100
PSG119	270 mm	100
PSG120	320 mm	100
PSG121	385 mm	100
PSG122	450 mm	100
PSG123	500 mm	100

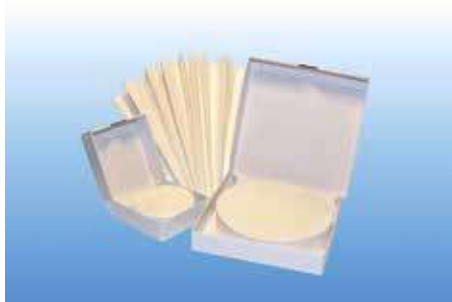
Filter characteristics FC25R

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC25R	77	0.15	8	35	Average



PSH - Qualitative, very fast

Filters FC75R



- 1| Very fast filtration speed.
- 2| Very resistant crepe paper.
- 3| For all types of very fast filtration.

Flat

Ref.	Ø	Pack
PSH028	25 mm	100
PSH001	40 mm	100
PSH002	55 mm	100
PSH003	70 mm	100
PSH004	90 mm	100
PSH005	110 mm	100
PSH006	125 mm	100
PSH007	135 mm	100
PSH008	150 mm	100
PSH009	185 mm	100
PSH010	210 mm	100
PSH011	240 mm	100
PSH012	270 mm	100
PSH013	320 mm	100
PSH029	385 mm	100
PSH030	450 mm	100
PSH031	500 mm	100

Folded

Ref.	Ø	Pack
PSH014	70 mm	100
PSH015	90 mm	100
PSH016	110 mm	100
PSH017	125 mm	100
PSH018	135 mm	100
PSH019	150 mm	100
PSH020	185 mm	100
PSH021	210 mm	100
PSH022	240 mm	100
PSH023	270 mm	100
PSH024	320 mm	100
PSH025	385 mm	100
PSH026	450 mm	100
PSH027	500 mm	100

Filter characteristics FC75R

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
FC75R	60	0.12	15	25	Good



▶ PSK - Quantitative, slow

▶ Filters SCLO



- 1| Slow filtering speed.
- 2| Dense texture.
- 3| Suitable for the retention of fine precipitates.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSK001	12 mm	100	PSK014	70 mm	100
PSK002	22 mm	100	PSK015	90 mm	100
PSK003	40 mm	100	PSK016	110 mm	100
PSK004	55 mm	100	PSK017	125 mm	100
PSK005	70 mm	100	PSK018	135 mm	100
PSK006	90 mm	100	PSK019	150 mm	100
PSK007	110 mm	100	PSK020	185 mm	100
PSK008	125 mm	100	PSK021	210 mm	100
PSK009	135 mm	100	PSK022	240 mm	100
PSK010	150 mm	100			
PSK011	185 mm	100			
PSK012	210 mm	100			
PSK013	240 mm	100			



Filter characteristics SCLO

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCLO	80	0.2	3	100	Average

▶ PSL - Quantitative, medium

▶ Filters SCSG



- 1| Average filtration rate.
- 2| Medium texture.
- 3| Fat-free, so it is used for the determination of fat in the food industry.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSL001	12 mm	100	PSL014	70 mm	100
PSL002	22 mm	100	PSL015	90 mm	100
PSL003	40 mm	100	PSL016	110 mm	100
PSL004	55 mm	100	PSL017	125 mm	100
PSL005	70 mm	100	PSL018	135 mm	100
PSL006	90 mm	100	PSL019	150 mm	100
PSL007	110 mm	100	PSL020	185 mm	100
PSL008	125 mm	100	PSL021	210 mm	100
PSL009	135 mm	100	PSL022	240 mm	100
PSL010	150 mm	100			
PSL011	185 mm	100			
PSL012	210 mm	100			
PSL013	240 mm	100			

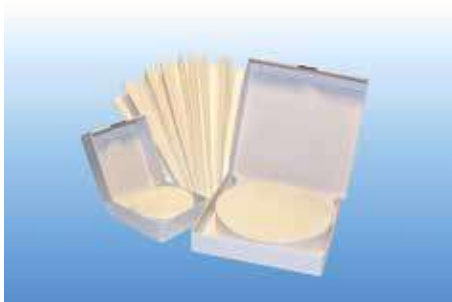


Filter characteristics SCSG

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCSG	80	0.16	6	40	Average

▶ PSL - Quantitative, medium

▶ Filters SCMO



- 1| Average filtration rate.
- 2| Medium texture.
- 3| For all types of gravimetric analysis.

Flat

Ref.	Ø	Pack
PSL023	12 mm	100
PSL024	22 mm	100
PSL025	40 mm	100
PSL026	55 mm	100
PSL027	70 mm	100
PSL028	90 mm	100
PSL029	110 mm	100
PSL030	125 mm	100
PSL031	135 mm	100
PSL032	150 mm	100
PSL033	185 mm	100
PSL034	210 mm	100
PSL035	240 mm	100

Folded

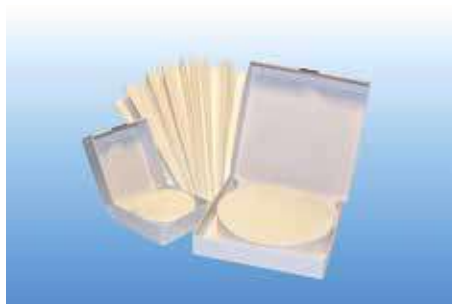
Ref.	Ø	Pack
PSL036	70 mm	100
PSL037	90 mm	100
PSL038	110 mm	100
PSL039	125 mm	100
PSL040	135 mm	100
PSL041	150 mm	100
PSL042	185 mm	100
PSL043	210 mm	100
PSL044	240 mm	100

Filter characteristics SCMO

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCMO	80	0.16	6	40	Average

▶ PSM - Quantitative, fast

▶ Filters SCRO



- 1| Fast filtering speed.
- 2| Lax texture.
- 3| Used in metallurgical laboratories

Flat

Ref.	Ø	Pack
PSM001	12 mm	100
PSM002	22 mm	100
PSM003	40 mm	100
PSM004	55 mm	100
PSM005	70 mm	100
PSM006	90 mm	100
PSM007	110 mm	100
PSM008	125 mm	100
PSM009	135 mm	100
PSM010	150 mm	100
PSM011	185 mm	100
PSM012	210 mm	100
PSM013	240 mm	100

Folded

Ref.	Ø	Pack
PSM014	70 mm	100
PSM015	90 mm	100
PSM016	110 mm	100
PSM017	125 mm	100
PSM018	135 mm	100
PSM019	150 mm	100
PSM020	185 mm	100
PSM021	210 mm	100
PSM022	240 mm	100

Filter characteristics SCRO

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCRO	80	0.16	10	25	Acceptable



PSN - Quantitative, very fast

Filters SCTR



- 1| Very fast filtration speed.
- 2| Lax texture.
- 3| Suitable for the retention of coarse precipitates such as metal hydrides.

Flat			Folded		
Ref.	Ø	Pack	Ref.	Ø	Pack
PSN001	12 mm	100	PSN014	70 mm	100
PSN002	22 mm	100	PSN015	90 mm	100
PSN003	40 mm	100	PSN016	110 mm	100
PSN004	55 mm	100	PSN017	125 mm	100
PSN005	70 mm	100	PSN018	135 mm	100
PSN006	90 mm	100	PSN019	150 mm	100
PSN007	110 mm	100	PSN020	185 mm	100
PSN008	125 mm	100	PSN021	210 mm	100
PSN009	135 mm	100	PSN022	240 mm	100
PSN010	150 mm	100			
PSN011	185 mm	100			
PSN012	210 mm	100			
PSN013	240 mm	100			



Filter characteristics SCTR

Type	Weight (g/m ²)	Thickness (mm)	Retention (µm)	Filtration speed (s)	Wet resistance
SCTR	80	0.13	15	12	Acceptable

PSP - Glass fiber

Filters FV341



- 1| Employed in air pollution control

Code	Ø	Pack
PSP043	20 mm	100
PSP044	21 mm	100
PSP045	24 mm	100
PSP046	25 mm	100
PSP047	40 mm	100
PSP048	45 mm	100
PSP049	47 mm	100
PSP050	55 mm	100
PSP051	60 mm	100
PSP052	70 mm	100
PSP053	90 mm	100
PSP054	110 mm	100
PSP055	125 mm	100
PSP056	130 mm	100
PSP057	140 mm	100
PSP058	150 mm	100
PSP059	160 mm	100
PSP060	185 mm	100
PSP061	200 mm	100
PSP062	210 mm	100
PSP063	240 mm	100



Filter characteristics FV341

Type	Efficiency	Weight (g/m ²)	Thickness mm	Retention (µm)	Filtration speed (s)	Wet resistance
FV341	95	50	0.30	2	8	Good

▶ PSR - Membrane filters

▶ Gridded membranes



- 1 | Sterilized by gamma radiation.
- 2 | Presented in individual bags.
- 3 | Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR001	47 mm	0.45 μm	50

▶ Gridded membranes



- 1 | They have a grid engraved on the surface that allows for a colony count.
- 2 | Non-sterile, autoclavable
- 3 | Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR013	13 mm	0.22 μm	100
PSR014	13 mm	0.45 μm	100
PSR015	13 mm	0.80 μm	100
PSR016	25 mm	0.22 μm	100
PSR017	25 mm	0.45 μm	100
PSR018	25 mm	0.80 μm	100
PSR019	47 mm	0.22 μm	25
PSR020	47 mm,	0.45 μm	25
PSR021	47 mm	0.80 μm	25

▶ Membrane filters



- 1 | Cellulose acetate and nitrate

Code	Diameter	Pore	Pack
PSR003	13 mm	0.22 μm	200
PSR004	13 mm	0.45 μm	200
PSR005	13 mm	0.80 μm	200
PSR006	25 mm	0.22 μm	200
PSR007	25 mm	0.45 μm	200
PSR008	25 mm	0.80 μm	200
PSR009	47 mm	0.22 μm	50
PSR010	47 mm	0.45 μm	50
PSR011	47 mm	0.80 μm	50
PSR012	142 mm	0.80 μm	50

▶ Nylon



Code	Diameter	Pore	Pack
PSR022	25 mm	0,20 μm	100
PSR023	25 mm	0,45 μm	100
PSR024	47 mm	0,20 μm	100
PSR025	47 mm	0,45 μm	100



▶ PSR - Membrane filters

▶ Cellulose acetate



Code	Diameter	Pore	Pack
PSR026	25 mm	0,20 μm	100
PSR027	25 mm	0,45 μm	100
PSR028	47 mm	0,20 μm	100
PSR029	47 mm	0,45 μm	100



▶ Nitrate BQN sterile



Code	Diameter	Pore	Type	Pack
PSR033	47 mm	0,20 μm	White Grid Black	100
PSR032	47 mm	0,45 μm	White Grid Black	100
PSR030	47 mm	0,20 μm	Black Grid White	100
PSR031	47 mm	0,45 μm	Black Grid White	100



▶ Nitrocellulose



Code	Diameter	Pore	Pack
PSR034	25 mm	0,20 μm	100
PSR035	25 mm	0,45 μm	100
PSR036	47 mm	0,20 μm	100
PSR037	47 mm	0,45 μm	100



▶ Polyethersulfone



Code	Diameter	Pore	Pack
PSR038	25 mm	0,20 μm	100
PSR039	25 mm	0,45 μm	100
PSR040	47 mm	0,20 μm	100
PSR041	47 mm	0,45 μm	100



▶ Teflon



Code	Diameter	Pore	Pack
PSR042	25 mm	0,20 μm	100
PSR043	25 mm	0,45 μm	100
PSR044	47 mm	0,20 μm	100
PSR045	47 mm	0,45 μm	100



▶ PSR - Membrane filters

▶ Regenerated cellulose



Code	Diameter	Pore	Pack
PSR046	25 mm	0,20 μm	100
PSR047	25 mm	0,45 μm	100
PSR048	47 mm	0,20 μm	100
PSR049	47 mm	0,45 μm	100

Sterile Grid

Material	Ø 25 mm		Ø 47 mm	
	0.20 μm	0.45 μm	0.20 μm	0.45 μm
Nitrocellulose	PSR034	PSR035	PSR036	PSR037
Nitrate BQN sterile			PSR033 (BCN) PSR030 (NCB)	PSR032 (BCN) PSR031 (NCB)
Cellulose acetate	PSR026	PSR027	PSR028	PSR029
Regenerated cellulose	PSR046	PSR047	PSR048	PSR049
Nylon	PSR022	PSR023	PSR024	PSR025
Polyethersulfone	PSR038	PSR039	PSR040	PSR041
Teflon	PSR042	PSR043	PSR044	PSR045

▶ PSX - Reams

▶ Reams



Code	Paper type	Weight	Dimensions	Reams of
PSX001	Joseph paper	25 g/m ²	15x15 cm	500 sheets
PSX002	Joseph paper	25 g/m ²	35x50 cm	500 sheets
PSX003	Joseph paper	25 g/m ²	35x50 cm	800 sheets
PSX007	White paper 7 Kg	67 g/m ²	40/42x52 cm	500 sheets
PSX005	White paper 7 Kg	77 g/m ²	52x52 cm	500 sheets
PSX004	Grey paper	60 g/m ²	42x52 cm	500 sheets
PSX006	Qualitative paper	77 g/m ²	58x65 cm	100 sheets

▶ PSZ - Others

▶ Cytocentrifuges



- 1 | They have a grid engraved on the surface that allows for a colony count.
- 2 | Non-sterile, autoclavable

Code	Paper type	Weight
PSZ001	75 x 25	200



PSZ - Others

Antibiotic discs



Code	Paper type	Weight
PSZ002	6	1000 discs
PSZ003	9	1000 discs
PSZ004	12	1000 discs
PSZ005	13	1000 discs



Without nitrogen



Code	Paper type	Weight
PSZ006	120 x 120	200

Phase separation paper



Code	Diameter (mm)	Box of
PSZ007	90 mm	100
PSZ008	110 mm	100
PSZ009	125 mm	100
PSZ010	150 mm	100
PSZ011	185 mm	100
PSZ012	210 mm	100
PSZ013	240 mm	100
PSZ014	270 mm	100

Paper for germination test



Code	Dimensions	Box of
PSZ018	85 x 120 mm	500
PSZ015	100 x 200 mm	500
PSZ016	30 x 200 mm	1000
PSZ017	440 x 680 mm	250
PSZ019	Diameter 85 mm	100



PVB - Cellulose acetate/nitrate

Celulose acetate



1 | Box of 500 unities.

Ø 13 mm

Ø 25 mm

Code	Pore (µm)	Colour	Code	Pore (µm)	Colour
PVB001	0,20	Blue	PVB006	0,20	Blue
PVB002	0,45	Yellow	PVB007	0,45	Yellow
PVB003	0,80	Green	PVB008	0,80	Green
PVB004	1,20	Red	PVB009	1,20	Red
PVB005	5	Brown	PVB010	5	Brown



▶ PVB - Cellulose acetate/nitrate

▶ Cellulose acetate



1 | Box of 500 unities.
Ø 13 mm

Code	Pore (µm)	Colour
PVB001	0,20	Blue
PVB002	0,45	Yellow
PVB003	0,80	Green
PVB004	1,20	Red
PVB005	5	Brown

Ø 25 mm

Code	Pore (µm)	Colour
PVB006	0,20	Blue
PVB007	0,45	Yellow
PVB008	0,80	Green
PVB009	1,20	Red
PVB010	5	Brown

▶ Sterile cellulose acetate



1 | Box of 50 unities.
Ø 13 mm

Code	Pore (µm)	Colour
PVB011	0,20	Blue
PVB012	0,45	Yellow
PVB013	0,80	Green
PVB014	1,20	Red
PVB015	5	Brown

Ø 25 mm

Code	Pore (µm)	Colour
PVB016	0,20	Blue
PVB017	0,45	Yellow
PVB018	0,80	Green
PVB019	1,20	Red
PVB020	5	Brown

▶ Filter syringe cellulose a. PP



1 | Box of 500 unities.
Ø 13 mm

Code	Pore (µm)
PVB021	0,20
PVB022	0,45
PVB023	0,80
PVB024	1,20
PVB025	5

Ø 25 mm

Code	Pore (µm)
PVB026	0,20
PVB027	0,45
PVB028	0,80
PVB029	1,20
PVB030	5

▶ Filter syringe regenerated



1 | Box of 500 unities.
Ø 13 mm

Code	Pore (µm)
PVB031	0,20
PVB032	0,45

Ø 25 mm

Code	Pore (µm)
PVB033	0,20
PVB034	0,45

▶ PVZ - Others

▶ Nylon



1 | Box of 500 unities.

Ø 13 mm

Code	Pore (μm)
PVZ001	0,20
PVZ002	0,45

Ø 25 mm

Code	Pore (μm)
PVZ003	0,20
PVZ004	0,45



▶ Polyethersulfone



1 | Box of 500 unities.

Ø 13 mm

Code	Pore (μm)
PVZ005	0,20
PVZ006	0,45

Ø 25 mm

Code	Pore (μm)
PVZ007	0,20
PVZ008	0,45



▶ Teflon



1 | Box of 500 unities.

Ø 13 mm

Code	Pore (μm)
PVZ009	0,20
PVZ010	0,45

Ø 25 mm

Code	Pore (μm)
PVZ011	0,20
PVZ012	0,45



▶ Glass fiber



1 | Box of 500 unities.

Ø 25 mm

Code	Pore (μm)
PVZ013	0,7
PVZ014	1
PVZ015	1,2
PVZ016	3,1



▶ PXB - Membrane pumps

▶ Membrane pump



- 1 | Oil-free, they do not need water and therefore do not produce any waste water.
- 2 | They have an analog metal pressure gauge.

Code	PXB001	PXB002
Vacuum pressure	638 mm Hg (Torr)/ 0.085 MP 850 mbar	600 mm Hg (Torr)/ 0.08 MP 800 mbar
Flow	10 L/min - 0.6 m3/h	25 L/min - 1.5 m3/h
Consumption	20 W	40 W
Weight	4 Kg	7 Kg
Dimensions	245 x 135 x 245 mm	280 x 140 x 220 mm
Power	220-240v 50hz	220-240v 50hz

▶ Chemvak



Code	PXB005	
Vacío (máx.)	13 mbar	
Speed	0 mmHg	25 L/min
	100 mmHg	22 L/min
	200 mmHg	20 L/min
	300 mmHg	12 L/min
	400 mmHg	7.5 L/min
550 mmHg	5 L/min	
Motor speed	1450 rpm	
Weight	7 Kg	

▶ Digital vacuum regulator



- 1 | Indicates internal glass set pressure in mm Hg (torr).
- 2 | Modes of regulation:

- Meter: adjusts the pressure inside the glass set of the equipment to the selected value.
- Off: isolates the vacuum pump from the glass set.
- Full vacuum: maximum vacuum pressure.

Code	Model
PXB006	DV380

▶ Recirculating chiller Julabo



Code	PXB007	
Model	F250	
Temperature range	-10°C à +40°C	
Temperature stability	+/- 0.5°C	
Temperature display	LED	
Capacity pump flow	15 L / min.	
Capacity pump pressure flow	0.35 bar	
Cooling capacity	20°C	0.25 KW
	10°C	0.22 KW
	0°C	0.21 KW
	-10°C	0.18 KW
	-20°C	0.09 KW
Filling volume	1.7 - 2.6 L	
Dimensions [H x L x P cm]	52 x 42 x 24 cm	
Weight [Kg]	27 Kg	

▶ PXB - Membrane pumps

▶ Vacuum regulator/moisture trap for pump PXB005

- 1 | With pressure gauge and pressure regulating valve.

Code	Model
PXB008	F250



▶ Membrane vacuum pump "Vacum-Sel"



- 1 | Small footprint, bench top.
2 | Quiet and vibration free.
3 | Maximum working temperature: 40 °C.

Code	PXB501
Pump rate	1.08 l/min
Vacuum limit	-0.6 bar ≈ 440 mm Hg
Dimensions	19x14x19 cm
Power	35 W
Weight	3 Kg



▶ Membrane vacuum and pressure pump "Vacum-Pres"



- 1 | Small footprint, bench top. Quiet and vibration free. Maximum working temperature: 40 °C.

Code	PXB502
Pump rate	1.08 l/min
Vacuum limit	-0.6 bar=440 mm Hg
Pressure	
Pressure rate/min	1.3 rate/min
Max pressure	1.2 bar
Dimensions	19x14x19 cm
Power	35 W
Weight	3 Kg



▶ Membrane vacuum MV 50 and MV 100



- 1 | Built in aluminium.
2 | Polyfluoroprene membrane, corrosion resistant and long lasting.

Code	PXB503	PXB504
Vacuum flow	1.08 m ³ /h	3.60 m ³ /h
Vacuum pressure	200 mbar	
Pression	2 bar	2,75 bar
Dimensions	23,5x16x21 cm	23,5x16x30 cm
Power	160 W	
Voltage	220 V/50 Hz	
Weight	8 Kg	9 Kg



▶ PXB - Membrane pumps

▶ Membrane vacuum N-86



COMECTA

- 1 | The 2-head models are built with two-phase linear membranes.
- 2 | Approximate rate of leakage: 6×10^{-3} mbar x L/s.
- 3 | Equipped with thermal switch and fuse.

Code	PXB505
Vacuum flow	5,5 l/min - 0,33 m ³ /h
Vacuum limit	160 mbar
Pressure	2,5 bar
Interior tube for connection	4 mm
Number of rotors	1
Rotors materials	PPS
Protection degree	IP-20
Operating temperature	5 a 40°C
Dimensions	14x9x17 cm
Power	0,63A /65 W
Voltage	220 V/50 Hz
Weight	1,9 Kg

▶ Membrane vacuum N-022



COMECTA

- 1 | The 2-head models are built with two-phase linear membranes.
- 2 | Approximate rate of leakage: 6×10^{-3} mbar x L/s.
- 3 | Equipped with thermal switch and fuse

Code	PXB506
Vacuum flow	13 l/min - 0,78 m ³ /h
Vacuum limit	160 mbar
Pressure	4 bar
Interior tube for connection	6 mm
Number of rotors	1
Rotors materials	Aluminium
Protection degree	IP-20
Operating temperature	5 a 40°C
Dimensiones	19x15x20 cm
Power	0,7A /100 W
Voltage	220 V/50 Hz
Weight	4 Kg

▶ Membrane vacuum N-816



COMECTA

- 1 | The 2-head models are built with two-phase linear membranes.
- 2 | Approximate rate of leakage: 6×10^{-3} mbar x L/s.
- 3 | Equipped with thermal switch and fuse

Code	PXB507
Vacuum flow	16 l/min - 0,96 m ³ /h
Vacuum limit	160 mbar
Pressure	0,5 bar
Interior tube for connection	6 mm
Number of rotors	1
Rotors materials	PPS
Protection degree	IP-20
Operating temperature	5 a 40°C
Dimensiones	14x9x17 cm
Power	0,7A /120 W
Voltage	220 V/50 Hz
Weight	3,95 Kg



▶ PXG - Palet pumps

▶ Vacuum pump

COMECTA

- 1 | Asbestos veins and internal joints. Aspiration connection 16 mm Ø
- 2 | Analogue vacuum gauge. High oil volume and forced

Code	PXG501	PXG502
Pump rate	3,6 m ³ /h	3,6 m ³ /h
Vacuum limit	0,1 mbar	0,00 mbar
R.P.M.	1400	
Dimensiones	23x27x12 cm	37x35x17 cm
Power	120 W	180 W
Weight	7,6 Kg	11 Kg



▶ PXL - Water jet pumps

▶ Trompa de agua, de vidrio

ENDO
glassware

- 1 | Minimum water pressure 4 kg/cm². Approximate vacuum of 17 mm Hg.

Code	Lenght	Ø superior	Ø olive
PXL001	320 mm	18 mm	10 mm



▶ Non-return valve

Kartell

- 1 | Made of polypropylene with internal Dutral disc.
- 2 | Prevents water recirculation if pressure decreases.
- 3 | Maximum pressure 2 bar (atm) and minimum pressure 0.07 bar (atm).

Code	Ø ext. (Nominal)	Ø ext. (Valle)
PXL002	8/9/10 mm	7.8/10.0 mm
PXL003	12/13/15 mm	9.5/12.5 mm



▶ Water jet pump, plastics

Kartell

- 1 | Made of polypropylene. With non-return valve.
- 2 | Removable for cleaning and autoclaving.
- 3 | External water pipe diameter 11.85 mm. External diameter of empty tube 9 mm.

Code	Description	mm Hg	bar
PXL004	Water jet pump	191.5	9.804
PXL005	Connections for PXL004		



▶ Hand vacuum pump

Kartell

- 1 | Made of polystyrene, shockproof. Manual operation.
- 2 | Valve to restore atmospheric pressure.
- 3 | Vacuum pressure 625 mm Hg. Tube internal diameter 6 mm.

Code	Description	Vol. per action
PXL006	Without gauge	15 mL
PXL007	With gauge	15 mL





▶ PXL - Water jet pumps

▶ Water-jet pump, PP



- 1 | For generation of a vacuum and to siphon off liquids and vapours
- 2 | Pump fluid: Water
- 3 | Length of the unit: approx. 210 mm

Code	Description
PXL505	Water-jet pump
PXL506	Reducing adapter R3/4 inch to R3/8 inch
PXL507	Reducing adapter R3/4 inch to M 22×1, Perlator thread

▶ Water jet vacuum pumps



Code	Material	Pessure	Pump rate	Aspiration
PXL508	Metal	2 Kg	5 l/min	1 l/min
PXL509	Metal	2 Kg	5 l/min	0.5 l/min



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QBB - Models, anatomy

▶ Sense organs - Eye

**Nahita**

- 1 | Detachable eyeball model.
- 2 | Represented parts: scleral-corneal (cornea and sclera), uveal (iris and choroid) and retinal layers, lens, anterior and posterior eye chambers, optic nerve and eye muscles.
- 3 | Supplied with base.

Code	Parts	Magnifications	Dimensions
QBB001	6	6x	15x15x25 cm
QBB016*	5	6x	16x16x20 cm

*Hasta fin de existencias

▶ Sense organs - Ear

**Nahita**

- 1 | Representation of the outer, middle and inner ear.
- 2 | Parts: pinna and auditory canal, tympanic membrane, chain of ossicles, Eustachian tube, cochlea and semicircular canals as well as the auditory nerve
- 3 | Removable parts according to model.
- 4 | Supplied with base.
- 5 | Made of PVC.

Code	Parts	Magnifications	Dimensions
QBB002	4	3x	15x36x20 cm
QBB003	3	1.5x	12x17x12 cm

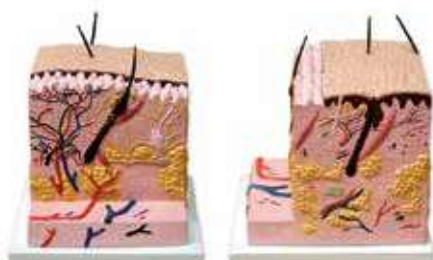
▶ Sense organs - Nasal cavity

**Nahita**

- 1 | Corresponding to the upper left half of the face.
- 2 | Represented the frontal, sphenoidal and maxillary sinuses, the nasal septum and cartilage, the mucosa and olfactory bulb, as well as the upper, middle and lower turbinates.
- 3 | Shows the blood supply and nerve endings of the nasal, olfactory mucosa and palate.
- 4 | Supplied with base.
- 5 | Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB004	2	3x	15x28x33 cm

▶ Sense organs - Skin section

**Nahita**

- 1 | Three-dimensional section of thin human skin
- 2 | Representation of the epidermis, dermis and hypodermis
- 3 | Observed structures: hair follicles, sebaceous and sweat glands, sensory receptors, nerves, blood and lymph vessels.
- 4 | Supplied with base.
- 5 | Made of PVC.

Code	Parts	Magnifications	Dimensions
QBB029	1	60x	17x17x18 cm



▶ QBB - Models, anatomy

▶ Skeleton and vertebral column - Vertebrae and pelvis

Nahita

- 1| It shows the morphology and disposition of the cervical, thoracic, lumbar and sacral vertebrae.
- 2| Includes the representation of the intervertebral discs and also the pelvis.
- 3| Supplied with support.
- 4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB006	1	1x	92x34x15 cm



▶ Skeleton and vertebral column - Flexible vertebral column

Nahita

- 1| Spine with occipital plate and pelvis.
- 2| Representation of vertebral arteries and a herniated disc.
- 3| Aluminum support included.
- 4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB007	1	1x	92x34x15 cm



▶ Skeleton and vertebral column - Mini skeleton

Nahita

- 1| Tabletop skeleton mounted on support.
- 2| Removable cranial vault and mobile jaw.
- 3| Supplied with support.
- 4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB010	1	0.25x	45 cm



▶ Skeleton and vertebral column - Human skeleton

Nahita

- 1| Mobile lower jaw with 3 removable teeth and detachable skull
- 2| Vertebral nerves, vertebral arteries and lumbar disc herniation.
- 3| Support with 5 legs provided with wheels.
- 4| Includes poster.
- 5| Made of PVC.

Code	Description	Magnifications
QBB011	Human skeleton	1x
QBB012	Human skeleton with muscles	1x



QBB012_Pelvis



QBB012_Ribs



QBB012_Knee





QBB - Models, anatomy



▶ Skeleton and vertebral column - Cranium and jaw



- 1 | Representation of the skull and facial skeleton
- 2 | Removable cranial vault.
- 3 | Articulated lower jaw with 3 removable teeth.
- 4 | Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB014	2	1x	22x15x17 cm

▶ Skeleton and vertebral column - Body with muscles



- 1 | Over 400 numerically identified structures of muscles and internal organs.
- 2 | A total of 31 detachable parts.
- 3 | Highly stable base support.
- 4 | Complete explanatory legend.
- 5 | Made of PVC

Code	Parts	Magnifications	Dimensions
QBB013	32	0.75x	80x33x23 cm

QBB013_Muslo



QBB013_Espalda



QBB012_Cabeza y cuello



▶ Head and torso - Dual-sex human torso, open back



- 1 | It shows the digestive, respiratory, urinary, reproductive and nervous systems.
- 2 | Shows the organs that make up the head, neck, chest cavity (trachea, lungs, heart, esophagus), male and female pelvic cavity, as well as the abdominal cavity (liver, stomach, intestine, pancreas).
- 3 | With an open back to show the spine
- 4 | Mounted on base.
- 5 | Made of PVC.

Code	Parts	Magnifications
QBB041	27	1x



▶ QBB - Models, anatomy

▶ Head and torso - Human mini torso with head

- 1 | Human male mini-torso.
- 2 | Detachable parts: head, brain, lung lobes, stomach, heart, liver, intestinal tract and male genital system.
- 3 | Supplied with base.

Code	Parts	Height
QBB015	13	42 cm



▶ Head and torso - Head and neck

- 1 | Representation of the skull and facial skeleton.
- 2 | Removable cranial vault.
- 3 | Articulated lower jaw with 3 removable teeth. Made of PVC

Code	Parts	Magnifications
QBB026	4	1x



▶ Nervous system - Spinal cord

- 1 | With representation of the grey substance (anterior and posterior horns, grey commissure and appendageal duct) and the white substance (anterior, lateral and posterior cords, anterior commissure, ventral and dorsal grooves).
- 2 | Includes two vertebrae and shows the motor and sensory roots.
- 3 | Supplied with base. Made of PVC.

Code	Parts	Magnifications
QBB024	1	2x



▶ Nervous system - Spinal cord, muscle and skin

- 1 | It includes the spinal cord (gray and white matter), a section of skin with its receptor nerve ending and the corresponding muscle with its motor nerve ending.
- 2 | Mounted on a board.
- 3 | Made of PVC

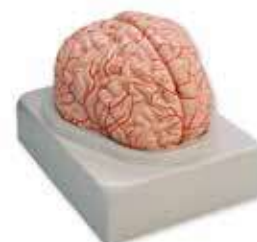
Code	Parts	Dimensions
QBB025	1	50x36x6 cm



▶ Nervous system - Brain

- 1 | Divided into two brain hemispheres.
- 2 | Model GBB027 subdivided to show the different lobes, brain stem and cerebellum. Supplied with base.
- 3 | Made of PVC.

Code	Parts	Magnifications
QBB027	9	1x
QBB028	2	1x





QBB - Models, anatomy

▶ Urinary system - Kidney, glomerulus and nephron

**Nahita**

- 1 | Longitudinal section of the kidney with its functional unit, nephron and blood vessels, and the renal corpuscle.
- 2 | Mounted on a table.
- 3 | Made of PVC.

Code	Parts	Magnifications
QBB030	1	3x/100x/650x

▶ Urinary system - Renal corpuscle

**Nahita**

- 1 | Part of the nephron responsible for the filtration of the plasma.
- 2 | Includes the basic structures that constitute it, the Bowman's capsule and the renal globe.
- 3 | Mounted on a table.
- 4 | Made of PVC .

Code	Parts	Magnifications
QBB017	1	700x

▶ Urinary system - Urinary system

**Nahita**

- 1 | Representation of the human urinary system.
- 2 | Includes the maculine and female anatomies and constituent organs.
- 3 | Mounted on a table.
- 4 | Made of PVC .

Code	Parts	Magnifications
QBB018	1	1x

▶ Urinary system - Urinary system

**Nahita**

- 1 | Reproduction of the male and female urinary system.
- 2 | With 5 detachable pieces corresponding to the kidney and the genital organs. The latter are insertable and comprise the bladder with the prostate and the bladder with the womb and the ovaries respectively.
- 3 | The model shows the structures of the retroperitoneal cavity, pelvis with bones and muscles, the inferior vena cava, the aorta with its branches, the superior urinary tract, kidney with adrenal gland, ureter, bladder, etc.
- 4 | Made of PVC .

Code	Parts	Magnifications
QBB019	6	1x



▶ QBB - Models, anatomy

▶ Respiratory system - Respiratory system

Nahita

- 1| Represented are the entire larynx, trachea and lungs.
- 2| Shows the trachea, bronchi and bronchioles and their terminal structures called alveoli.
- 3| Numerous detachable parts including the heart
- 4| Made of PVC .

Code	Parts	Magnifications
QBB008	7	1x



▶ Respiratory system - Larynx

Nahita

- 1| Structure that links the pharynx to the trachea
- 2| It contains the vocal cords, formed by the elastic folds of its walls.
- 3| Shows the protruding part on the front of the neck, commonly known as the "nut".
- 4| Made of PVC .

Code	Parts	Magnifications
QBB022	4	2.5x



▶ Genitalia and pregnancy - Placenta

Nahita

- 1| Section of placenta comprising the umbilical cord.
- 2| It reproduces in detail its internal structure, with a high vascularization, the umbilical vessels, the maternal vessels, the villi and the placental septum.
- 3| Made of PVC.

Code	Parts	Magnifications
QBB036	1	1x



▶ Genitalia and pregnancy - Embryo development

Nahita

- 1| Represented 8 stages of embryonic development from the fourth week to the sixth month of pregnancy.
- 2| They show the individual and twin fetus in the various normal, transverse and breech positions.
- 3| Mounted on a table.
- 4| Made of PVC.

Code	Magnifications
QBB037	1x





QBB - Models, anatomy

▶ Genitalia and pregnancy - Pregnancy pelvis

**Nahita**

- 1 | It shows the female pelvis at the 40th week of pregnancy and the fetus in its usual pre-birth position.
- 2 | Fetus detachable for examination.
- 3 | Made of PVC.

Code	Parts	Magnifications
QBB038	2	1x

▶ Genitalia and pregnancy - Male genital apparatus

**Nahita**

- 1 | Vertical section of the male genital system.
- 2 | Shows the penis, the testicles lodged in the scrotum, the vas deferens, and the prostate.
- 3 | Includes representation of the bladder and rectal colon.
- 4 | With vertical rotating base.
- 5 | Made of PVC.

Code	Parts	Magnifications
QBB020	2	1x

▶ Genitalia and pregnancy - Female genital apparatus

**Nahita**

- 1 | Vertical section of the female genital system.
- 2 | Shows the vagina, uterus, ovaries and fallopian tubes, bladder and rectal colon.
- 3 | With vertical rotating base.
- 4 | Made of PVC.

Code	Parts	Magnifications
QBB021	2	1x

▶ Dental models - Mouth cavity

**Nahita**

- 1 | Ideal to show the correct cleaning and protection of the teeth.
- 2 | Representation of tongue, teeth, gums, upper and lower jaw and palate.
- 3 | Supplied with base.
- 4 | Made of PVC .

Code	Parts	Magnifications
QBB040	2	2x



▶ QBB - Models, anatomy

▶ Dental models - Canine and molar

Nahita

- 1| Canine and molar with double root.
- 2| Detachable both in two parts to show the longitudinal section of the crown and root.
- 3| Supplied with base.
- 4| Made of PVC .

Code	Parts	Magnifications
QBB031	4	10x



▶ Dental models - Upper incisor

Nahita

- 1| With crown cross section and root longitudinal section.
- 2| Supplied with base.
- 3| Made of PVC

Code	Parts	Magnifications	Dimensions
QBB032	2	8x	24x11x11 cm



▶ Dental models - Upper premolar

Nahita

- 1| With double roots and cavities.
- 2| Removable piece to show the longitudinal and transversal section of the crown.
- 3| Supplied with base.
- 4| Made of PVC

Code	Parts	Magnifications	Dimensions
QBB033	2	8x	27x10x12 cm



▶ Dental models - Half lower mandible

Nahita

- 1| Half right with permanent teeth and several cavities.
- 2| A movable part that allows to show the irrigation and dental roots.
- 3| Supplied with base.
- 4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB034	2	1x	7x10x2 cm



▶ Dental models - Upper molar, 3 roots

Nahita

- 1| With triple roots and cavities.
- 2| Removable to show the longitudinal section of the crown and root.
- 3| Supplied with base.
- 4| Made of PVC .

Code	Parts	Magnifications	Dimensions
QBB035	2	6x	24x12x12 cm





QBB - Models, anatomy

▶ Other organs - Heart

**Nahita**

- 1 | Represented are arteries, capillary blood vessels, venules, veins, atria and ventricles.
- 2 | Removable in 3 parts: superior vena cava, aorta and pulmonary arteries, and heart.
- 3 | Made of PVC .

Code	Parts	Magnifications
QBB005	3	3x

▶ Other organs - Stomach

**Nahita**

- 1 | Removable in two halves.
- 2 | Representation of the stomach wall, lower part of the esophagus near and upper part of the duodenum and blood supply.
- 3 | Made of PVC .

Code	Parts	Magnifications
QBB023	2	2x

▶ Adult torso CPR manikin

**Nahita**

- 1 | Adult Cardio-Pulmonary Resuscitation Model.
- 2 | Allows the application of artificial respiration and thoracic compression.
- 3 | With visual and audible warnings of the correct application of chest compression.
- 4 | Kit of accessories included: mouth/nose unit, disposable airway (5), hygienic applications (C/50), work surface and storage cover.
- 5 | Made of PVC.

Code	Dimensions
QBB039	80x30x40 cm



QBG - Botany

▶ Plant cell

**Nahita**

- 1 | Longitudinal section showing the internal structure of the plant cell
- 2 | The nucleus and the most representative organelles (vacuoles, chloroplasts, ER and mitochondria) are distinguished.
- 3 | It shows the external morphology of union between adjacent cells through the cell wall and their primary pores of intermembrane connection (plasmodesm).
- 4 | Made of PVC .

Code	Parts	Magnifications
QBG004	1	3000x



QBG - Botanic

▶ Dicotyledon stem

- 1| Cross and longitudinal section of the stem.
- 2| Shows the vascular bundles (xylem, phloem, procambium), the cortex and parenchyma (medullary and interphasicular) as well as the outer epidermis.
- 3| Made of PVC .



Code	Parts	Magnifications
QBG001	1	125x

▶ Longitudinal section of root

- 1| Longitudinal section of root showing its internal and external morphology.
- 2| It represents the zones of division (caliptra and apical meristem), elongation and differentiation (radical hair).
- 3| Allows to distinguish from outside in: epidermis, cortical parenchyma, vascular bundle, xylem and phloem.
- 4| Made of PVC .



Code	Parts	Magnifications
QBG002	1	100x

▶ Peach blossom

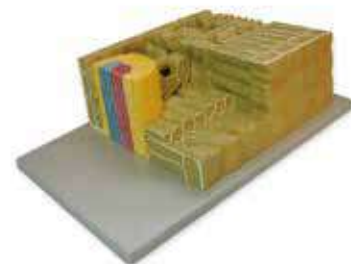
- 1| Parts of a flower represented: stem, receptacle, calyx (sepals), corolla (petals), stamens (anther and filament) and pistil (stigma, style and ovary).
- 2| Supplied with base.
- 3| Made of PVC



Code	Parts	Magnifications
QBG003	1	20x

▶ Leaf section

- 1| Cross and longitudinal section of sheet.
- 2| Numbered representation of parts (upper and lower epidermis, palisade and lagoon parenchyma, vascular bundle and stoma).
- 3| Supplied with base.
- 4| Made of PVC .



Code	Parts	Magnifications
QBG005	1	700x

▶ Vascular bundles

- 1| Cross and longitudinal section of the vascular beam.
- 2| Numbered representation of parts (parenchyma, xylem, phloem, cambium, fiber, etc).
- 3| Supplied with base.
- 4| Made of PVC .



Code	Parts	Magnifications
QBG006	1	550x



QBG - Botanic

Fertilization of angiosperm

**Nahita**

- 1 | It shows in detail the male (androcyte) and female (gynoecium) organs of an angiosperm flower.
- 2 | The stamens, containing the pollen, and the carpel (stigma, style, ovary and eggs) are distinguished.
- 3 | Made of PVC .

Code	Parts	Magnifications
QBG007	2	300x



QBN - Zoology

Animal cell

**Nahita**

- 1 | Longitudinal section of the animal eukaryotic cell.
- 2 | Includes the nucleus and its genetic content (DNA/RNA)
- 3 | Shows the organelles and elements arranged in the cytoplasmic space (smooth and rough endoplasmic reticulum, Golgi apparatus, mitochondria, vesicles, lysosomes, ribosomes, centrioles, etc).
- 4 | Made of PVC.

Code	Parts	Magnifications
QBN001	1	10000x

Ameba

**Nahita**

- 1 | Longitudinal section of the unicellular eukaryotic organism called *Amoeba proteus*
- 2 | It allows to distinguish parts of its morphology such as the plasma membrane, the contractile and digestive vacuoles, and its pseudopodia characteristics used to feed and move in the environment.
- 3 | Made of PVC.

Code	Parts	Magnifications
QBN002	1	10000x

Mitosis

**Nahita**

- 1 | It illustrates the four phases of nuclear division of a eukaryotic cell: prophase, me-phase, anaphase and telophase.
- 2 | Mounted on a table.
- 3 | Made of PVC.

Code	Parts	Magnifications
QBN003	1	10000x



▶ QBN - Zoology

Nahita

▶ Earthworm dissection

- 1| Longitudinal section of the anterior region of the earthworm (*Lumbricus terrestris*)
- 2| Cross section in relief.
- 3| Removable digestive tube.
- 4| Supplied with base.
- 5| Made of PVC .

Code	Parts	Magnifications
QBN004	2	15x



▶ Locust dissection

- 1| Longitudinal section of the locust (*Locusta migratoria*).
- 2| With the following removable parts: legs, antenna, mouthpiece, wings and digestive tract.
- 3| Supplied with base.
- 4| Made of PVC .

Code	Parts	Magnifications
QBN005	6	10x



▶ Dog skeleton

- 1| Assembled on a rectangular black plastic base.
- 2| It has two metal uprights that attach to the skeleton at the thoracic vertebrae and lumbar vertebrae respectively.
- 3| The tail (caudal vertebrae) is removable as is the head.
- 4| Movable jaw.
- 5| Made of PVC .

Code	Parts	Magnifications
QBN006	1	60x20x26 cm



▶ Cat skeleton

- 1| Assembled on a rectangular black plastic base.
- 2| It has two metal uprights that attach to the skeleton at the thoracic vertebrae and lumbar vertebrae respectively.
- 3| The tail (caudal vertebrae) is removable as is the head.
- 4| Movable jaw.
- 5| Made of PVC .

Code	Parts	Magnifications
QBN007	1	52x20x26 cm



▶ QBQ - Astronomy

▶ Solar system

Nahita

- 1| Solar system composed of: sun, planets and terrestrial moon.
- 2| Mechanical movement of the planets.
- 3| Illumination of the sun by a battery (not included).

Code	Parts
QBQ001	1





QBR - Molecular kits

CHART 1: 'Number of atoms'

Code	Carbon	Hydrogen	Oxygen	Nitrogen	Sulfur	Phosphorous	Halogens	Metal
QBR003	20	30	6	6	2	2	8	2
QBR004	12	14	22	10	13	7	8	14
QBR005	68	110	40	34	2	6	-	2

CHART 2: 'Number of bonds'

Code	Short (white)	Medium (grey)	Long (grey)	Non visible (grey)	Visible (white)
QBR003	50	41	12	-	-
QBR004	-	50	36	-	-
QBR005	-	-	-	150	10

Organic Chemistry molecular kit, student



- 1 | Composed of a total of 76 pieces of atoms for the representation of simple molecules of organic chemistry.
- 2 | Supplied in a box for storage and a tool for removing bonds.
- 3 | The kit is composed of: Carbon (20 pieces), Hydrogen (30 pieces), Oxygen (6 pieces), Nitrogen (6 pieces), Sulphur (2 pieces), Phosphorus (2 pieces), Halogen (8 pieces), Metal (2 pieces).
- 4 | Links: short (50, white color), medium (41, gray color), long (12, gray color)

Code

QBR003

Organic Chemistry molecular kit, teacher



- 1 | Composed of a total of 100 pieces of atoms for the representation of simple molecules of organic chemistry
- 2 | Supplied in a box for storage and a tool for removing bonds.
- 3 | The kit consists of: Carbon (12 pieces), Hydrogen (14 pieces), Oxygen (22 pieces), Nitrogen (10 pieces), Sulphur (13 pieces), Halogen (8 pieces), Meta (14 pieces).
- 4 | Links: medium (50, grey colour), long (36, grey colour).

Code

QBR004

Biochemistry molecular kit, teacher



- 1 | Composed of a total of 262 pieces of atoms for the representation of biochemical molecules such as amino acids, peptides, polysaccharides, purines, phospholipids, nucleotides, etc.
- 2 | Supplied in a box for preservation and with two tools for removing bonds.
- 3 | The kit is composed of: Carbon (68 pieces), Nitrogen (34 pieces), Metal (2 pieces), Hydrogen (10 pieces), Oxygen (40 pieces), Sulphur (2 pieces), Phosphorus (6 pieces).
- 4 | Links: visible (10 pieces, gray color), not visible (150 pieces), hydrogen links (100 pieces).

Code

QBR005



QGB - Animal histology

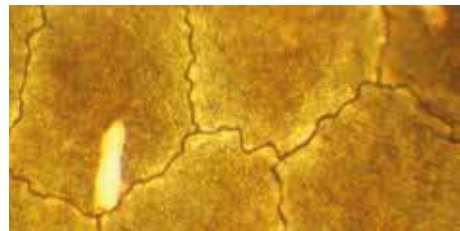
l.s.	Longitudinal Section
c.s.	Cross-Sectional
w.m.	Whole Mount
sec.	Section

Cytologie

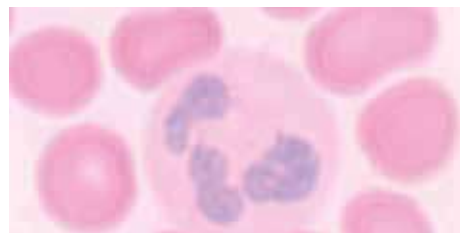


Code	Description
QGB001	Mitosis horse Ascaris eggs, sec.
QGB002	Locusta testicle, sec.
QGB003	Giant chromosomes of salivary gland, w.m.
QGB077	Human chromosomes in blood, male

Basic tissue types

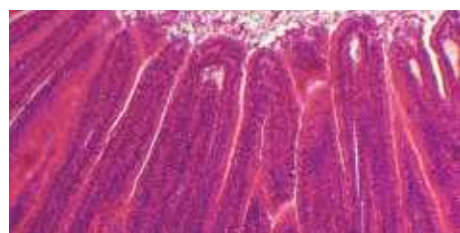
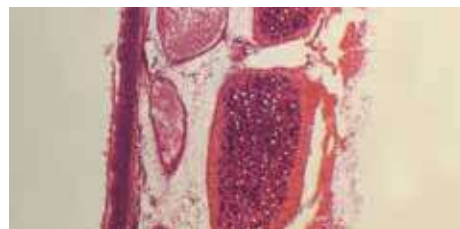
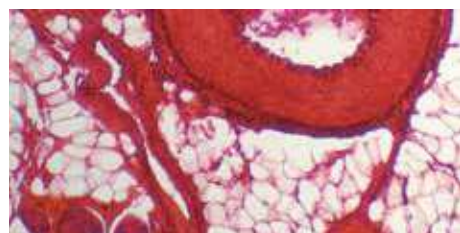


Code	Description
QGB011	Simple flat epithelium, w.m.
QGB012	Stratified flat epithelium, sec.
QGB013	Adipose tissue, sec.
QGB014	Loose connective tissue, w.m.
QGB015	Cartilage, sec.
QGB016	Compact bone, w.m.
QGB017	Human blood smear
QGB018	Frog blood smear
QGB019	Fish blood smear
QGB020	Snake blood smear
QGB021	Smooth muscle, teared, w.m.
QGB022	Skeletal muscle, l.s. and c.s.
QGB023	Cardiac muscle, sec. .
QGB058	Gallus domestica blood smear
QGB059	Tendon, dense connective tissue, l.s.
QGB066	Mouse tail, c.s.
QGB079	Ciliated epithelium, sec.



Organs and systems

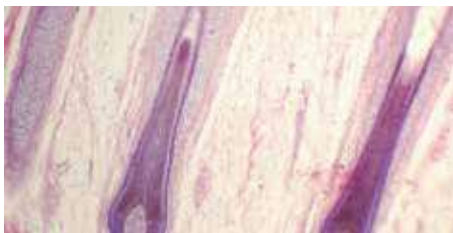
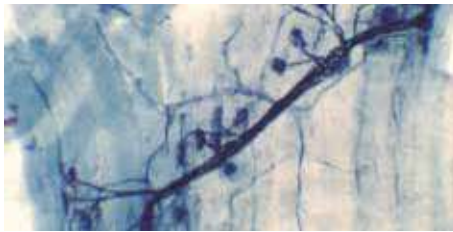
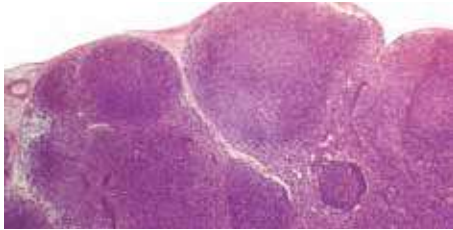
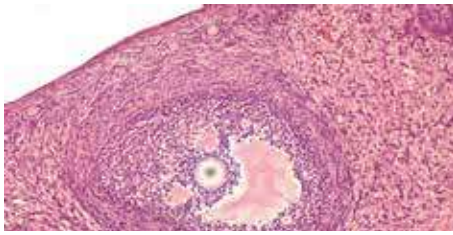
Code	Description
Circulatory system	
QGB046	Artery and vein, c.s.
QGB074	Frog heart, c.s.
QGB075	Arteria de rana, s.t.
QGB076	Frog artery, c.s.
Respiratory system	
QGB043	Lung, sec.
QGB044	Lung, blood irrigation, sec.
QGB045	Smoking lung, human, sec.
QGB063	Trachea, c.s.
QGB064	Trachea, l.s.
Gastrointestinal system	
QGB005	Frog small intestine, c.s.
QGB033	Esophagus, c.s.
QGB034	Parotid gland, sec.
QGB035	Wall of stomach, sec.
QGB036	Small intestine, c.s.
QGB037	Jejunum, sec.
QGB039	Large intestine, c.s.
QGB040	Pancreas, sec.
QGB042	Gall bladder, sec.
QGB061	Pig liver, sec.
QGB062	Rabbit liver, sec.
QGB070	Frog stomach, sec.
QGB071	Frog liver, sec.
QGB073	Frog large intestine, c.s.





QGB - Animal histology

▶ Organs and systems

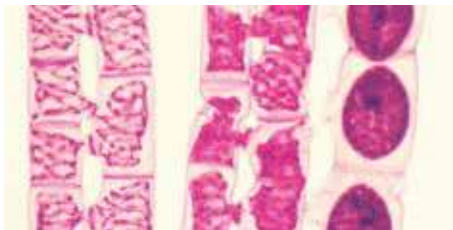


Code	Description
Reproductive system and embryonic development	
QGB006	Frog egg, sec.
QGB007	Two cell stage frog egg, sec.
QGB008	Cleavage stage frog egg, sec.
QGB009	Frog blastula, sec.
QGB010	Frog gastrula, sec.
QGB050	Rabbit ovary, sec.
QGB051	Human sperm smear
QGB052	Fallopian tube, c.s.
QGB053	Mammary gland, active phase, sec.
QGB065	Rabbit testicle, sec.
QGB067	Frog sperm smear
QGB068	Frog testicle, sec.
QGB069	Frog ovary, sec.
Urinary system	
QGB047	Kidney, l.s.
QGB048	Kidney, blood irrigation, sec.
QGB049	Urinary bladder, sec.
QGB072	Frog kidney, l.s.
Immune system	
QGB038	Appendix section
QGB041	Spleen, sec.
QGB054	Lymph node, sec.
Nervous system and sense organs	
QGB004	Frog skin, w.m. .
QGB024	Rabbit spinal cord, c.s.
QGB025	Brain, rabbit, silver staining, sec.
QGB026	Cerebellum, rabbit, silver staining, sec.
QGB027	Cerebellum, rabbit, HE, sec.
QGB028	Motor nerve endings, rabbit, w.m.
QGB029	Motor neuron, w.m.
QGB030	Brain, human, HE, sec.
QGB031	Brain, human, silver staining, sec.
QGB032	Taste buds, rabbit, sec.
QGB055	Eyeball, l.s.
QGB056	Human skin, sweat glands, sec.
QGB057	Human skin, hair follicles, sec.
QGB060	Tongue with filiform papillae, l.s.



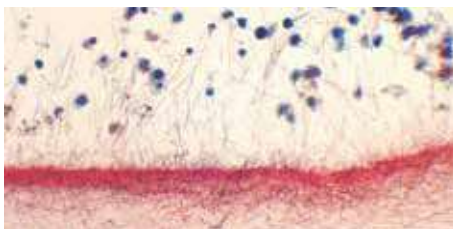
QGF - Plant histology

▶ Alga



Code	Description
QGF010	<i>Chlamydomonas</i> , w.m.
QGF011	<i>Volvox</i> , w.m.
QGF012	<i>Spirogyra</i> conjugation, w.m.
QGF013	<i>Porphyra</i> , w.m.
QGF023	Brown alga leaf, c.s. .
QGF116	<i>Spirogyra</i> vegetative mass, w.m.
QGF125	Blue-green alga, w.m.
QGF129	<i>Oscillatoria</i> , w.m.
QGF130	<i>Euglena</i> , w.m.

▶ Fungi and lichens



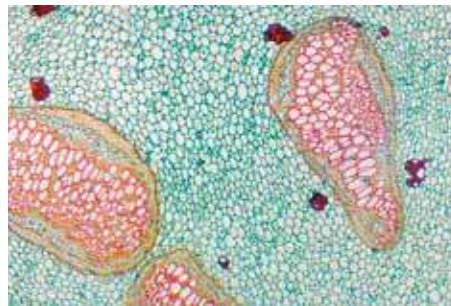
Code	Description
QGF004	Mushroom, sec.
QGF005	<i>Rhizopus nigricans</i> , w.m.
QGF006	<i>Penicillium</i> , w.m.
QGF007	<i>Aspergillus</i> , w.m.
QGF008	Yeast, w.m.
QGF009	Lichen, sec.



QGF - Plant histology

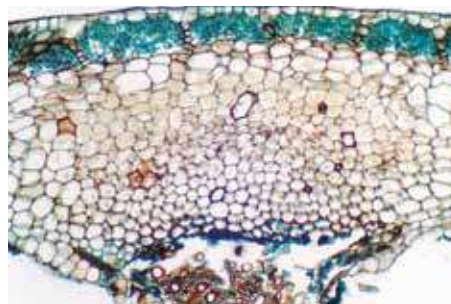
Ferns

Code	Description
QGF024	Fern prothallus w/young sporophyte, w.m.
QGF025	Fern prothallus w/antheridium, c.s.
QGF026	Fern prothallus w/archegonium, c.s.
QGF117	Fern sorus, sec.
QGF118	Fern subterraneous stem, c.s.
QGF128	Fern sporangium, w.m.



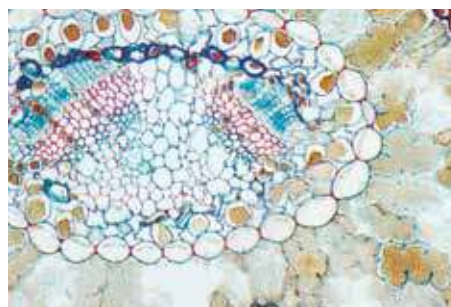
Moss and liverworts

Code	Description
QGF014	Marchantia thallus, c.s.
QGF015	Marchantia sorus, sec.
QGF016	Marchantia antheridium, l.s.
QGF017	Marchantia archegonium, l.s.
QGF018	Moss leaf, w.m.
QGF019	Moss, w.m.
QGF020	Moss protonema, w.m.
QGF021	Moss antheridium, l.s.
QGF022	Arquegonio de musgo, s.l.
QGF122	Moss stem, c.s.



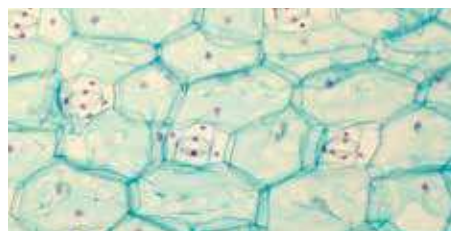
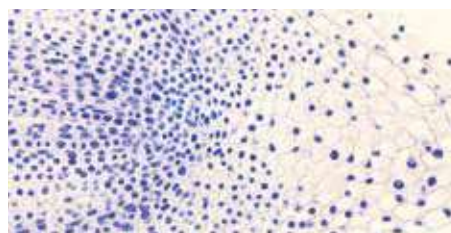
Gynosperms

Code	Description
QGF027	Pine leaf, c.s.
QGF028	Pine 1 year stem, c.s.
QGF029	Pine 10 years stem, s.t.
QGF030	Male pine cone, l.s.
QGF031	Female pine cone, l.s. .
QGF032	Pine pollen, w.m.



Angiosperms - basic structures and tissues

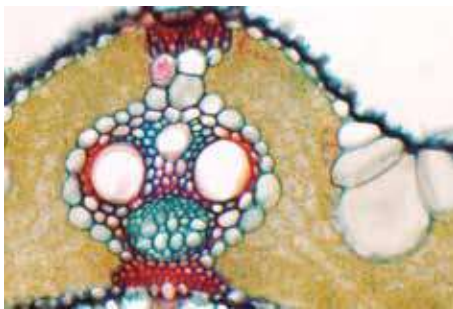
Code	Description
QGF046	Mitosis, onion root tip cells, l.s.
QGF051	Narcissus tazetta root tip, l.s.
QGF065	Stem with collenchyma, c.s.
QGF066	Stem with sclerenchyma, c.s.
QGF067	Stem with lenticels, c.s.
QGF068	Morus alba petiole, abscission layer, l.s.
QGF069	Stem with sieve tubes, l.s.
QGF070	Stem with intercalary meristem, l.s.
QGF071	Syringo stem tip, l.s.
QGF072	Hydrilla verticillata stem tip, l.s.
QGF073	Onion stomata, w.m.
QGF074	Triticum aestivum stomata, w.m.
QGF075	Oryza sativa stomata, w.m. .
QGF076	Vicia faba stomata, s.e.
QGF077	Commelina communis stomata, w.m.
QGF078	Thre types of plant leaves, c.s.
QGF080	Nerium indicum leaf, sunken stomata, c.s.
QGF086	Osmanthus fragans leaf, stone cells, c.s.
QGF091	Sunken plant leaf, aerenchyma, c.s.
QGF105	Stone cells, pear fruit, sec.
QGF106	Plasmodesmata, endosperm sec.
QGF113	Meiosis, lily anther, c.s.
QGF126	Persimmon pulp cells
QGF127	Sugarcane armpit bud, c.s.
QGF132	Solanum tuberosum tuber, sec.





QGF - Plant histology

▶ Angiosperms - Leaves



Code	Description
QGF079	Ficus leaf, sunken stomata, c.s.
QGF081	Ligustrum lucidum leaf, c.s.
QGF082	Jasminum nudiflorum leaf, c.s.
QGF083	Lily leaf, c.s.
QGF084	Coffee leaf, c.s.
QGF085	Camellia sinensis leaf, c.s.
QGF087	Triticum aestivum leaf, c.s.
QGF088	Oryza sativa leaf, c.s.
QGF089	Corn leaf, c.s.
QGF090	Narzissus tazetta leaf, c.s.
QGF092	Fig leaf, c.s.
QGF093	Privet leaf, c.s.
QGF094	Sugarcane leaf, c.s.
QGF111	Mono and dicotyledon leaves, c.s.
QGF003*	Nicotina tabacum leaf c.s.

*Hasta fin de existencias

Nahita

▶ Angiosperms - Stems

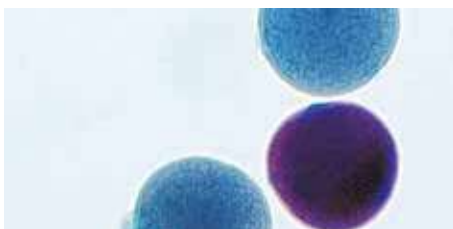
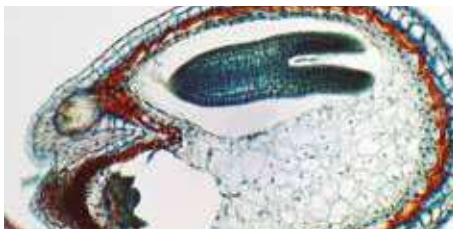


Code	Description
QGF052	Helianthus young stem, l.s.
QGF053	Sambucus williamsii stem, c.s.
QGF054	Hibiscus syriacus stem, c.s.
QGF055*	Tilia 1 year stem, c.s.
QGF056	Arachis hypogaea young stem, c.s.
QGF057	Arachis hypogaea old stem, c.s.
QGF058	Arachis hypogaea old stem, c.s.
QGF059	Corn stem, c.s.
QGF060	Corn stem, l.s.
QGF061	Medicago sativa stem, c.s.
QGF062	Orange stem, c.s.
QGF063	Nerium indicum stem, c.s.
QGF064	Pelargonium hortorum stem, c.s.
QGF110	Mono and dicotyledon stems, c.s.
QGF112	Tilia 1, 2 and 3 year stem, c.s.
QGF115	Herbage and woody stem, c.s.
QGF119	Helianthus stem, c.s.
QGF120	Gossypium young stem, c.s.
QGF121	Gossypium old stem, c.s.
QGF123	Sugarcane stem, c.s.
QGF001*	Ricinus comunis old stem c.s.
QGF002*	Pyrus s.p. stem, c.s.

*Hasta fin de existencias

Nahita

▶ Angiosperms - Reproductive organs and seeds



Code	Description
QGF095	Lily pollen, w.m.
QGF096	Lily anther, c.s.
QGF097	Lily ovary, c.s.
QGF098	Narzissus tazetta ovary, c.s.
QGF099	Helianthus ovary, c.l.
QGF100	Capsella young embryo, sec.
QGF101	Capsella middle embryo, sec.
QGF102	Capsella mature embryo, sec.
QGF103	Triticum aestivum seed, l.s.
QGF104	Corn seed, l.s.
QGF107	Capsicum pericarp, sec.
QGF108	Luffa cylindrica pollen, w.m.
QGF114	Lilium embryo sac development .
QGF133	Germinated pollen, w.m.

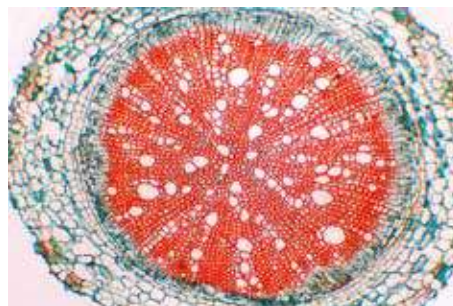
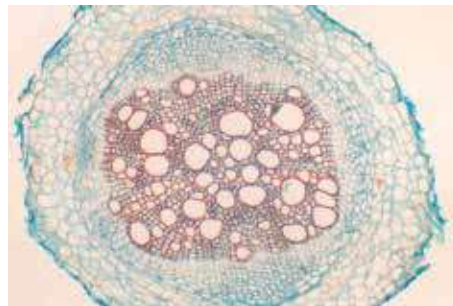
Nahita



QGF - Plant histology

Angiosperms - Roots

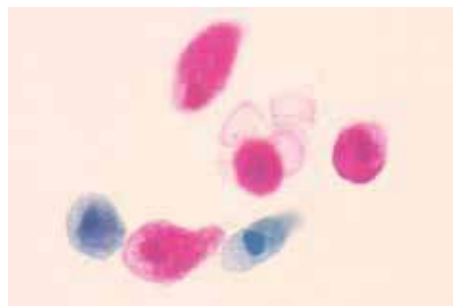
Code	Description
QGF033	Cuscuta chinensis parasitic root, c.s.
QGF034	Helianthus old root, c.s. .
QGF035	Ranunculus japonicus root, c.s.
QGF036	Vicia faba young root, c.t.
QGF037	Vicia faba old root, s.t.
QGF038	Vicia faba lateral root, c.s.
QGF039	Ipomoea batatas root, c.s.
QGF040	Iris root, c.s.
QGF041	Gossypium root, c.s.
QGF042	Glycine max root, c.s.
QGF043	Glycine max root nodule, c.s.
QGF044	Raphanus sativus fleshy root, c.s.
QGF045	Daucus carota root, c.s.
QGF047	Onion root, c.s.
QGF048	Corn root, c.s.
QGF049	Oryza sativa root, c.s.
QGF050	Earthpea root, c.s.
QGF109	Mono and dicotyledon roots, c.s.
QGF124	Sugarcane root, c.s.
QGF131	Allium tuberosum root, c.s.



QGJ - Zoology

Bateria and protozoa

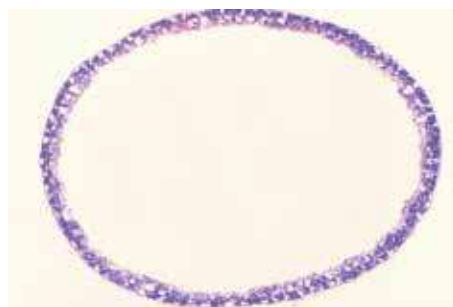
Code	Description
QGJ001	Paramecium, w.m.
QGJ002	Unicellular animal, w.m.
QGJ046	Three types of bacteria smear



Cnidaria

Code	Description
QGJ003	Hydra w.m.
QGJ004*	Hydra spermary, c.s.
QGJ005*	Hydra ovary, c.s.
QGJ009	Hydra, l.s.
QGJ047	Hydra, c.s.

*Hasta fin de existencias



Aschelminthes, molluscs an annelids

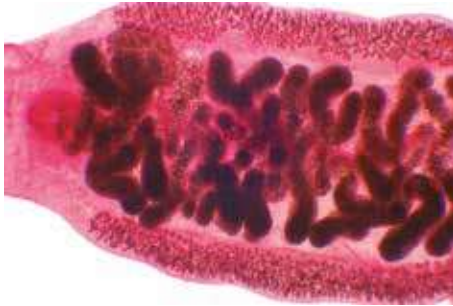
Code	Description
QGJ013	Ascaris male, c.s.
QGJ014	Ascaris female, c.s.
QGJ015	Ascaris male and female, c.s.
QGJ052	Mussel gills, w.m.
QGJ016	Hirudo niponia, w.m.
QGJ017	Earthworm, c.s.





QGJ - Zoology

▶ Plathelminthes



Code	Description
QGJ010	<i>Turbellaria</i> , w.m.
QGJ011	<i>Turbellaria</i> , c.s.
QGJ012*	Bladder worm, w.m.
QGJ028	<i>Schistosoma miracidium</i> , w.m.
QGJ029	<i>Schistosoma</i> male, w.m.
QGJ030	<i>Schistosoma</i> female, w.m.
QGJ031	<i>Schistosoma</i> male and female conjugation, w.m.
QGJ048	<i>Turbellaria</i> , digestive tube, w.m.
QGJ049*	<i>Clonorchis sinensis</i> , w.m.
QGJ064	<i>Schistosoma</i> eggs, w.m.
QGJ065	<i>Schistosoma</i> cercaria, w.m.

*Hasta fin de existencias



▶ Arthropods

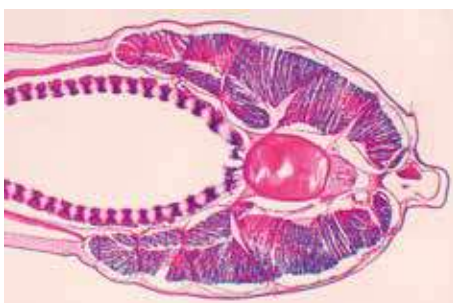


Code	Description
QGJ006	<i>Daphnia</i> , w.m.
QGJ007	<i>Siphonaptera</i> , w.m.
QGJ008	<i>Aphis</i> , w.m.
QGJ018	Male mosquito mouth parts, w.m.
QGJ019	Female mosquito mouth parts, w.m.
QGJ020	House fly mouth parts, w.m.
QGJ021	Honeybee mouth parts, w.m.
QGJ022	Butterfly mouth parts, w.m.
QGJ023	Grasshopper mouth parts, w.m.
QGJ024	Periplaneta mouth parts, w.m.
QGJ025	Insect compound eye, sec.
QGJ033*	Caterpillar
QGJ034	Spider, w.m.
QGJ035	Mosquito larva, w.m.
QGJ036	House fly, w.m.
QGJ037	Female mosquito, w.m.
QGJ038	Male mosquito, w.m.
QGJ039	Fruit fly, w.m.
QGJ040	Ant, w.m.
QGJ041	Insect digging leg, w.m.
QGJ042	Insect walking leg, w.m.
QGJ043	Insect swimming leg, w.m.
QGJ044	Insect leaping leg, w.m.
QGJ045	Insect pollinating leg, w.m.
QGJ050	<i>Tetranychus telarius</i> , w.m.
QGJ051	Insect compound eye, w.m.
QGJ054	House fly wing, w.m.
QGJ055	Butterfly wing, w.m.
QGJ056	Honeybee wing, w.m.
QGJ057	House fly leg, w.m.
QGJ058	Honeybee front and back leg, w.m.
QGJ059	House fly antenna, w.m.
QGJ060	White ant antenna, w.m.
QGJ061	Mosquito antenna, w.m.
QGJ062	Chafer antenna, w.m.
QGJ063	Honeybee antenna, w.m.

*Hasta fin de existencias



▶ Chordates and vertebrates



Code	Description
QGJ026*	<i>Branchiostoma belcheri</i> , w.m.
QGJ027	<i>Branchiostoma belcheri</i> , pharynx, c.s.
QGJ032	Bird feather, w.m.
QGJ053	Fish scale, w.m.

*Hasta fin de existencias



▶ QGM - Minerals

▶ Minerals



Code	Description
QGM001	Schiste
QGM002	Micaschiste
QGM003	Granite anatexis
QGM004	Gneiss
QGM005	Basalt
QGM006	Gabbro
QGM007	Andesite
QGM008	Rhyolite

▶ QGR - Slide sets

▶ Histology and organography



1| Aimed at the study and recognition of the main animal and plant tissues, and their integration and specialization for the constitution of different organs.

2| Supplied in a plastic box to ensure the protection and durability of the preparations.

1_ Animal histology

Code	Set	N° slides
QGR001	Animal histology	24

1| Includes preparations of blood, epithelium, connective tissue, cartilage, bone, muscle and nerve tissue. Composed of:

QGB017 - Human blood smear	QGB073 - Frog large intestine, c.s.
QGB018 - Frog blood smear	QGB063 - Trachea, c.s.
QGB019 - Fish blood smear	QGB015 - Cartilage, sec.
QGB020 - Snake blood smear	QGB016 - Compact bone, w.m.
QGB058 - Gallus domestica blood smear	QGB066 - Mouse tail, c.s
QGB014 - Loose connective tissue, w.m.	QGB047 - Kidney, l.s.
QGB059 - Tendon, dense connective tissue, l.s.	QGB021 - Smooth muscle, teared, w.m.
QGB057 - Human skin, hair follicles, sec.	QGB042 - Gall bladder, sec.
QGB056 - Human skin, sweat glands, sec.	QGB022 - Skeletal muscle, l.s. and c.s.
QGB012 - Stratified flat epithelium, sec.	QGB023 - Cardiac muscle, sec.
QGB011 - Simple flat epithelium, w.m.	QGB024 - Rabbit spinal cord, c.s.
QGB036 - Small intestine, c.s.	QGB028 - Motor nerve endings, rabbit, w.m.

2_ Plant histology

Code	Set	N° slides
QGR002	Plant histology	24

1| Includes meristem preparations, parenchyma, cholenchyma, sclerenchyma, xylem, phloem and protective tissue. Composed of:

QGF046 - Mitosis, onion root tip cells, l.s.	QGF081 - Ligustrum lucidum leaf, c.s.
QGF105 - Stone cells, pear fruit, sec.	QGF076 - Vicia faba stomata, s.e.
QGF051 - Narcissus tazetta root tip, l.s.	QGF132 - Solanum tuberosum tuber, sec.
QGF086 - Osmanthus fragans leaf, stone cells, c.s.	QGF077 - Commelina communis stomata, w.m.
QGF071 - Syringo stem tip, l.s.	QGF091 - Sunken plant leaf, aerenchyma, c.s.
QGF082 - Jasminum nudiflorum leaf, c.s.	QGF088 - Oryza sativa leaf, c.s.
QGF072 - Hydrilla verticillata stem tip, l.s.	QGF065 - Stem with collenchyma, c.s.
QGF069 - Stem with sieve tubes, l.s.	QGF087 - Triticum aestivum leaf, c.s.
QGF127 - Sugarcane armpit bud, c.s.	QGF053 - Sambucus williamsii stem, c.s.
QGF074 - Triticum aestivum stomata, w.m.	QGF080 - Nerium indicum leaf, sunken stomata, c.s.
QGF070 - Stem with intercalary meristem, l.s.	QGF066 - Stem with sclerenchyma, c.s.
QGF075 - Stomates d'Oryza sativa, s.e.	QGF092 - Fig leaf, c.s.



QGR - Slide sets

Histology and organography



3_ Animal organography

Code	Set	N° slides
QGR003	Animal organography	25

1 | Includes preparations of skin, digestive, excretory, respiratory and reproductive systems, circulatory, lymphoid and nervous systems and sense organs of mammals. Composed of:

QGB046 - Artery and vein, c.s.	QGB063 - Trachea, c.s.
QGB033 - Esophagus, c.s.	QGB064 - Trachea, l.s.
QGB035 - Wall of stomach, sec.	QGB043 - Lung, sec.
QGB037 - Jejunum, sec.	QGB044 - Lung, blood irrigation, sec.
QGB039 - Large intestine, c.s.	QGB050 - Rabbit ovary, sec.
QGB040 - Pancreas, sec.	QGB065 - Rabbit testicle, sec.
QGB061 - Pig liver, sec.	QGB024 - Rabbit spinal cord, c.s.
QGB042 - Gall bladder, sec.	QGB057 - Human skin, hair follicles, sec.
QGB041 - Spleen, sec.	QGB056 - Human skin, sweat glands, sec.
QGB054 - Lymph node, sec.	QGB060 - Tongue with filiform papillae, l.s.
QGB047 - Kidney, l.s.	QGB032 - Taste buds, rabbit, sec.
QGB048 - Kidney, blood irrigation, sec.	QGB055 - Eyeball, l.s.
QGB049 - Urinary bladder, sec.	

4_ Plant organography

Code	Set	N° slides
QGR004	Plant organography	25

1 | Includes preparations of stems, roots, leaves and reproductive organs of gymnosperms and angiosperms (monocots and dicotyledons). Composed of:

QGF028 - Pine 1 year stem, c.s.	QGF042 - Glycine max root, c.s.
QGF029 - Pine 10 years stem, c.s.	QGF038 - Vicia faba lateral root, c.s.
QGF112 - Tilia 1, 2 and 3 year stem, c.s.	QGF049 - Oryza sativa root, c.s.
QGF110 - Mono and dicotyledon stems, c.s.	QGF043 - Glycine max root nodule, c.s.
QGF115 - Herbage and woody stem, c.s.	QGF027 - Pine leaf, c.s.
QGF056 - Arachis hypogaea young stem, c.s.	QGF111 - Mono and dicotyledon leaves, c.s.
QGF057 - Arachis hypogaea old stem, c.s.	QGF078 - Three types of plant leaves, c.s.
QGF067 - Stem with lenticels, c.s.	QGF068 - Morus alba petiole, abscission layer, l.s.
QGF109 - Mono and dicotyledon roots, c.s.	QGF097 - Lily ovary, c.s.
QGF033 - Cuscuta chinensis parasitic root, c.s.	QGF098 - Narcissus tazetta ovary, c.s.
QGF039 - Ipomoea batatas root, c.s.	QGF099 - Helianthus ovary, c.l.
QGF045 - Daucus carota root, c.s.	QGF096 - Lily anther, c.s.
QGF035 - Ranunculus japonicus root, c.s.	

Reproduction and genetics



1 | Aimed at illustrating the processes of both animal and plant reproduction; they allow a journey from the apparently simple division of a cell through the mechanism of mitosis, to the complex embryonic development of plants and higher animals.

2 | Supplied in a plastic box to ensure the protection and durability of the preparations.

1_ Genetics

Code	Set	N° slides
QGR006	Genetics	5

1 | Includes human and polygenic chromosome preparations, animal mitosis, plant mitosis and meiosis. Composed of:

QGB077 - Human chromosomes in blood, male	QGF113 - Meiosis, lily anther, c.s.
QGB001 - Mitosis horse Ascaris eggs, sec.	QGF046 - Mitosis, onion root tip cells, l.s.
QGB003 - Giant chromosomes of salivary gland, w.m.	



▶ QGR - Slide sets

▶ Reproduction and genetics



2_ Animal and plant rep.

Code	Set	Nº slides
QGR005	Animal and plant rep.	24

1 | Includes preparations of the gametogenesis process and early stages of amphibian embryonic development, sexual reproduction of gymnosperms and angiosperms Composed of:

QGB051 - Human sperm smear	QGF095 - Lily pollen, w.m
QGB067 - Frog sperm smear	QGF108 - Luffa cylindrica pollen, w.m.
QGB068 - Frog testicle, sec.	QGF133 - Germinated pollen, w.m.
QGB069 - Frog ovary, sec.	QGF114 - Liliium embryo sac development
QGB006 - Frog egg, sec.	QGF100 - Capsella young embryo, sec.
QGB007 - Two cell stage frog egg, sec.	QGF101 - Capsella middle embryo, sec.
QGB008 - Cleavage stage frog egg, sec.	QGF102 - Capsella mature embryo, sec.
QGB009 - Frog blastula, sec.	QGF103 - Triticum aestivum seed, l.s. .
QGB010 - Frog gastrula, sec.	QGF104 - Corn seed, l.s.
QGF032 - Pine pollen, w.m.	QGF126 - Persimmon pulp cells
QGF030 - Male pine cone, l.s.	QGF107 - Capsicum pericarp, sec.
QGF031 - Female pine cone, l.s.	

▶ Zoology

1 | Aimed at studying the different evolutionary groups that make up the animal kingdom, with special emphasis on the animal group with the greatest diversification and specialization: insects.

2 | Supplied in a plastic box to ensure the protection and durability of the preparations.

1_ Insects anatomy

Code	Set	Nº slides
QGR007	Insects anatomy	24

1 | Includes preparations of different types of wings, legs, antennae, mouthparts and eyes of insects. Composed of:

QGJ041 - Insect digging leg, w.m.	QGJ023 - Grasshopper mouth parts, w.m.
QGJ042 - Insect walking leg, w.m.	QGJ024 - Periplaneta mouth parts, w.m.
QGJ043 - Insect swimming leg, w.m.	QGJ059 - House fly antenna, w.m.
QGJ044 - Insect leaping leg, w.m.	QGJ060 - White ant antenna, w.m.
QGJ045 - Insect pollinating leg, w.m.	QGJ061 - Mosquito antenna, w.m.
QGJ057 - House fly leg, w.m.	QGJ062 - Chafer antenna, w.m. .
QGJ058 - Honeybee front and back leg, w.m.	QGJ063 - Honeybee antenna, w.m. .
QGJ018 - Male mosquito mouth parts, w.m.	QGJ054 - House fly wing, w.m..
QGJ019 - Female mosquito mouth parts, w.m.	QGJ055 - Butterfly wing, w.m.
QGJ020 - House fly mouth parts, w.m.	QGJ056 - Honeybee wing, w.m.
QGJ021 - Honeybee mouth parts, w.m.	QGJ051 - Insect compound eye, w.m.
QGJ022 - Butterfly mouth parts, w.m.	QGJ025 - Insect compound eye, sec.

2_ Microorganisms

Code	Set	Nº slides
QGR008	Microorganisms	13

1 | Includes preparations with examples of prokaryotes, fungi and animals and single-cell algae. Composed of:

QGJ001 - Paramecium, w.m.	QGF008 - Yeast, w.m.
QGJ002 - Unicellular animal, w.m.	QGF010 - <i>Chlamydomonas</i> , w.m.
QGJ046 - Three types of bacteria smear	QGF130 - <i>Euglena</i> , w.m. .
QGF125 - Blue-green alga, w.m.	QGF011 - <i>Volvox</i> , w.m.
QGF005 - <i>Rhizopus nigricans</i> , m.e.	QGF012 - Spirogyra conjugation, w.m.
QGF006 - <i>Penicillium</i> , w.m.	QGF116 - Spirogyra vegetative mass, w.m.
QGF007 - <i>Aspergillus</i> , w.m.	



QGR - Slide sets

Zooology



3_ Life cycless

Code	Set	N° slides
QGR009	Life cycless	13

1 | Includes preparations of the different phases of the hepatic, moss and fern life cycle. Composed of:

QGF014 - Marchantia thallus, c.s.	QGF015 - Marchantia sorus, sec.
QGF024 - Fern prothallus with young sporophyte, w.m.	QGF117 - Fern sorus, sec.
QGF016 - Marchantia antheridium, l.s.	QGF128 - Fern sporangium, w.m.
QGF017 - Marchantia archegonium, l.s.	QGF025 - Fern prothallus with antheridium, c.s.
QGF019 - Moss, w.m.	QGF026 - Fern prothallus with archegonium, c.s.
QGF020 - Moss protonema, w.m.	QGF118 - Fern subterraneous stem, c.s.
QGF021 - Moss antheridium, l.s.	

4_ Zooology

Code	Set	N° slides
QGR010	Zooology	40

1 | Includes preparations of skin, digestive, excretory, respiratory and reproductive systems, circulatory, lymphoid and nervous systems and sense organs of mammals. Composed of:

QGJ001 - Paramecium, w.m.	QGJ013 - Ascaris male, c.s.
QGJ002 - Unicellular animal, w.m.	QGJ014 - Ascaris female, c.s.
QGJ003 - Hydra w.m.	QGJ015 - Ascaris male and female, c.s.
QGJ066 - Paramecium conjugation, w.m	QGB001 - Mitosis horse Ascaris eggs, sec.
QGJ067 - Paramecium fission, w.m.	QGJ052 - Mussel gills, w.m.
QGJ009 - Hydra, l.s.	QGJ006 - <i>Daphnia</i> , m.e.
QGJ047 - Hydra, c.s.	QGJ007 - <i>Siphonaptera</i> , w.m.
QGJ010 - <i>Turbellaria</i> , w.m.	QGJ008 - <i>Aphis</i> , w.m.
QGJ011 - <i>Turbellaria</i> , c.s.	QGJ050 - <i>Tetranychus telarius</i> , w.m.
QGJ068 - Bombyx mori larva (silkworm), w.m.	QGJ034 - Spider, w.m.
QGJ028 - Miracidio de <i>Schistosoma</i> , m.e.	QGJ035 - Mosquito larva, w.m.
QGJ029 - Schistosoma male, w.m.	QGJ036 - House fly, w.m.
QGJ030 - Schistosoma female, w.m.	QGJ037 - Female mosquito, w.m.
QGJ031 - <i>Schistosoma male anf female conjugation</i> , w.m.	QGJ038 - Male mosquito, w.m.
QGJ048 - <i>Turbellaria, digestive tube</i> , w.m.	QGJ039 - Fruit fly, w.m.
QGJ049 - <i>Clonorchis sinensis</i> , w.m.	QGJ040 - Ant, w.m. .
QGJ064 - Schistosoma eggs, w.m.	QGJ026 - <i>Branchiostoma belcheri</i> , w.m.
QGJ065 - Schistosoma cercaria, w.m	QGJ027 - <i>Branchiostoma belcheri, pharynx</i> , c.s.
QGJ016 - <i>Hirudo niponia</i> , w.m.	QGJ032 - Bird feather, w.m.
QGJ017 - Earthworm, c.s.	QGJ053 - Fish scale, w.m.

5_ Basic education

Code	Set	N° slides
QGR011	Basic education	24

1 | They include preparations grouped into six categories: animals, insects, plants, textile fibres, pollen-spores-seeds and small specimens.

2 | They are intended for use in basic education because of their easy handling and the attractiveness of the preparations.

Animals: Mouse hair, hare hair, dog hair, sheep hair.
 Plants: Stem of *Arachis hypogaea*, ficus leaf, onion skin, *Elaeagnus* scales.
 Insects: Bee belly, bee leg, lobster wing, housefly leg.
 Textile fibres: Coloured threads, handmade paper, fingerprints, cellulose fibres.
 Pollen, spore and seed: Lily pollen, pine pollen, *Callistemon* seed, fern spore.
 Small specimens: Aphid, ant, shrimp eggs, *Daphnia*.

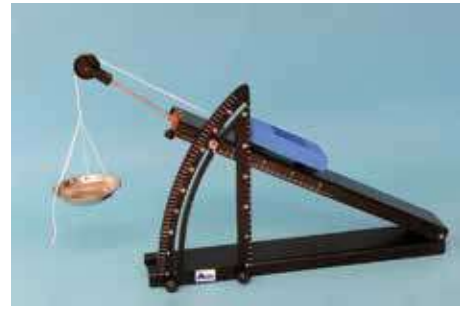


QLB - Mechanics and fluids

▶ Inclined plane

- 1| Instrument designed to study the concepts of movement on an inclined plane and its relationship with friction.
- 2| Built in metal that provides durability and robustness.
- 3| Composed of 2 metal plates joined by a hinge at one end; one of the plates is used as a base and the other as an inclined plane.
- 4| The device is completed with a plastic trolley with hook, a set of weights (1x100 g, 1x50 g, 1x20 g) and a plate with a negligible mass string.

Code	Description
QLB001	Inclined plane



▶ Force plane

- 1| Used to verify the laws of force composition and resolution using vector diagrams of various concurrent forces.
- 2| Composed of a thick circular aluminium table.
- 3| Circular scale graduated from 0 to 360° (divisions every 1° and number every 10°)
- 4| Includes 4 pulleys with clamps, set of ropes, centering bar and 4 sets of weights (1x100 g, 1x10 g, 1x20 g, 1x50 g) with slots and hook (100 g).

Code	Description
QLB002	Force table



▶ Free fall apparatus with digital timer

- 1| The equipment consists of an electromagnet mounted on a plastic casing that allows a metal ball attached to a square section bar to be released.
- 2| The time elapsed between the ball being released and hitting the platform will be shown on the digital counter display in order to calculate the gravity g of free fall.
- 3| The equipment includes a digital counter.

Code	Description
QLB003	Free fall apparatus with digital timer



▶ Communicating vessels

- 1| Composed of 4 glass tubes each with a different diameter section and shape, connected to each other at the base by a horizontal glass tube common to all of them, sealed in a manifold and mounted on a support.

Code	Description
QLB004	Communicating vessels



▶ Pressure syringes

- 1| Composed of a pair of graduated glass syringes with capacities of 50 and 10 cm³ and provide a cross-sectional area ratio of 3:1.
- 2| They are mounted on a metal base and have a platform at the top for the placement of weights; the nozzles of both syringes are co-connected by a 3-position valve.
- 3| Weight set included: 1x200 g, 1x100 g, 1x50 g, 2x20 g and 1x10 g
- 4| Allows for simple Boyle's Law experiments.

Code	Description
QLB005	Pressure syringes





QLB - Mechanics and fluids

Bell jar with hand vacuum pump

**Nahita**

- 1 | Instrument designed to demonstrate the effect of atmospheric pressure
- 2 | Composed of a transparent hood and a manual vacuum pump both made of resistant ABS plastic.
- 3 | The hood is equipped with a pressure gauge and a vacuum relief valve.
- 4 | Note: exposure or contact of the device to organic solvents or vapours or other aggressive chemical reagents is totally forbidden. The device is NOT self-locking.

Code	Description
QLB006	Bell jar with hand vacuum pump

U-tube manometer

**Nahita**

- 1 | With a stopcock located near the end of one of the branches and mounted on a support.
- 2 | The scale has a 50-0-50 graduation with 1 mm divisions.

Code	Description
QLB007	U-tube manometer

Magdeburg hemispheres

**Nahita**

- 1 | The device consists of two hemispheres of about 100 mm in diameter, both with a handle on top. One of them has a plastic key for making the vacuum inside by means of a vacuum pump and a rubber ring inside for its correct sealing.
- 2 | The lightweight plastic construction makes it easy to handle and use.

Code	Description
QLB008	Magdeburg hemispheres



QLD - Waves and sound

Wave from helix

**Nahita**

- 1 | Waves made of steel wire specially designed for the demonstration of wave motion. The Snakey spring has bent ends for greater safety.

Code	Description	∅	Lenght
QLD001	Snakey	19 mm	3 m
QLD002	Slinky	75 mm	10 cm





QLD - Waves and sound

Vibrator generator with accessories

- 1| Especially suitable for producing mechanical oscillations.
- 2| The voltage input is made through 4 mm pins and the output of mechanical oscillations is made through an axis in the upper part.
- 3| A locking system provides security by blocking the movement of the shaft.
- 4| The equipment is supplied complete with Chladni plates and steel strips.

Code	Description
QLD003	Vibrator generator with accessories



Melde's apparatus

- 1| To show the effects of vibrations on a stretched string and investigate the relationship between frequency, voltage and density.
- 2| Composed of a thin metal rod mounted on a clamp formed by a pair of 4 mm terminal pins, so that its free length can be adjusted as desired.

Code	Description
QLD004	Melde's apparatus



Pendulum

- 1| Designed to perform numerous experiments related to pendulum movement.
- 2| The apparatus consists of a metric ruler attached vertically to the rod of a stand. From the upper end of the support a rod from which 3 spheres hang, each one 25 cm in diameter and made of different materials (wood, steel and aluminium).

Code	Description
QLD005	Pendulum



Pair of tuning forks with box

- 1| Composed of a pair of nickel-plated tuning forks of frequency A (426.6), each mounted on top of a soundboard.
- 2| Each tuning fork has a slider in one of the branches through which the frequency can be modified with respect to the nominal one.
- 3| Includes a rubber disc type hammer.

Code	Description
QLD006	Pair of tuning forks with box





QLD - Waves and sound

Set of 8 tuning forks, steel

**Nahita**

- 1| With flat branches and clearly marked frequency.
- 2| Composed of 8 fretboards each with a frequency (Hz) of the diatonic scale: C1-(256), D-(288), E-(320), F-(341.3), G-(384), A-(426.6), B- (480) and C2-(512).
- 3| Supplied with box.

Code	Description
QLD007	Set of 8 tuning forks steel with box



QLG - Light and optics

Newton colour disks

**Nahita**

- 1| Designed to demonstrate that white light is made up of the additive mixture of all the colours in the spectrum.
- 2| Consists of a circular multicoloured disc with sectors of different spectral colours in the right proportion.

Code	Description	Diameter
QLG001	Manual	200 mm
QLG002	With motor	80 mm

Light box and optical set

**Nahita**

- 1| Complete set for a wide range of reflection, refraction and colour mixing experiments.
- 2| The complete set of optics includes: set of 5 acrylic prisms, set of 3 acrylic lenses, set of 3 mirrors, set of 2 plates, set of 8 color filters, set of 8 color plates.

Code	Description
QLG003	Light box and optical set

Optical bench

**Nahita**

- 1| Made of aluminum with a ruler graduated in millimeters. Also equipped with supports for placing various accessories whose height can be adjusted.
- 2| The optical bench is supplied complete with the following accessories: halogen lamp, flat glass, lens holder, black circular lampshade with aperture, diaphragm, frosted glass shade, grid holder, cross-slotted plate, Jolly's photometer, needle holder and receiving shade.

Code	Description
QLG004	Optical bench



QLG - Light and optics

Complete Hartl disk

- 1| Designed to study the different concepts of optics including reflection and refraction through the technique of light ray tracing.
- 2| Composed of a rotating white metallic disc, with a 90°-0-90°-0-90° graduation.
- 3| The equipment is supplied with a laser type light source that allows the projection of 1, 3 or 5 parallel beams for the realization of the different experiments.
- 4| Prisms and mirrors with magnets are also included so that they can be placed on the disc.



Code	Description
QLG005	Complete Hartl disk

Refraction disk

- 1| Metal disc divided into 4 quadrants graduated from (0-90)°.
- 2| It has a semicircular acrylic tank that occupies half of the disc to determine the refractive index of different liquids such as water, oil, etc.
- 3| The whole set is mounted on a metal base with marks from 1-7 to place the light source at the desired level.



Code	Description
QLG006	Refraction disk

Laser ray box, red

- 1| Red laser beam box (wavelength 650 nm) with option of 1, 3 and 5 parallel beams.
- 2| Supplied with power adapter.



Code	Description
QLG007	Laser ray box, red

Hand spectroscope

- 1| Designed for the qualitative examination of the composition of absorption and emission spectra
- 2| Features a collimator, prism and telescope mounted inside a straight tube.
- 3| The end of the eyepiece can be slid along its length to focus the spectrum.
- 4| Supplied in a wooden box.



Code	Description
QLG008	Hand spectroscope

Power supply for spectral tubes

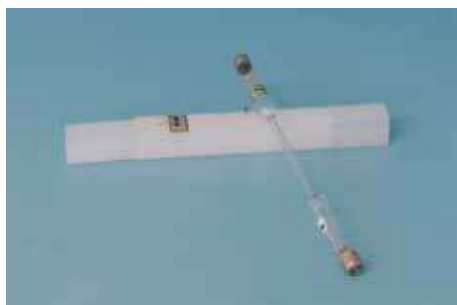
- 1| With On/Off switch and protected plugs for complete safety during use.
- 2| The black colour of the power supply eliminates the effect of ambient light.



Code	Description
QLG009	220-240 V AC, 50 Hz

▶ QLG - Light and optics

▶ Tubos espectrales



Nahita

1 | Each tube is filled with a type of gas or vapour to study the respective emission spectra.

Code	Type of gas	Length
QLG010	Argon	200 mm
QLG011	Helium	200 mm
QLG012	Neon	200 mm
QLG013	Hydrogen	200 mm
QLG014	Nitrogen	200 mm
QLG015	Mercury	200 mm

▶ QLJ - Thermology

▶ Gravesande's ring and ball



Nahita

1 | Instrument to demonstrate the thermal expansion of solids Composed of a ring and a brass ball both mounted on independent handles.

2 | When cold, the 19 mm diameter ball easily passes through the ring but does not pass through it when heated.

Code	Description
QLJ001	Gravesande`s ring and ball

▶ Joule's calorimeter



Nahita

1 | Composed of an internal container of about 300 mL of volume contained in an external container of about 900 mL both made of aluminum and separated by insulating material that minimizes heat loss.

2 | The lid has a rod for stirring and a hole to insert a thermometer.

Code	Description
QLJ003	Joule's calorimeter

▶ Thermal conductivity apparatus star shaped

Nahita



1 | It allows the demonstration of the differences in the thermal conductivity of 5 different metals: brass, copper, aluminium, steel and stainless steel.

2 | Each rod has a well at its end so that a small amount of paraffin can be placed.

3 | Includes an insulating handle.

Code	Description
QLJ002	Thermal conductivity apparatus star shaped



QLJ - Thermology

▶ Calorimeter block

- 1 | To carry out experiments to determine the specific heat capacity of different metals.
- 2 | Each block is cylindrical in shape and has a mass of $1 \text{ Kg} \pm 2\%$. It has 2 holes, a large central one (about 12.5 mm) to hold the resistor and a smaller one (about 7.5 mm) to hold a thermometer or a temperature sensor.

Code	Description
QLJ004	Aluminium
QLJ005	Steel
QLJ006	Copper
QLJ007	Brass



▶ Heating resistance for calorimeter blocks

- 1 | Heating resistance specially designed for use with calorimetric blocks.
- 2 | The heating element is housed in a stainless steel sheath from which two cables for electrical connection start. The heater operates with 12 V, 50 W.

Code	Description
QLJ008	Heating resistance for calorimeter blocks



▶ Boyle's law apparatus

- 1 | It allows to study the Pressure/Volume ratio of a gas at a constant temperature.
- 2 | It consists of a graduated cylinder of (0-300) cm³ made of transparent material placed on a support. At one end the cylinder is closed by a piston and at the other end it has a valve to regulate the air mass contained in the cylinder.
- 3 | The reading of the pressure inside the cylinder is made by means of a needle gauge located next to the valve and graduated in $(0-3.4) \times 10^5 \text{ Pa}$.

Code	Description
QLJ009	Boyle's law apparatus



▶ Gas kinetics theory model

- 1 | Equipment to demonstrate the kinetic theory of gases by explaining molecular motion, the decrease of density with altitude, the increase of pressure/volume ratio with temperature, etc.
- 2 | Composed of a transparent cylindrical tube closed with a lid and with a rubber diaphragm at the base on which a vibratory movement is generated through the connection of the equipment to a low voltage electrical source.
- 3 | Includes a set of metal balls and a cardboard disc.

Code	Description
QLJ010	Gas kinetics theory model



▶ QLL - Magnetism and electrostatics

▶ Magnets



Nahita

1 | Different models of magnets for carrying out experiments on magnetism and visualization of magnetic fields

Code	Shape	Dimensions	Material
QLL001	Rectangular	75x75x10 mm	AINiCo
QLL002	Cylindrical	100x12 mm	AINiCo
QLL003	Ring	36x18x8 mm	Cerámica
QLL004	Horeshoe	75x12x5 mm	Acero cromado

▶ Iron filling, fine

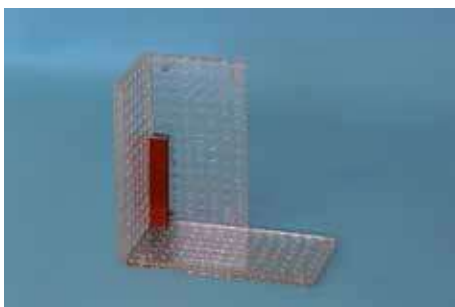


Nahita

1 | For the study of magnetic fields
2 | Supplied in a 500g box.

Code	Description
QLL005	Iron filling, fine

▶ Magnetic field demonstrator, 3D



Nahita

1 | Set of 4 transparent plates of size 155x76x6 mm.
2 | Includes a rectangular magnet.

Code	Description
QLL006	Magnetic field demonstrator, 3D

▶ Magnetic field chamber



Nahita

1 | Composed of a hollow chamber made of transparent acrylic material with a hole in its central part to accommodate the cylindrical magnet.
2 | It also allows the study of magnets of other shapes simply by placing their adjacent poles on either side of the chamber.

Code	Description
QLL007	Magnetic field chamber

▶ Stand with magnet needle



Nahita

1 | Circular base in bakelite with non-magnetic pillar and carbon steel support on which the needle pivots.

Code	Description
QLL011	Stand with magnet needle



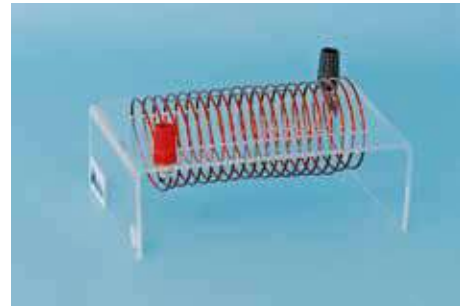
▶ QLL - Magnetism and electrostatics

▶ Magnetic field demonstrators

Nahita

1] For the study and demonstration of magnetic fields associated with the various forms of an electric current conducting wire. Available in 3 models:

1. Straight: copper U-shaped wire mounted vertically on the base. Maximum current of 8 A.
2. Loop: copper wire in the form of a 1-turn loop. Maximum current of 8 A.
3. Coil: Copper coil of about 52x125 mm (diameter x length).



Code	Shape
QLL008	Straight
QLL009	Coil
QLL010	Solenoid

▶ Compass inclinometer

Nahita

- 1] To demonstrate the Earth's magnetic field and illustrate the general rule.
- 2] It consists of an aluminum ring with a double-pointed needle that pivots in the center; the ring is graduated from 0-360°.
- 3] Mounted on an aluminum stand that can be adjusted in height and supported on a plastic base with dimensions of approximately 142x80x40 mm.



Code	Description
QLL012	Compass inclinometer

▶ Laplace's rail

Nahita

- 1] It consists of an acrylic base from which 2 parallel brass bars of about 120 mm in length start.
- 2] To demonstrate the action of a magnetic field on a conductive element with free movement placed on two elements that are also conductive.

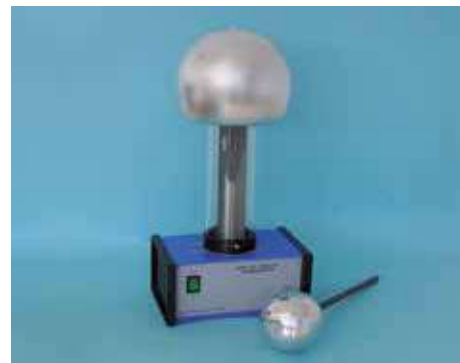


Code	Description
QLL013	Laplace's rail

▶ Van de Graaff generator

Nahita

- 1] Used for electrostatic experiments where a continuous high voltage source is required.
- 2] Aluminum base features plastic insulated sides for safety. An internal motor allows the continuous movement of a rubber belt between 2 pulleys, this produces the transfer of charge from the belt to the metal dome through "combs" charge collectors.
- 3] When the discharge sphere is positioned close enough to the charged dome, the charge is transferred to ground in the form of an electric spark that jumps from the dome to the discharge sphere.



Code	Description
QLL014	Van de Graaff generator
QLL016	Belt for Van de Graaff generator Dimensions: 750x46mm



QLL - Magnetism and electrostatics

Wimshurst electrostatic generator



- 1 | Equipment capable of generating electrostatic potential.
- 2 | Equipped with 2 acrylic plates with aluminum sectors glued radially along the edge. Both plates are parallel to each other and rotate in opposite directions through a system of pulleys and belts; the pulley on one of the plates pre seats a crank.
- 3 | The load can be accumulated in a pair of high capacity Leyden bottles.
- 4 | When the machine starts rotating, the discharge spheres accumulate charge until transfer from one discharge sphere to another takes place in the form of an electric spark.

Code	Description
QLL015	Wimshurst electrostatic generator



QLN - Electricity and electronics

Power supply 1-12 V AC/DC



- 1 | Equipped with overload and short circuit protection.

Code	QLN001
Power supply	220-240 V AC, 50 Hz
Output voltage	AC/DC 1-12 V
Intensity	6 A máx.
Primary protection	Fuse 2 A
Secondary protection	Thermal switch

**Wires QLN005 and QLN006 not included*

Regulated power supply 1-15 V DC



- 1 | Provisto de protección contra sobrecarga y cortocircuito.

Code	QLN002
Power supply	110-220 V \pm 10% AC, 50/60 Hz
Output voltage	0-15 V DC, continuous variable range
Intensity	0-2 A máx., continuous variable range
Displays	2 LED displays for voltage and intensity
Environmental cond. of use	0-40°C, 95% HR

**Wires QLN005 and QLN006 not included*

Power supply for vibrator generator



- 1 | Sine and square wave selection.
- 2 | Internal speaker.

Code	QLN007
Power supply	110-220 V \pm 10% AC, 50/60 Hz
Output voltage	0-5V
Rangos de frecuencia	10-110Hz, 0,1-1,1 KJz, 1-11 KHz, 10-110KHz
Environmental cond. of use	0-40°C, 95% HR



QLN - Electricity and electronics

Electric field apparatus

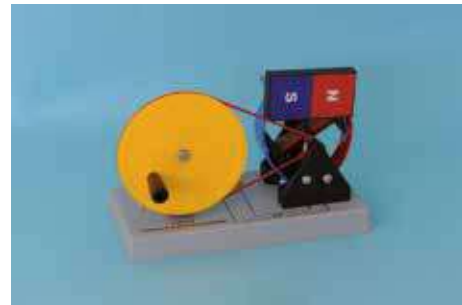
- 1 | For the study of the electric field generated by different electrode configurations.
- 2 | Supplied complete with a circular transparent plastic plate, 2 electrodes with linear shape and 2 electrodes with circular shape (35 and 70 mm diameter respectively).



Code	Description
QLN003	Electric field apparatus

Demonstration dynamo, AC/DC

- 1 | It demonstrates the conversion of mechanical energy into electrical energy and the principle of operation of simple dynamos.
- 2 | The complete device is mounted on a base and is capable of generating AC and DC current simultaneously.



Code	Description
QLN004	Demonstration dynamo, AC/DC

Power cord banana, black

- 1 | 4 mm banana plug wires, 1 m long.



Code	Colour	Lenght
QLN005	Black	1 m
QLN006	Red	1 m

LABORATORY
SUPPLIERS

SERVICES

TRADEMARKS

STOCK

COMPETITIVITY

AUXILAB
+ ROGO
SAMPAIC



ENDO
glassware

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competitive price to satisfy all your needs



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[R]
 PROTECTION
 AND SAFETY





RBB - Coats

▶ Lab-coat, 100% cotton



- 1 | Snap buttons, 3 pockets and lapel collar

Code	For	Size
RBB001	Man	S
RBB002	Man	M
RBB003	Man	L
RBB004	Man	XL
RBB009	Woman	S
RBB010	Woman	M
RBB011	Woman	L
RBB012	Woman	XL

▶ Lab-coat, cotton/polyester



- 1 | 65% polyester - 35% cotton
- 2 | Optical white colour, snap buttons, 3 pockets and lapel collar.

Code	For	Size
RBB005	Man	S
RBB006	Man	M
RBB007	Man	L
RBB008	Man	XL
RBB013	Woman	S
RBB014	Woman	M
RBB015	Woman	L
RBB016	Woman	XL

▶ Lab coat disposable



- 1 | Unisex, synthetic material (non-woven). Velcro closure, 5 points.

Code	Colour	Size
RBB017	White	L (165-175 cm)
RBB019	White	XL (122-138 cm)
RBB020	Green	XL (122-138 cm)
RBB021	Blue	XL (122-138 cm)
RBB022	White	XL (122-138 cm)
RBB023	Green	XL (122-138 cm)
RBB024	Blue	XL (122-138 cm)



RBC - Protection clothes



- 1 | Made on polypropylene of 40 g/m² in white colour.
- 2 | Zip closure. With hood
- 3 | Elastic cuff in wrist and ankle. Diverse sizes
- 4 | Available in more colours, consult us.

Code	Colour	Size
RBC001	White	M
RBC002	White	L
RBC003	White	XL
RBC004	White	XXL
RBC005	White	XXXL



RBD - Head cap



- 1| Made on polypropylene of 14 g/m²
- 2| Elastic band. Bouffant and strip formats.
- 3| Supplied in boxes of 100 units. Available in more colours, consult us.

Code	Type	Colour
RBD001	Bouffant	White
RBD002	Bouffant	Green
RBD003	Strip	White
RBD004	Strip	Blue
RBD005	Strip	Green
RBD006	Strip	Red



RBF - Disposable beard cover



- 1| Made of polypropylene, 14g/m²
- 2| With elastic band and ear-loops.
- 3| Supplied in boxes of 100 units.

Code	Colour	Dimensions	Pack
RBF001	White	22x46 cm	100



RBG - Glasses



Anti-fog



Anti-Fog Plus Coating

Thin layer over the entire surface of the lens with a thickness of a few μm that prevents the formation of condensation water by absorbing the drops of moisture. It prevents fogging from preventing the safe performance of the work itself.

The Anti-Fog Plus treatment is permanent.



Anti-scratch



Anti-Scratch Plus

Treatment applied to the lens surface that forms a barrier against surface damage. The lenses are protected from scratches and abrasions caused by rubbing with solid particles.

The Anti-Scratch Plus treatment is permanent.

Regulations that comply

STANDARD IN 166

DIRECTIVE 89/686/ECC

Field of use applicables

3

Liquids (drops)

4

Powder with particle thickness $> 5 \mu\text{m}$.

5

Gas, steam, spray, smoke and dust with particle thickness $< 5 \mu\text{m}$.

9

Melted metal splashes and hot solid penetration.



RBG - Glasses

▶ Safety goggle 601



- 1 | Panoramic glasses with a wide field of vision. RX insert for prescription glasses
- 2 | PID category III (polycarbonate lens). Adjustable elastic band and soft frame.
- 3 | With ventilation systems: indirect and sealing

Goggle characteristics 601



1. Anti-fog plus coating



2. Anti-scratch Plus

Code	RBG001
Frame	Clear unvented
Field of use	3, 4, 5, 9
Lens	Transparent PC

▶ Basic safety goggles 602

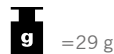


- 1 | Polycarbonate lens. Indirect ventilation system.
- 2 | Overlap with prescription glasses. Adjustable elastic band and soft frame.

Code	RBG002
Frame	Transparent
Field of use	3, 4
Lens	Transparent UC (untreated)



Goggle characteristics 503



= 29 g



2. Anti-fog

Code	RBG004
Frame	Blue light
Lens	Transparent

▶ Safety eyewear 505



- 1 | Neck strap included in the package.
- 2 | Extremely lightweight and wrap-around, soft non-slip rubber nose bridge
- 3 | Elastic structure, very flexible and resistant.

Goggle characteristics 505



= 22 g



2. Anti-scratch

Code	RBG005
Frame	Transparent
Lens	Transparent



RBG - Glasses

Safety eyewear 505



Goggle characteristics 505



2. Anti-scratch



3. Anti-fog



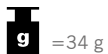
Code	RBG006
Frame	Transparent
Lens	Transparent

Safety eyewear 511 for small faces



- 1 | Adjustment of the pins in length and inclination.
- 2 | Certified version for small faces, with H marking according to EN166
- 3 | Frame made of anti-allergic material, built-in lateral protection.

Goggle characteristics 511



2. Anti-scratch



Code	RBG007
Frame	Blue
Lens	Transparent

Safety eyewear 511



- 1 | Adjustment of the pins in length and inclination.
- 2 | Frame made of anti-allergic material, built-in lateral protection.

Goggle characteristics 511



2. Anti-scratch



3. Anti-fog



Code	RBG008
Frame	Black
Lens	Transparent

Goggle characteristics 511



2. Anti-scratch



Code	RBG009
Frame	Blue
Lens	Transparent

Safety eyewear 520



- 1 | Ventilation system in the side protections
- 2 | Overlap with prescription glasses. Untreated (UC) version, sterilizable.

Code	RBG012
Frame	Transparent
Lens	Transparent UC





RBG - Glasses

▶ Safety eyewear 519



- 1 | Ventilation system practiced in the side protections.
- 2 | Adjustable temples in length and inclination. Superposable to prescription glasses.

Goggle characteristics 519

g =43 g



1. Anti-fog plus



2. Antirayaduras Plus

Code	RBG010
Frame	Black-grey
Lens	Transparent



Goggle characteristics 519

g =43 g



2. Anti-scratch

Code	RBG011
Frame	Black-grey
Lens	Transparent

▶ Safety eyewear 546



- 1 | Wrap-around lens with excellent side coverage
- 2 | Sideburns that guarantee an excellent fit and comfort.
- 3 | Non-slip rubber nose bridge. Very lightweight
- 4 | Protects against blue light up to 525 nm (UV525)

Goggle characteristics 519

g =23 g



1. Anti-fog plus



2. Antirayaduras Plus

Code	RBG014
Frame	Black-orange
Lens	Orange

▶ Safety eyewear 568



- 1 | Inexpensive glasses ideal for essential protection
- 2 | Light, practical, made of polycarbonate.

g =23 g



2. Anti-scratch

Code	RBG015
Frame	Transparent
Lens	Transparent



RBG - Glasses

Safety eyewear 5x7



- 1| Completely overlayable on prescription glasses
- 2| The design of the Frame avoids overlapping of the temples for absolute comfort
- 3| Softpad technology. Pin length adjustment

Goggle characteristics 511



Code	RBG016
Frame	White - blue
Lens	Transparent



Face shield 699 with chin guard



- 1| Interchangeable front sweatband. With upper strip for the regulation of the height of the lid.
- 2| Upper regulation by means of an elastic band. Polycarbonate screen thickness 1mm 90° foldable. Overlap with safety glasses and respiratory masks

Code	RBG017
Field of use	3



Face shield



- 1| Composed of a support, an integral face shield with elastic headband.

Code	RBG054
------	--------



RBJ - Face mask

3 layer mask



- 1| 3 layer (PP+filter paper+PP) mask
- 2| Moldable nose strip, 3 folds and elastic ears-loops. Size: 175x95 mm

Code	Colour	Type	Units/box
RBJ001	White	3 layers	50
RBJ002	Green	3 layers	50
RBJ003	Blue	3 layers	50



3 layer mask



- 1| Conical mask made of polypropylene
- 2| Moldable nose strip and elastic ears-loops. Size: 15x13 cm

Code	Colour	Type	Units/box
RBJ005	White	Shell	50





▶ RBJ - Face mask

▶ Paper mask



- 1 | Simple rectangular paper mask
- 2 | One layer, 2 folds and elastic ear-loops. Size: 19x7 cm

Code	Colour	Type	Units/box
RBJ004	White	Paper	100

▶ RBK - Protection clothes

▶ Apron PS white



- 1 | Simple Polyethylene 0.02 mm (LDPE) on white colour
- 2 | Head opening and rear fastening strap. Size: 76x120 cm
- 3 | Available in more colours, consult us.

Code	Colour	Thickness	Units/box
RBK001	White	0.02 mm	100

▶ RBL - Gloves

▶ Silicon semi-glove



- 1 | In silicone. Embossed inner surface to ensure optimum grip

Code	Max temperature	Size
RBL001	260 °C	Unic



- 1 | In silicone. Internal surface with flexible spikes to ensure optimum grip

Code	Max temperature	Size
RBL004	250 °C	Unic



- 1 | In silicone. Internal surface with flexible spikes to ensure optimum grip

Code	Max temperature	Size
RBL002	140 °C	Unic





RBL - Gloves

▶ Heat-resistant glove



- 1 | Cotton thickness: 850 g/m2. For short term handling.
- 2 | One size

Code	Max temperature	Size
RBL003	100 °C	Unic



▶ Heat-resistant glove



Code	Max temperature	Size
RBL501	900 °C	Unic



▶ Heat-resistant glove



Code	Max temperature	Model
RBL504	800 °C	Kevlar 800
RBL505	400 °C	Kevlar 400



▶ Anti acid gloves



Code	Model
RBL503	Solvex-plus



▶ Heat and spills gloves



Code	Description
RBL506	Protection Pad glove





RBN - Disposable shoe cover



- 1 | Made of polypropylene 30 g/cm²
- 2 | Elastic band in ankle. Size: 16x39 cm
- 3 | Pack of 100 units. Available in more colours, consult us.

Code	Colour
RBN001	White
RBN002	Green
RBN003	Blue



RBP - Visitor kit



Set of safety, hygiene and protective items aimed to provide whole protection to visitors, composed of:

- 1 | Disposable coat PP 35g/m² white, XL size (RBB019)
- 2 | Disposable strip cap PP 14g/m², white (RBD003)
- 3 | Disposable shoe cover PE, white
- 4 | Simple paper mask with elastic ear-loops (RBJ004)

Code	Colour
RBP001	White



RDB - Stations

▶ Eye wash station

Kartell

- 1 | Station made of high impact polystyrene and polyethylene bottle.
- 2 | Can be filled with distilled water or other liquid indicated for ophthalmological use.
- 3 | 500 mL bottle is not included (Ref. RDD001) Dimensions 300x300mm

Code	Descripción
RDB001	French version
RDB002	English version
RDB003	German version

▶ Eye washer

Nahita

- 1 | Pedestal type and base Widthred to the ground. Automatic opening and closing valve.
- 2 | With two high flow sprinklers of low pressure aerated water.

Code	Material
RDB005	Stainless steel
RDB006	PVC eye washer



▶ RDB - Stations

▶ Shower and eye washer



- 1 | Large-diameter artichoke, operated by a rigid handle.
- 2 | With pedestal type eye wash, equipped with two sprayers of high flow of low pressure aerated water and manual side opening.

Code	Material
RDB004	Stainless steel 304



▶ Combined wall station, dust-proof



- 1 | Supplied with mirror and pictogram with instructions for use.
- 2 | Wall station with:
 - 1 pH neutral solution: for eye injuries caused by acids and alkalis
 - 1 saline solution: for eye injuries caused by dust, dirt and splinters.

Code	Soluciones	Use
RDB008	1 x 200 mL pH neutral 1 x 500 mL salina	1 eye
RDB010	1 x 500 mL pH neutral Duo 1 x 1000 mL salina Duo	2 eyes



▶ Combined wall station



- 1 | Supplied with mirror and pictogram with instructions for use.
- 2 | Wall station with:
 - 1 pH neutral solution: for eye injuries caused by acids and alkalis
 - 1 saline solution: for eye injuries caused by dust, dirt, splinters...

Code	Soluciones	Use
RDB007	1 x 200 mL pH neutral 1 x 500 mL salina	1 eye



Code	Soluciones	Use
RDB009	1 x 500 mL pH neutral Duo. 1 x 1000 mL salina Duo	2 eyes





RDD - Eyewash bottles

▶ Eye wash bottle, PE

**Kartell**

- 1 | Polyethylene bottle. Dimensions 63x73x213 mm
- 2 | Eyecup with lid and head with automatic valve
- 3 | It has a discharge tube.

Code	Descripción
RDD001	Eye wash bottle M45

▶ Saline rinsing solution

**plum**

- 1 | 0.9 % sterile sodium chloride solution.
- 2 | Indicated to prevent eye injuries caused by dust, dirt, metal or wood splinters, solvents or oils.
- 3 | 3 year shelf life, they have an expiry date.
- 4 | With clear and precise application instructions and pictograms. With CE marking in accordance with medical equipment regulations.

Code	Capacity	Time of wash	Use
RDD002	200 mL	2 min	1 eye
RDD003	500 mL	2 min	1 eye
RDD004	1000 mL	10 min	1 eye
RDD005	1000 mL (duo)	10 min	2 eyes

▶ pH neutral solution

**plum**

- 1 | 4.9% sterile phosphate solution
- 2 | Indicated to prevent eye injuries and minor skin injuries caused by acids and alkalis.
- 3 | 3 year shelf life, have expiration date.
- 4 | With clear and precise application instructions and pictograms. With CE marking in accordance with medical equipment regulations.

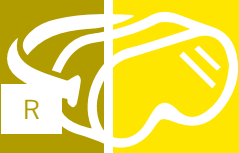
Code	Capacity	Time of wash	Use
RDD006	200 mL	2 min	1 eye
RDD007	500 mL (Duo)	2 min	2 eyes
RDD008	1000 mL	10 min	1 eye

▶ Wound and Eyewash Spray

**plum**

- 1 | 0.9% sterile sodium chloride solution, hypoallergenic, 50mL
- 2 | Quick first aid treatment for both skin and eyes: cuts or scratches on the skin or dust or dirt in the eyes.
- 3 | Helps minimize the risk of infection
- 4 | Reusable, remains sterile until last use. Quick and easy one-handed operation.
- 5 | CE marked in accordance with medical equipment regulations

Code	Capacity
RDD009	50mL



▶ RDZ - Others

▶ Belt bag for bottles



1| Adaptable to the belt or work clothes. Easy to open in case of accident

Code	Use
RDZ001	For bottles of 200 mL



▶ RZB - Table protectors

▶ Safety shield,



1| Made of polymethyl methacrylate. High stability with non-slip feet.

Code	Dimensions	Protection	Thickness
RZB001	242x365 mm	Hazardous chemicals, aerosols coarse sprays	5 mm
RZB002	305x480 mm	Beta-emitting isotopes, including P32	9 mm



▶ Protection paper

1| For protection of work surfaces and the user in case of spillage of aggressive liquids.
2| Weight: 140 g/m²; Thickness: 250 µm.

Code	Dimensions	N° sheets
RZB013	460x570 mm	50



▶ Film de protección



1| Protective film with self-adhesive layers covered with a 25 micron FEP (fluorinated copolymer). Existing in vinyl and aluminium.

Code	Material	Width	Length
RZB003	Vinil	33 m	25 mm
RZB004	Vinil	33 m	50 mm
RZB005	Vinil	33 m	100 mm
RZB006	Vinil	4,6 m	320 mm
RZB007	Vinil	4,6 m	635 mm
RZB008	Aluminium	33 m	25 mm
RZB009	Aluminium	33 m	50 mm
RZB010	Aluminium	33 m	100 mm
RZB011	Aluminium	4,6 m	320 mm
RZB012	Aluminium	4,6 m	635 mm



▶ RZD - Wound treatment

▶ Plaster dispenser



1| A small, modern plaster dispenser with a unique design.
2| QuickFix® UNO is available in a glossy white or with a transparent cover. It can be screwed to the wall or fixed with adhesive plasters.
3| Supplied without strips. This allows you to fill the dispenser with the strips of your choice, according to your needs.

Code	Colour	Dimensions
RZD001	Transparent	130x85x35 mm
RZD005	White	130x85x35 mm





RZD - Wound treatment

▶ Water-proof plasters

**plum**

- 1 | 45 waterproof plasters, designed for work environments with a high level of humidity.
- 2 | Threads made of a PE protective material.

Code	Colour	Dimensions
RZD002	Pink	72x25mm

▶ Detectable plaster

**plum**

- 1 | Strips of a pronounced blue colour incorporating a metal surface which can be detected with a metal detector.
- 2 | Specially suitable for the food industry.

Code	Colour	Dimensions
RZD003	Blue	72x25mm

▶ Plastic plasters

**plum**

- 1 | Small and practical dispenser containing 8 elastic strips that adjust to the movement of the skin.
- 2 | Ideal to carry as it fits perfectly in any bag, pocket or office drawer.

Code	Colour	Dimensions
RZD006	Pink	72x25mm

▶ Aloe vera burn gel

**plum**

- 1 | The burn gel is a clear water-soluble hydrogel, which contains aloe vera. It produces a soothing and refreshing effect and pain relief after excessive exposure to the sun or after exposure to heat.
- 2 | This product may also be used to treat radiation-induced dermatitis.
- 3 | Use is limited to superficial first degree or second degree burns.
- 4 | May be used on children and adults.

Code	Capacity
RZD004	50 ml



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[T]
INDUSTRIAL AND
TUBING GLASSWARE



▶ TCB - Frosted female



Code	Frosted	Lot
TCB001	Spherical 14/23	1
TCB002	Spherical 19/26	1
TCB003	Spherical 24/29	1
TCB004	Spherical 29/32	1
TCB005	Spherical 34/35	1
TCB006	Spherical 45/40	1
TCB008	Spherical 29/15	10
TCB009	Spherical 35/20	1
TCB012	Spherical 41/25	1

▶ TCC - Frosted male



Code	Frosted	Lot
TCC001	Spherical 14/23	1
TCC002	Spherical 19/26	1
TCC003	Spherical 24/29	1
TCC004	Spherical 29/32	1
TCC005	Spherical 34/35	1
TCC006	Spherical 45/40	1
TCC011	Spherical 34/35	1
TCC012	Spherical 45/40	1
TCC014	Spherical 13/5	10
TCC015	Spherical 19/7	10
TCC016	Spherical 19/9	10
TCC017	Spherical 19/10	10
TCC019	Spherical 29/15	10
TCC020	Spherical 35/20	10
TCC023	Spherical 41/25	10

▶ TCD - Joints and accessories

▶ Safe guarding for ground joint



Code	Frosted	Lot
TCD001	14/23	10
TCC005	19/26	10
TCC009	24/29	10
TCC013	29/32	10
TCC017	34/35	10
TCC021	45/40	10

▶ Sealing ring, nitrile



Code	Frosted	Lot
TCD002	14/23	10
TCC006	19/26	10
TCC010	24/29	10
TCC014	29/32	10
TCC018	34/35	10
TCC022	45/40	10

▶ TCD - Joints and accessories

▶ Screw cap resin



Code	Frosted	Lot
TCD003	14/23	10
TCC007	19/26	10
TCC011	24/29	10
TCC015	29/32	10
TCC019	34/35	10
TCC023	45/40	10



▶ Kit of accessories



Code	Frosted	Lot
TCD004	14/23	10
TCD008	19/26	10
TCD012	24/29	10
TCD016	29/32	10
TCD020	34/35	10
TCD024	45/40	10

▶ TFB - Circular



Code	Diameter	Thickness	Lot
TFB001	4 mm (±0.15)	0.8 mm (±0.04)	10,80 kg
TFB002	5 mm (±0.15)	0.8 mm (±0.04)	9 kg
TFB003	6 mm (±0.15)	1 mm (±0.04)	9 kg
TFB004	(±0.15)	1.5 mm (±0.04)	12,10 kg
TFB005	7 mm (±0.15)	1 mm (±0.04)	7,6 kg
TFB006	(±0.15)	1.5 mm (±0.10)	10,5 kg
TFB007	8 mm (±0.15)	1 mm (±0.04)	7,4 kg
TFB008	(±0.15)	1.5 mm (±0.10)	10,2 kg
TFB009	9 mm (±0.15)	1 mm (±0.04)	6,8 kg
TFB010	(±0.15)	1.5 mm (±0.10)	9,6 kg
TFB011	10 mm (±0.15)	1 mm (±0.04)	6,1 kg
TFB012	(±0.15)	1.5 mm (±0.10)	8,6 kg
TFB013	(±0.15)	2.2 mm (±0.15)	11,5 kg
TFB014	(±0.30)	3.5 mm (±0.25)	15,3 kg
TFB015	11 mm (±0.18)	1 mm (±0.04)	12,7 kg
TFB016	(±0.18)	1.5 mm (±0.10)	18,2 kg
TFB017	(±0.18)	2.2 mm (±0.15)	10,2 kg
TFB018	12 mm (±0.18)	1 mm (±0.04)	11,6 kg
TFB019	(±0.18)	1.5 mm (±0.10)	16,6 kg
TFB020	(±0.18)	2.2 mm (±0.15)	11,1 kg
TFB021	(±0.18)	3.5 mm (±0.25)	15,3 kg
TFB022	13 mm (±0.18)	1 mm (±0.04)	10,2 kg
TFB023	(±0.18)	1.5 mm (±0.10)	14,7 kg
TFB024	(±0.18)	2.2 mm (±0.15)	20,3 kg
TFB025	14 mm (±0.18)	1 mm (±0.04)	8,8 kg
TFB026	(±0.18)	1.5 mm (±0.10)	12,6 kg
TFB027	(±0.18)	2.2 mm (±0.10)	17,5 kg
TFB028	15 mm (±0.18)	1.2 mm (±0.05)	8,5 kg
TFB029	(±0.18)	1.8 mm (±0.10)	12,3 kg
TFB030	(±0.18)	2.5 mm (±0.15)	16,1 kg
TFB031	16 mm (±0.18)	1.2 mm (±0.05)	9,2 kg
TFB032	(±0.18)	1.8 mm (±0.10)	13,2 kg
TFB033	(±0.18)	2.5 mm (±0.15)	17,4 kg
TFB034	(±0.18)	3.5 mm (±0.40)	22,5 kg
TFB035	17 mm (±0.18)	1.2 mm (±0.05)	7,2 kg
TFB036	(±0.18)	1.8 mm (±0.10)	10,4 kg
TFB037	(±0.18)	2.5 mm (±0.15)	13,7 kg
TFB038	18 mm (±0.18)	1.2 mm (±0.05)	7,6 kg
TFB039	(±0.18)	1.8 mm (±0.10)	11 kg
TFB040	(±0.18)	2.5 mm (±0.15)	14,7 kg



1 | Length: 1500 mm

DIMENSIONS - tubes

d: diameter base
t: length





TFB - Circular



1 | Length: 1500 mm

DIMENSIONS - tubes

d: diameter base
t: length

Code	Diameter	Thickness	Lot
TFB041	19 mm (±0.18)	1.2 mm (±0.05)	14,3 kg
TFB042	(±0.18)	1.8 mm (±0.10)	20,8 kg
TFB043	(±0.18)	2.5 mm (±0.15)	15,6 kg
TFB044	20 mm (±0.25)	1.2 mm (±0.05)	11,6 kg
TFB045	(±0.25)	1.8 mm (±0.10)	16,9 kg
TFB046	(±0.25)	2.5 mm (±0.15)	22,5 kg
TFB047	(±0.30)	4 mm (±0.40)	24,2 kg
TFB048	22 mm (±0.25)	1.2 mm (±0.05)	9,4 kg
TFB049	(±0.25)	1.8 mm (±0.10)	13,8 kg
TFB050	(±0.25)	2.5 mm (±0.15)	18,4 kg
TFB051	24 mm (±0.25)	1.2 mm (±0.05)	10,4 kg
TFB052	(±0.25)	1.8 mm (±0.10)	15,1 kg
TFB053	(±0.25)	2.5 mm (±0.15)	20,3 kg
TFB054	(±0.30)	4 mm (±0.40)	21 kg
TFB055	26 mm (±0.25)	1.4 mm (±0.05)	13 kg
TFB056	(±0.25)	2 mm (±0.10)	18,1 kg
TFB057	(±0.25)	2.8 mm (±0.15)	24,6 kg
TFB058	28 mm (±0.25)	1.4 mm (±0.05)	9,8 kg
TFB059	(±0.25)	2 mm (±0.10)	13,7 kg
TFB060	(±0.25)	2.8 mm (±0.15)	18,5 kg
TFB061	(±0.30)	4 mm (±0.40)	16,1 kg
TFB062	30 mm (±0.35)	1.4 mm (±0.10)	15,2 kg
TFB063	(±0.35)	2 mm (±0.15)	21,2 kg
TFB064	(±0.35)	2.8 mm (±0.20)	20 kg
TFB065	32 mm (±0.35)	1.4 mm (±0.10)	11,3 kg
TFB066	(±0.35)	2 mm (±0.15)	15,8 kg
TFB067	(±0.35)	2.8 mm (±0.20)	21,5 kg
TFB068	(±0.35)	4 mm (±0.40)	18,8 kg
TFB069	33 mm (±0.35)	2 mm (±0.15)	17,6 kg
TFB070	34 mm (±0.35)	1.4 mm (±0.10)	7,7 kg
TFB071	(±0.35)	2 mm (±0.15)	10,8 kg
TFB072	(±0.35)	2.80 mm(±0.20)	14,7 kg
TFB073	36 mm (±0.40)	1.4 mm (±0.10)	8,1 kg
TFB074	(±0.40)	2 mm (±0.15)	11,4 kg
TFB075	(±0.40)	2.8 mm (±0.20)	15,6 kg
TFB075	(±0.40)	2.8 mm (±0.20)	15,6 kg
TFB076	(±0.40)	4 mm (±0.40)	21,5 kg
TFB077	38 mm (±0.40)	1.4 mm (±0.10)	8,6 kg
TFB078	(±0.40)	2 mm (±0.15)	12,1 kg
TFB079	(±0.40)	2.80 mm(±0.20)	16,6 kg
TFB080	40 mm (±0.55)	1.6 mm (±0.10)	10,3 kg
TFB081	(±0.55)	2.3 mm (±0.20)	14,6 kg
TFB082	(±0.55)	3.2 mm (±0.30)	19,8 kg
TFB083	(±0.55)	5 mm (±0.40)	16,6 kg
TFB084	42 mm (±0.55)	1.6 mm (±0.10)	10,9 kg
TFB085	(±0.55)	2.3 mm (±0.20)	15,4 kg
TFB086	(±0.55)	3.2 mm (±0.30)	20,9 kg
TFB087	44 mm (±0.55)	1.6 mm (±0.10)	11,4 kg
TFB088	(±0.55)	2.3 mm (±0.20)	16,1 kg
TFB089	(±0.55)	3.2 mm (±0.30)	22 kg
TFB090	(±0.55)	5 mm (±0.40)	16,8 kg
TFB091	45 mm (±0.65)	5 mm (±0.40)	19 kg
TFB092	46 mm (±0.65)	1.6 mm (±0.10)	12 kg
TFB093	(±0.65)	2.3 mm (±0.20)	16,9 kg
TFB094	(±0.65)	3.2 mm (±0.30)	23 kg
TFB095	48 mm (±0.65)	1.6 mm (±0.10)	7 kg
TFB096	(±0.65)	2.3 mm (±0.20)	9,9 kg
TFB097	(±0.65)	3.2 mm (±0.20)	13,6 kg
TFB098	50 mm (±0.70)	1.8 mm (±0.15)	10,9 kg
TFB099	(±0.70)	2.5 mm (±0.20)	15 kg
TFB100	(±0.70)	3.5 mm (±0.30)	15,4 kg
TFB101	(±0.70)	5 mm (±0.40)	21,3 kg
TFB103	52 mm (±0.70)	1.8 mm (±0.15)	11,4 kg
TFB104	(±0.70)	2.5 mm (±0.20)	15,6 kg
TFB105	(±0.70)	3.5 mm (±0.30)	16,1 kg

TFB - Circular



Code	Diameter	Thickness	Lot
TFB107	54 mm (±0.70)	1.8 mm (±0.15)	8,9 kg
TFB108	(±0.70)	2.5 mm (±0.20)	12,2 kg
TFB109	(±0.70)	3.5 mm (±0.30)	16,7 kg
TFB111	55 mm (±0.70)	5.0 mm (±0.40)	23,6 kg
TFB112	56 mm (±0.70)	1.8 mm (±0.15)	12,3 kg
TFB113	(±0.70)	2.5 mm (±0.20)	16,9 kg
TFB114	(±0.70)	3.5 mm (±0.30)	17,4 kg
TFB116	58 mm (±0.70)	1.8 mm (±0.15)	12,8 kg
TFB117	(±0.70)	2.5 mm (±0.20)	17,5 kg
TFB118	(±0.70)	3.5 mm (±0.30)	8 kg
TFB119	(±0.70)	5.0 mm (±0.40)	11,2 kg
TFB120	60 mm (±0.80)	2.2 mm (±0.20)	16 kg
TFB121	(±0.80)	3.2 mm (±0.25)	22,9 kg
TFB122	(±0.80)	4.2 mm (±0.40)	9,9 kg
TFB123	(±0.80)	5 mm (±0.20)	11,6 kg
TFB124	(±0.80)	7 mm (±0.60)	15,6 kg
TFB125	(±0.80)	9 mm (±0.70)	19,4 kg
TFB126	65 mm (±0.90)	2.2 mm (±0.20)	11,6 kg
TFB127	(±0.90)	3.2 mm (±0.25)	16,6 kg
TFB128	(±0.90)	4.2 mm (±0.40)	21,5 kg
TFB129	(±0.90)	5.0 mm (±0.40)	12,6 kg
TFB130	70 mm (±0.90)	2.2 mm (±0.20)	12,5 kg
TFB131	(±0.90)	3.2 mm (±0.25)	18 kg
TFB132	(±0.90)	4.2 mm (±0.40)	23,2 kg
TFB133	(±0.90)	5 mm (±0.40)	13,7 kg
TFB134	(±0.90)	7 mm (±0.60)	18,6 kg
TFB135	(±0.90)	9 mm (±0.70)	23,2 kg
TFB136	75 mm (±0.90)	2.2 mm (±0.20)	6,7 kg
TFB137	(±0.90)	3.2 mm (±0.25)	9,7 kg
TFB138	(±0.90)	4.2 mm (±0.40)	12,5 kg
TFB139	(±0.90)	5.0 mm (±0.40)	14,7 kg
TFB140	80 mm (±1.20)	2.5 mm (±0.20)	8,1 kg
TFB141	(±1.20)	3.5 mm (±0.30)	11,3 kg
TFB142	(±1.20)	5 mm (±0.50)	15,8 kg
TFB144	85 mm (±1.20)	2.5 mm (±0.20)	8,7 kg
TFB145	(±1.20)	3.5 mm (±0.30)	12 kg
TFB146	(±1.20)	5 mm (±0.50)	16,8 kg
TFB147	90 mm (±1.20)	2.5 mm (±0.20)	9,2 kg
TFB148	(±1.20)	3.5 mm (±0.30)	12,7 kg
TFB149	(±1.20)	5 mm (±0.50)	17,9 kg
TFB150	(±1.20)	7 mm (±0.70)	24,5 kg
TFB151	(±1.20)	9 mm (±0.80)	30,7 kg
TFB152	95 mm (±1.5)	2.5 mm (±0.20)	9,7 kg
TFB153	(±1.5)	3.5 mm (±0.30)	13,5 kg
TFB154	(±1.5)	5 mm (±0.50)	18,9 kg
TFB155	100 mm (±1.5)	2.5 mm (±0.20)	7,7 kg
TFB156	(±1.5)	3 mm (±0.20)	9,2 kg
TFB157	(±1.5)	3.5 mm (±0.30)	10,6 kg
TFB158	(±1.5)	5 mm (±0.50)	15 kg
TFB159	(±1.5)	7 mm (±0.70)	20,6 kg
TFB160	(±1.5)	9 mm (±0.80)	25,9 kg
TFB161	105 mm (±1.5)	3 mm (±0.30)	9,6 kg
TFB162	(±1.5)	5 mm (±0.50)	15,8 kg
TFB163	110 mm (±1.5)	3 mm (±0.30)	10,1 kg
TFB164	(±1.5)	5 mm (±0.50)	16,6 kg
TFB165	(±1.5)	7 mm (±0.80)	22,8 kg
TFB166	115 mm (±1.5)	3 mm (±0.30)	10,6 kg
TFB167	(±1.5)	5 mm (±0.50)	17,3 kg
TFB168	(±1.5)	7 mm (±0.80)	23,9 kg
TFB169	120 mm (±1.5)	3 mm (±0.40)	11,1 kg
TFB170	(±1.5)	5 mm (±0.60)	18,1 kg
TFB171	(±1.5)	7 mm (±0.80)	25 kg
TFB172	(±1.5)	9 mm (±0.90)	10,5 kg
TFB173	125 mm (±1.5)	3 mm (±0.40)	11,5 kg
TFB174	(±1.5)	5 mm (±0.60)	18,9 kg
TFB175	(±1.5)	9 mm (±0.90)	11 kg



1 | Length: 1500 mm

DIMENSIONS - tubes

d: diameter base
t: length

▶ TFB - Circular



DIMENSIONS - tubes

d: diameter
t: wall thickness



Code	Diameter	Thickness	Lot
TFB176	130 mm (±1.6)	3 mm (±0.50)	8 kg
TFB177	(±1.6)	5 mm (±0.60)	13,1 kg
TFB179	(±1.6)	9 mm (±0.90)	11,5 kg
TFB180	135 mm (±1.6)	3 mm (±0.50)	8,3 kg
TFB181	(±1.6)	5 mm (±0.60)	13,7 kg
TFB182	(±1.6)	7 mm (±0.90)	18,9 kg
TFB183	140 mm (±1.7)	3 mm (±0.50)	8,6 kg
TFB184	(±1.7)	5 mm (±0.60)	14,2 kg
TFB186	145 mm (±1.7)	3 mm (±0.50)	9 kg
TFB187	(±1.7)	5 mm (±0.60)	14,7 kg
TFB188	150 mm (±1.8)	3 mm (±0.50)	4,6 kg
TFB189	(±1.8)	5 mm (±0.60)	7,6 kg
TFB190	(±1.8)	7 mm (±0.90)	10,6 kg
TFB191	(±1.8)	9 mm (±1.00)	13,4 kg
TFB192	155 mm (±2.0)	5 mm (±0.70)	7,9 kg
TFB193	160 mm (±2.0)	5 mm (±0.70)	8,1 kg
TFB194	(±2.0)	7 mm (±1.00)	11,3 kg
TFB195	165 mm (±1.8)	5 mm (±0.70)	8,4 kg
TFB196	(±1.8)	7 mm (±1.00)	11,7 kg
TFB197	170 mm (±1.8)	5 mm (±0.70)	8,7 kg
TFB198	(±1.8)	7 mm (±1.00)	8,7 kg
TFB199	(±1.8)	9 mm (±1.10)	15,3 kg
TFB200	180 mm (±2.0)	5 mm (±0.70)	9,2 kg
TFB201	(±2.0)	7 mm (±1.00)	12,8 kg
TFB202	(±2.0)	9 mm (±1.2)	16,2 kg

▶ TFG - Profile



▶ Tube with internal wall profiled



DIMENSIONS - profiled tubes

d: diameter
t: thickness



1| Length: 1500 mm

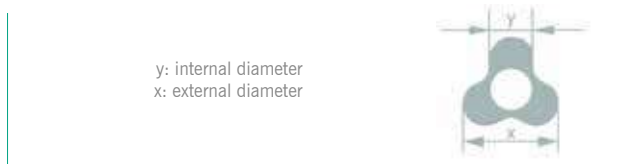
Code	Diameter	Thickness	Lot
TFG007	11 mm (±0.4)	1.0 mm (±0.15)	15,40 kg
TFG008	14 mm (±0.4)	1.0 mm (±0.15)	9,60 kg
TFG001	15 mm (±0.4)	1.0 mm (±0.15)	8,80 kg
TFG030	22 mm (±0.5)	1.0 mm (±0.15)	10,20 kg
TFG031	26 mm (±0.5)	1.5 mm (±0.15)	16,80 kg
TFG009	28 mm (±0.5)	2.0 mm (±0.20)	13,70 kg
TFG002	30 mm (±0.8)	2.0 mm (±0.20)	25,30 kg
TFG010	34 mm (±0.8)	2.0 mm (±0.30)	12,50 kg
TFG011	36 mm (±0.8)	2.0 mm (±0.25)	13,40 kg
TFG012	38 mm (±0.8)	2.0 mm (±0.25)	14,40 kg
TFG003	40 mm (±1.5)	2.0 mm (±0.30)	15,80 kg
TFG004	50 mm (±1.5)	2.5 mm (±0.30)	18,20 kg
TFG005	60 mm (±1.5)	2.3 mm (±0.30)	21,30 kg
TFG013	70 mm (±1.8)	2.8 mm (±0.30)	20,00 kg
TFG006	80 mm (±1.8)	3.2 mm (±0.40)	13,70 kg
TFG014	100 mm (±1.8)	3.0 mm (±0.40)	12,60 kg
TFG015	120 mm (±1.8)	4.0 mm (±0.40)	18,00 kg

TFG - Profile

▶ Tube in cover leaf shape, 3 leaves



DIMENSIONS - tubes in clover leaf shape

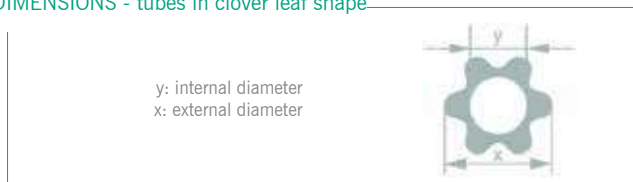


Code	External diam.	Internal diam.	Lot
TFG020	15 mm (±0.1)	7.0 mm (±0.5)	22,90 kg
TFG016	19 mm (±1.0)	9.5 mm (±1.0)	20,20 kg
TFG017	24 mm (±1.0)	10.5 mm (±1.0)	21,90 kg

▶ Tube in cover leaf shape, 6 leaves

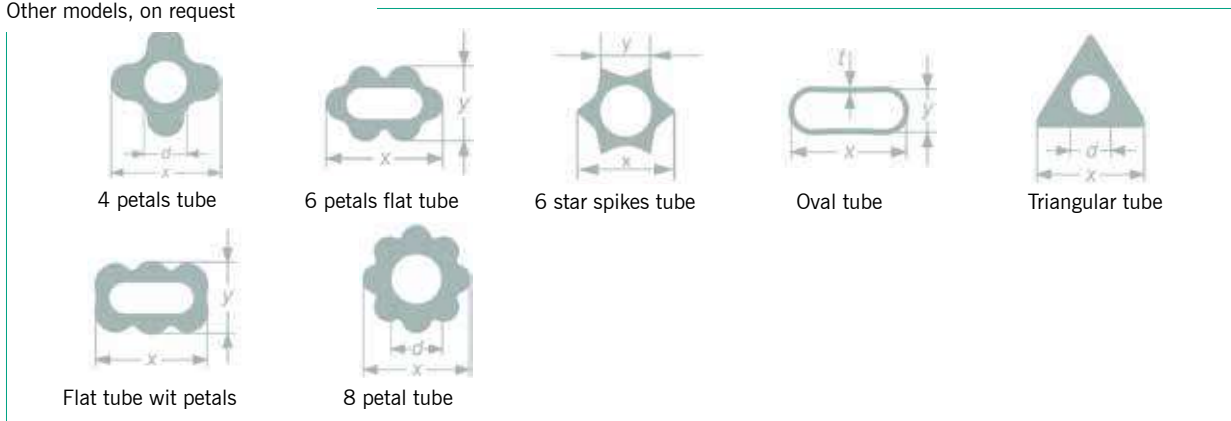


DIMENSIONS - tubes in clover leaf shape



Code	External diam.	Internal diam.	Lot
TFG018	9 mm (±0.5)	4.0 mm (±0.5)	20,40 kg
TFG019	10.0 mm (±0.5)	4.5 mm (±0.5)	19,30 kg
TFG022	11.0 mm (±0.5)	5.0 mm (±0.5)	22,80 kg
TFG023	12.0 mm (±0.5)	5.3 mm (±0.5)	21,90 kg
TFG024	13.0 mm (±0.5)	5.5 mm (±0.5)	20,30 kg
TFG025	14.0 mm (±0.5)	6.2 mm (±0.5)	19,20 kg
TFG026	15.0 mm (±0.5)	6.5 mm (±0.5)	16,70 kg
TFG027	16.0 mm (±0.5)	7.1 mm (±0.5)	19,30 kg
TFG028	17.0 mm (±0.5)	7.0 mm (±0.5)	16,60 kg
TFG029	18.0 mm (±0.5)	7.8 mm (±0.5)	17,20 kg
TFG032	19.0 mm (±0.5)	8.5 mm (±0.5)	19,60 kg
TFG033	20.0 mm (±0.5)	8.2 mm (±0.5)	22,60 kg
TFG034	22.0 mm (±0.5)	11.5 mm (±0.5)	22,90 kg
TFG035	24.0 mm (±0.5)	12.0 mm (±0.5)	19,40 kg
TFG036	26.0 mm (±0.8)	16.0 mm (±0.8)	16,50 kg
TFG037	28.0 mm (±0.6)	17.5 mm (±0.5)	14,70 kg
TFG038	30.0 mm (±0.6)	18.0 mm (±0.5)	16,70 kg
TFG021	32.0 mm (±0.6)	19.0 mm (±0.5)	18,60 kg
TFG039	35.0 mm (±1.5)	21.0 mm (±1.5)	23,70 kg
TFG040	40.0 mm (±1.5)	24.0 mm (±1.5)	16,60 kg

Other models, on request





THB - Capillary - Small diameter



1 | Length: 1500mm

DIMENSIONS - capillares diameter pequeño

y: internal diameter
x: external diameter

Code	External diam.	Internal diam.	Lot
THB001	4 mm (±0,2)	0.8 mm (±0,08)	16 kg
THB003	5 mm (±0,2)	0.5 mm (±0,08)	16,6 kg
THB004	5 mm (±0,2)	0,6 mm (±0,08)	16,6 kg
THB005	5 mm (±0,2)	0,8 mm (±0,08)	16,4 kg
THB007	5 mm (±0,2)	1,2 mm (±0,08)	15,9 kg
THB008	5 mm (±0,2)	1,5 mm (±0,10)	15,4 kg
THB009	6 mm (±0,2)	0,4 mm (±0,08)	16 kg
THB010	6 mm (±0,2)	0,8 mm (±0,08)	15,1 kg
THB011	6 mm (±0,2)	1,0 mm (±0,08)	15,6 kg
THB012	6 mm (±0,2)	1,2 mm (±0,08)	15,5 kg
THB013	6 mm (±0,2)	1,5 mm (±0,10)	15,1 kg
THB014	6 mm (±0,2)	1,7 mm (±0,10)	14,8 kg
THB015	6 mm (±0,2)	2,0 mm (±0,10)	14,3 kg
THB017	6 mm (±0,2)	2,5 mm (±0,10)	1 kg
THB018	6 mm (±0,2)	2,7 mm (±0,10)	12,8 kg
THB022	7 mm (±0,25)	1,7 mm (±0,10)	14,6 kg
THB028	8 mm (±0,25)	1 mm (±0,08)	16,6 kg
THB029	8 mm (±0,25)	1,5 mm (±0,10)	16,2 kg
THB033	8 mm (±0,25)	2,0 mm (±0,10)	15,8 kg
THB034	8 mm (±0,25)	2,2 mm (±0,10)	15,5 kg
THB035	8 mm (±0,25)	2,5 mm (±0,10)	15,2 kg
THB037	8 mm (±0,25)	3,0 mm (±0,10)	14,4 kg
THB038	8 mm (±0,25)	3,5 mm (±0,10)	13,6 kg
THB039	9 mm (±0,25)	3 mm (±0,10)	15,3 kg
THB041	10 mm (±0,25)	1,5 mm (±0,10)	16,4 kg
THB050	10 mm (±0,25)	2,0 mm (±0,10)	16,1 kg



TJB - Circular section



1 | Length: 1500mm

DIMENSIONS - small diameter rods

d: diameter



Code	Length	Diameter	Lot
TJB001	1500 mm (±0,20)	3 mm (±0,15)	16,8 kg
TJB002	1500 mm	4 mm	16,8 kg
TJB003	1500 mm (±0,20)	5 mm (±0,15)	16,9 kg
TJB004	1500 mm (±0,20)	6 mm (±0,15)	16,2 kg
TJB005	1500 mm (±0,10)	7 mm (±0,15)	15,6 kg
TJB006	1500 mm (±0,10)	8 mm (±0,25)	16,8 kg
TJB007	1500 mm (±0,10)	9 mm (±0,25)	17,3 kg
TJB008	1500 mm (±0,10)	10 mm (±0,25)	16,8 kg
TJB009	1500 mm (±0,10)	11 mm (±0,25)	15,9 kg
TJB010	1500 mm (±0,10)	12 mm (±0,25)	18,5 kg
TJB011	1500 mm (±0,10)	13 mm (±0,35)	16 kg
TJB012	1500 mm (±0,10)	14 mm (±0,35)	12,9 kg
TJB013	1500 mm (±0,10)	15 mm (±0,35)	14,8 kg
TJB014	1500 mm (±0,10)	16 mm (±0,35)	10,8 kg
TJB015	1500 mm (±0,30)	18 mm (±0,45)	13,6 kg
TJB016	1500 mm (±0,30)	20 mm (±0,45)	16,8 kg
TJB017	1500 mm (±0,30)	22 mm (±0,45)	11,4 kg
TJB018	1500 mm (±0,30)	24 mm (±0,50)	13,6 kg
TJB020	1500 mm (±0,30)	28 mm (±0,90)	8,2 kg
TJB021	1500 mm (±0,30)	30 mm (±0,90)	9,5 kg
TJB022	1500 mm (±0,30)	32 mm (±1,00)	10,8 kg
TJB025	1500 mm (±0,30)	38 mm (±1,70)	15,2 kg

▶ TJD - Semi round



DIMENSIONS - semiround rods



Code	Dimensions	Lot
TJD002	8.0 mm (±0.3)	12,00 kg
TJD003	9.0 mm (±0.3)	12,90 kg
TJD004	10.0 mm (±0.4)	12,70 kg
TJD005	11.0 mm (±0.4)	13,80 kg
TJD001	12 mm (±0,4)	12,50 kg
TJD006	13.0 mm (±0.4)	12,50 kg
TJD007	14.0 mm (±0.4)	12,50 kg
TJD008	15.0 mm (±0.4)	13,00 kg
TJD009	16.0 mm (±0.4)	13,10 kg

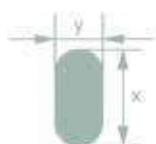


▶ TJG - Flat



DIMENSIONS - flat rods

x: diameter
y: diameter



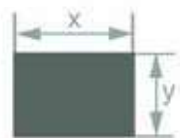
Code	Diameter 'x'	Diameter 'y'	Lot
TJG006	5.0 mm (±0,5)	2.6 mm (±0,5)	14.00 Kg
TJG007	6.0 mm (±0,5)	3.2 mm (±0,5)	14.60 Kg
TJG008	7.0 mm (±0,5)	3.7 mm (±0,5)	15.80 Kg
TJG009	8.0 mm (±0,5)	4.2 mm (±0,5)	15.20 Kg
TJG010	9.0 mm (±0,5)	4.8 mm (±0,5)	14.60 Kg
TJG011	10.0 mm (±0,5)	4.5 mm (±0,5)	14.60 Kg
TJG012	11.0 mm (±0,5)	5.0 mm (±0,5)	16.30 Kg
TJG001	12.0 mm (±0,5)	5.4 mm (±0,5)	15,30 kg
TJG013	13.0 mm (±0,5)	5.8 mm (±0,5)	16.60 Kg
TJG002	14.0 mm (±0,5)	6.3 mm (±0,5)	15.00 kg
TJG003	15.0 mm (±0,5)	6.7 mm (±0,5)	15.80 kg
TJG004	16.0 mm (±0,5)	7.1 mm (±0,5)	16.20 kg
TJG014	18.0 mm (±0,5)	8.0 mm (±0,5)	16.30 Kg
TJG005	20.0 mm (±0,6)	8.0 mm (± 0,5)	18.40 kg



▶ TJJ - Rectangular



DIMENSIONS - rectangulars rods



Code	Diameter 'x'	Diameter 'y'	Lot
TJJ001	5,4 mm (± 0,5)	4 mm (± 0,5)	19,9 kg
TJJ002	8,0 mm (± 0,5)	6 mm (± 0,5)	9,8 kg
TJJ003	9,4 mm (± 0,5)	7 mm (± 0,5)	13,3 kg
TJJ004	10,8 mm (± 0,5)	8 mm (± 0,5)	13,60 kg
TJJ005	12,0 mm (± 0,5)	9 mm (± 0,5)	16,30 kg
TJJ006	13,2 mm (± 0,5)	10 mm (± 0,5)	14,5 kg
TJJ007	14,6 mm (± 0,5)	11 mm (± 0,5)	15,20 kg
TJJ008	16,0 mm (± 0,5)	12 mm (± 0,5)	14,60 kg



TJL - Triangular

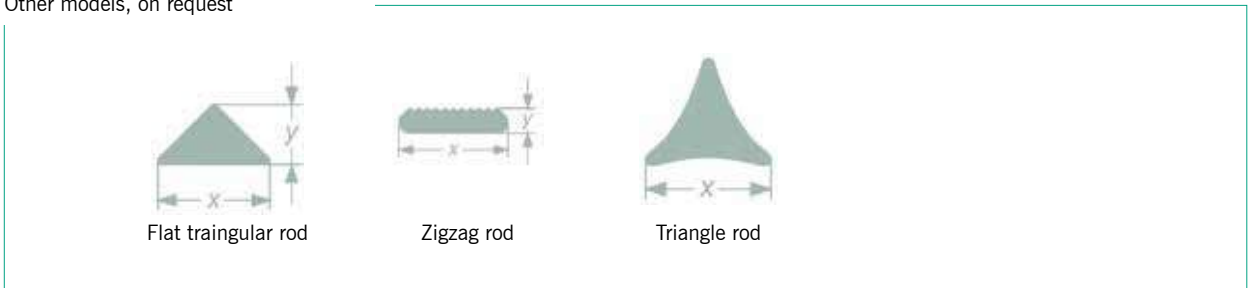


DIMENSIONS - triangular rod



Code	Dimensions	Lot
TJL001	6x6x6 mm (±0,4)	11,30 kg
TJL002	7x7x7 mm (±0,4)	11,20 kg
TJL003	8x8x8 mm (±0,4)	11,10 kg

Other models, on request



TKB - Kettle

Jacketed all-welded kettle



Code	Volume	DN	DN1	DN2	D	D1	L	L1	L2
		PZ	KZA	KZA	mm	mm	mm	mm	mm
TKB001	50 L	300	50	25	486	415	915	165	265
		400	50	25	465	415	800	165	100

PZ= frosted flat base KZA= frosted round base RK= frosted cone base

Modified Reaction vessel NB 400PZ/25KZ



Code	Volume	DN	DN1	L	D	Lot
		PZ	KZA	mm	mm	mm
TKB002	300 L	400	50	1500	620	65.20

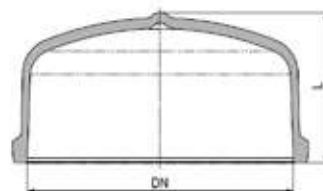
PZ= frosted flat base KZA= frosted round base

▶ TMB - Flat

▶ Blind lid PZ



Code	Type	Length
TMB001	PZ DN 15	50 mm
TMB002	PZ DN 25	75 mm
TMB004	PZ DN 50	100 mm
TMB005	PZ DN 80	110 mm
TMB006	PZ DN 100	110 mm
TMB007	PZ DN 150	125 mm
TMB008	PZ DN 200	155 mm
TMB010	PZ DN 300	170 mm



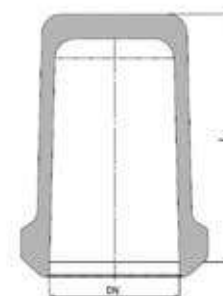
▶ TMM - Sphericals

▶ Blind lid KZA Male



Code	Type	Length
TMM001	KZA DN15	50 mm
TMM002	KZA DN25	75 mm
TMM003	KZA DN40	100 mm
TMM004	KZA DN50	100 mm
TMM005	KZA DN80	110 mm
TMM010	KZA DN300	170 mm

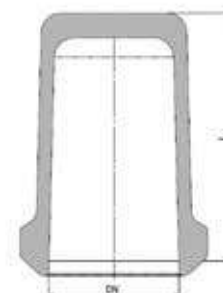
KZA= frosted round base



▶ Blind lid KZB Female



Code	Type	Length
TMM011	KZB DN15	50 mm
TMM012	KZB DN25	75 mm
TMM013	KZB DN40	100 mm
TMM014	KZB DN50	100 mm
TMM015	KZB DN80	110 mm
TMM020	KZB DN300	170 mm



▶ TNC - Stopcock PTFE needle straight



Code	Passageway size
TNC013	0-3 mm
TNC014	0-6 mm



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products we offer at your disposal. Plastic of quality at
a competitive price to satisfy your needs



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ZCC - Ultrasound baths

Digital without heating

**EMAG**

- 1 | Very compact size ideal for cleaning small instruments in dental clinics, veterinary clinics, etc
- 2 | Made of ABS plastic material with oval-shaped tank made of stainless steel AISI 304 (EN 1.4301).
- 3 | Supplied with plastic cover (for sound insulation) and basket (for protection of objects to be cleaned and the vat).

Code	ZCC012
Tank volume	0.6 L
Ultrasound power	50 W
Generator	1 x 50 W
Drain tap	No
External dim. (HxWxL) (mm)	193x120x123
Inner tank dimensions (HxWxL) (mm)	160x90x50
Basket dimensions (HxWxL) (mm)	140x70x40
Power	220-240 V; 50-60 Hz

Digital without heating

**EMAG**

- 1 | Tank and housing made of stainless steel AISI 304 (EN 1.4301).
- 2 | Supplied with cover (for sound insulation) and basket (to protect the objects to be cleaned and the vat)
- 3 | 1-60 min timer and possibility of continuous operation
- 4 | With gas function and "sweep".

Code	ZCC005	ZCC006	ZCC007
Tank volume	3 L	6 L	13 L
Ultrasound power	160 W	240 W	400 W
Generators	2x80 W	3x80 W	5x80 W
Heating power	120 W	120 W	200 W
Temp. range	RT+5°C – 80°C		
Drain tap	Yes	Yes	Yes
External dim.(HxWxL) (mm)	265x165x225	330x175x290	330x270x355
Inner tank dim. (HxWxL) (mm)	238x138x100	302x152x150	302x239x200
Basket dim. (HxWxL) (mm)	220x120x60	285x140x135	280x225x180
Power	220-240 V; 50-60 Hz		

Analogic with heating

**EMAG**

- 1 | Tank and housing made of stainless steel AISI 304 (EN 1.4301).
- 2 | Supplied with cover (for sound insulation) and basket (to protect the objects to be cleaned and the vat)
- 3 | 1-60 min timer and possibility of continuous operation
- 4 | Drain tap of the tank (except ref. ZCC008)

Code	ZCC008	ZCC009	ZCC010	ZCC011
Tank volume	0.8 L	3 L	6 L	12 L
Ultrasound power	60 W	120 W	180 W	300 W
Generators	1x60 W	2x60 W	3x60 W	5x60 W
Heating power	140 W	120 W	120 W	200 W
Temp. range	RT+5°C – 80°C			
Drain tap	No	Yes	Yes	Yes
External dim.*	200x110x160	265x165x225	330x175x290	600x65x355
Inner tank dim.*	180x90x50	238x138x100	302x152x150	500x135x150
Basket dim. *	170x75x40	220x120x60	285x140x135	480x120x135
Power	220-240 V; 50-60 Hz			

*(HxWxL) (mm)

▶ ZCC - Ultrasound baths

▶ Detergent for ultrasonic baths



- 1| Formulated to remove general dirt and chemical residues from glass and laboratory instruments.
- 2| Biodegradable, phosphate-free and concentrated, for mixing 20 mL per liter of water.

Code	Capacity
ZCC004	Container of 1 L



▶ Digital without heating



- 1| Timer switch for 0 -15 minutes or continuous operation. Indicator lamp when the unit is in operation.

Code	ZCC501	ZCC502	ZCC503	ZCC505
Capacity	1 L	2,6 L	6 L	9 L
Usable dim.	6x14x14 cm	9x23x13 cm	15x30x14 cm	15x50x14 cm
Exterior dim.	20x20x18 cm	22x29x19 cm	30x36x20 cm	30x56x20 cm
Generator power	50 W	100 W	150 W	200 W
Timer	Yes	Yes	Yes	Yes
Waste drain	No	No	Yes	Yes
Weight	2,5 Kg	4 Kg	9,5 Kg	10,7 Kg



Compatible accessories - NOT* included with the equipment



Cover holes

Code ZCC517_519 y ZCC528



Lid with handle

Code ZCC520, ZCC524 y ZCC526_527



Basket

Code ZCC528,532,533,525 y 526

Code	Description	For model
ZCC517	Cover holes	ZCC505
ZCC518	Cover holes	ZCC502
ZCC519	Cover holes	ZCC503
ZCC520	Lid with handle	ZCC501
ZCC524	Lid with handle	ZCC502
ZCC526	Lid with handle	ZCC503
ZCC527	Lid with handle	ZCC505
ZCC528	Cover holes	ZCC501
ZCC532	Basket	ZCC501
ZCC533	Basket	ZCC503
ZCC535	Basket	ZCC505
ZCC536	Basket	ZCC502

▶ ZCC - Ultrasound baths

▶ Digital without heating



Code	ZCC515	ZCC504	ZCC506	ZCC508
Capacity	4 L	6,5 L	9 L	20L
Usable dim.	10x30x14 cm	14x24 Ø cm	15x30x23 cm	15x50x30 cm
Exterior dim.	24x33x18 cm	30x27,5 Ø cm	30x36x30 cm	30x56x36 cm
Generator power	100 W	150 W	200 W	400 W
Timer	Yes	Yes	Yes	Yes
Waste drain	Yes	No	Yes	Yes
Weight	7 Kg	8 Kg	13 Kg	22 Kg

Compatible accessories - NOT* included with the equipment



Lid with handle
Code ZCC522_23 y ZCC526



Basket
Code ZCC529_531 y ZCC534

Code	Description	For model
ZCC522	Lid with handle	ZCC506
ZCC523	Lid with handle	ZCC508
ZCC525	Lid with handle	ZCC504
ZCC526	Lid with handle	ZCC515
ZCC529	Basket	ZCC515
ZCC530	Basket	ZCC506
ZCC531	Basket	ZCC508
ZCC534	Basket	ZCC506

▶ Heated Ultrasonic baths "Ultrasons-H"



- 1 | Adjustable thermostat heater.
- 2 | Heater "on" indicator lamp.
- 3 | Timer switch from 0-15 minutes or continuous operation.
- 4 | In operation on indicator lamp.

Code	ZCC507
Capacity	9 L
Usable dim.	15x50x14 cm
Exterior dim.	30x56x20 cm
Power generator	200 W
Power Heater W	800 W
Weight	11 Kg

▶ "Ultrasons-HD"



- 1 | Double body container, completely made of stainless steel and with waste drain device. Illuminated main switch.

Code	ZCC509	ZCC510	ZCC511
Capacity	5 L	6 L	10L
Usable dim.	15x24x14 cm	15x30x15 cm	15x30x24 cm
Exterior dim.	27x31x18 cm	27x35x18 cm	35x38x28 cm
Power generator	120 W	180 W	240 W
Power Heater W	75 W	75 W	225 W
Weight	3,8 Kg	5,8 Kg	8,2 Kg

▶ ZCC - Ultrasound baths

▶ “Ultrasons-HD”



1| Double body container, completely made of stainless steel and with waste drain device. Illuminated main switch.

2| Increase/decrease time push button in minutes (from 0' to 99'). Increase/decrease temperature push button in °C.

Code	ZCC512	ZCC513
Capacity	22 L	40 L
Usable dim.	15x50x30 cm	20x50x40 cm
Exterior dim.	27x58x35 cm	40x65x50 cm
Power generator	600 W	900W
Power Heater W	375 W	1.000W
Weight	15 Kg	25 Kg



▶ Ultrasonic pipette cleaner “Ultrasons-P”



1| Designed for automatically cleaning and rinsing pipettes, mounted inside a basket, pipettes are ultrasonically cleaned and rinsed.

2| Minimum rinsing time by using a water siphon.

Code	ZCC514
Capacity	10 L
Usable dim.	Ø 15x64 cm
Exterior dim.	84x34x40 cm
Power W	250 W
Weight	15 Kg



▶ Ultrasonic pipette cleaner “Ultrasons-P”



1| Stainless steel stamped inner basin with minimum and maximum level indicator.

2| Outdoor cabinet, basket with grill and PVC cover. Maximum cleaning power, frequency 42 KHz.

Code	ZCC516
Capacity	1,4 L
Usable dim.	6x13x16 cm
Exterior dim.	15x17x22 cm
Power W	70 W
Weight	1,75 Kg



▶ Cover, lid with handle and basket

Code	Description	For model
ZCC517	Cover holes	ZCC505
ZCC518	Cover holes	ZCC502
ZCC519	Cover holes	ZCC503
ZCC520	Lid with handle	ZCC501
ZCC522	Lid with handle	ZCC506
ZCC523	Lid with handle	ZCC508
ZCC524	Lid with handle	ZCC502
ZCC525	Lid with handle	ZCC504
ZCC526	Lid with handle	ZCC515/503
ZCC527	Lid with handle	ZCC505
ZCC528	Cover holes	ZCC501

Code	Description	For model
ZCC529	Basket	ZCC515
ZCC530	Basket	ZCC506
ZCC531	Basket	ZCC508
ZCC532	Basket	ZCC501
ZCC533	Basket	ZCC503
ZCC534	Basket	ZCC506
ZCC535	Basket	ZCC505
ZCC536	Basket	ZCC502



ZCF - Brushes

Sponge scrubber Mousse



AUTO

+121°

- 1 | Autoclavables.
- 2 | Model n°1 made from fibres.
- 3 | Models n° 2, 3 y 4 made from polyethylene foam that is durable and long lasting.

Code	N°	Total length	For
ZCF001	3	480 mm	Cylinders, test tubes...
ZCF002	2	250 mm	Beakers, flasks, jars.....
ZCF003	1	220 mm	Test tube Ø < 25mm
ZCF004	4	440 mm	Erlenmeyer, separating funnels...

Flexible brushes



- 1 | Made of flexible rubber covered with polyvinyl chloride and nylon bristle.

Code	Length	Brush (ØxL)
ZCF005	580 mm	30x165 mm
ZCF006*	720 mm	45x200 mm

* these items are supplied under request

With tuft



Code	Length	Brush (ØxL)	For
ZCF008	360 mm	15x70 mm	Small tubes
ZCF009	350 mm	25x75 mm	Medium tubes
ZCF010	350 mm	30x85 mm	Large tubes
ZCF015	850 mm	10x180 mm	Burettes 10 mL
ZCF016	870 mm	15x260 mm	Burettes 25 mL

Without tuft



Code	Length	Brush (ØxL)	For
ZCF007	300 mm	10x70 mm	Hemolysis tubes
ZCF011	380 mm	40x110 mm	Cylinders 250 mL
ZCF012	380 mm	50x130 mm	Cylinders 500 mL
ZCF013	440 mm	56x140 mm	Cylinders 1 L
ZCF014	440 mm	80x160 mm	Cylinder, 2 L
ZCF018	500 mm	10x100 mm	Pipettes
ZCF017	450 mm	80x150 mm	Glasses
ZCF019	210 mm	15x70 mm	Tracheal
ZCF020	270 mm	5/10x80 mm	Butyrometers

ZCF - Brushes

Brushes "COMCEP"



Code	Style	Bristle	Length	Bristle type
ZCF501	1	4x90 mm	400 mm	Goat hair
ZCF502	2	10x100 mm	700 mm	Goat hair
ZCF503	3	10x90 mm	240 mm	Pig bristle
ZCF504	4	15x100 mm	320 mm	Pig bristle
ZCF505	5	25x100 mm	700 mm	Pig bristle
ZCF506	6	30x100 mm	300 mm	Pig bristle
ZCF507	7	35x100 mm	440 mm	Pig bristle
ZCF508	8	55x100 mm	440 mm	Horse hair
ZCF509	9	80x130 mm	700 mm	Horse hair
ZCF510	10	25x130 mm	350 mm	Pig bristle
ZCF511	11	25x100 mm	320 mm	Pig bristle
ZCF512	12	110x450 mm	450 mm	Nylon
ZCF513	13	40x250 mm	400 mm	Nylon

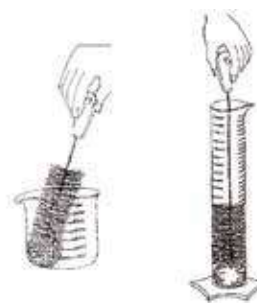


Sponge+fiber brush



1| Fiber scrubber with brush polyethylene at the end, suitable for cleaning flasks, culture jars and vessels in general

Code	Sponge width	Sponge length	Total length
ZCF514	50 mm	140 mm	300 mm

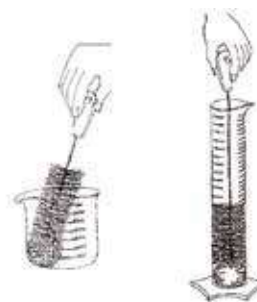


Sponge+fiber brush



1| Fiber scrubber with brush polyethylene at the end, suitable for any kind of vessels cleaning, test-tubes, culture jars and flasks in general.

Code	Sponge width	Sponge length	Total length
ZCF515	50 mm	180 mm	500 mm



ZCH - Paper

Standar wiping paper



Stand support for standard wiping paper

In white colour, without cutting bar for the paper

Code ZCH007

1| Pure white cellulose.

Code	Dimensions	N° sheets/roll	Quantity
ZCH001	260x 50 mm	1000	2 rolls



ZCH - Paper

Krantex rolls

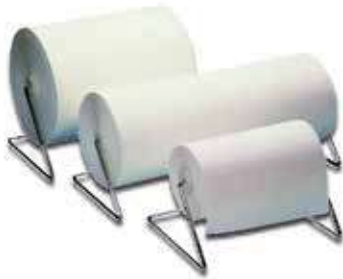


Table support for Krantex rolls

Code	Description	Dimensions	For code
ZCH008	Table support	250x380 mm	ZCH004 / ZCH005
ZCH009	Table support	380x500 mm	ZCH006
ZCH010	Set wall mounting for support coil	250x380 mm	ZCH008
ZCH011	Set wall mounting for support coil	380x500 mm	ZCH009

1 | In pure white cellulose, super absorbent.

Code	Dimensions	N° sheets/roll	Quantity
ZCH003*	200x250mm	1000	2 rolls
ZCH004*	250x380mm	500	2 rolls
ZCH005*	250x380mm	250	1 roll
ZCH006*	380x500mm	500	2 rolls

* these items are supplied under request

Lens cleaning



1 | Code ZCH012 is supplied in 25 packs of 25 sheets each one

Code	Dimensions	N° sheets
ZCH012	95 x 135 mm	625
ZCH013	190 x 135 mm	500
ZCH014	190 x 270 mm	500
ZCH015	380 x 540 mm	500

Slide-dryer paper



Code	Dimensions	N° sheets
ZCH002	100x40 mm	50 sheets

* these items are supplied under request

ZCK - Autoclaves

Autoclave autester-p 1.5 L



1 | The autoclave "Autester P" is specialized for the rapid sterilization of small material or unwrapped solid instruments.

2 | After 10 to 15 minutes the material is sterilised and dry for use..

Code	ZCK502
Capacity	1,5 L
Ø x depth	Ø 9x16 cm
Exterior dim.	34x20x45 cm
Power W	1100 W
Weight	17,2 Kg

ZCK - Autoclaves

Autester ST DRY PV B 12



- 1| Stainless steel internal chamber. Staged vacuum purge. Dry by vacuum
- 2| Incorporated steam generator.
- 3| Accesories, thermal printer code, ZCM528, not included.

Code	ZCK503
Capacity	12 L
Temperature	121 and 134
Ø x depth	Ø 20x35 cm
External dimensions	39,2x48,7x60 cm
Trays dimensions	1,8x14x29,5 cm
Power W	1800 W
Weight	42,2 Kg



Autester ST DRY PV 18 L and 23 L



- 1| Digital electronic control. Stainless steel internal chamber.
- 2| Staged vacuum purge.
- 3| Incorporated steam generator.
- 4| Water reservoir to supply the chamber. High vapour penetration of porous material

Code	ZCK504	ZCK505
Capacity	18 L	23 L
Temperature	121 and 134	121 and 134
Ø x depth	Ø 24,5x38 cm	Ø 24,5x48 cm
External dimensions	40x47x56 cm	40x47x67 cm
Trays dimensions	2x20,5x28 cm	2x20,5x38 cm
Power W	1500 W	1700 W
Weight	46,6 Kg	48 Kg



Autoclave for sterilization "MICRO 8"



- 1| Desktop model

Code	ZCK506
Capacity	8 L
Temperature	121 and 134
Ø x height	Ø 24x15 cm
Exterior dim.	40x38x38 cm
Power W	1000 W
Weight	13 Kg



Autoclave for sterilization "MED 12"



- 1| Desktop model

Code	ZCK507
Capacity	12 L
Temperature	121 and 134
Ø x height	Ø 24x26 cm
Exterior dim.	46x38x38 cm
Power W	1800 W
Weight	18 Kg



ZCK - Autoclaves

▶ “Presoclave” 50 L ,80 L and 150 L



- 1| External case made from stainless steel.
- 2| INCOLOY stainless steel heater elements, hard waring, resistant to corrosion and high temperatures.
- 3| RS-232 connection.
- 4| External lateral probe port.

Code	ZCK509	ZCK510	ZCK518
Capacity	50 L	80 L	150 L
Temperature	115 to 134	115 to 134	115 to 134
Ø x height	Ø 30x70 cm	Ø 40x62 cm	Ø 50x70 cm
External dimensions	117x48x62 cm	119x58x72 cm	118x80x95 cm
Power W	3600 W	3600 W	7500 W
Weight	75 Kg	100 Kg	225 Kg

Compatible accessories PRESOCLAVE - NOT included with the equipment



Probe PT100
Code ZCM516

Code	Description
ZCM516	Probe PT100

▶ “Presoclave PLUS” 80 L and 150 L



- 1| External case made from stainless steel.
- 2| INCOLOY stainless steel heater elements, hard waring, resistant to corrosion and high temperatures.
- 3| Process registration and download via usb.

Code	ZCK520	ZCK521
Capacity	80 L	150 L
Temperature	115 to 134	115 to 134
Ø x height	Ø 40x62 cm	Ø 50x70 cm
External dimensions	119x58x72 cm	118x80x95 cm
Power W	3600 W	7500 W
Weight	100 Kg	225 Kg

Compatible accessories PRESOCLAVE PLUS - NOT included with the equipment



Probe PT100
Code ZCM516



Thermal printer
Code ZCM517

Code	Description
ZCM516	Probe PT100
ZCM517	Thermal printer

ZCK - Autoclaves

Autoclave for sterilization "MED 20"



1| Greenical stand model.

Code	ZCK508
Capacity	20 L
Temperature	121 and 134
Ø x height	Ø 24x41 cm
Exterior dim.	70x38x38 cm
Power W	2500 W
Weight	41 Kg



Autester ST DRY PV III" 25



- 1| Sterilization chamber and lid made from AISI 304 stainless steel.
- 2| External case epoxy coated.
- 3| Digital control of all autoclave operations.
- 4| TFT 3,5" touch screen .

Code	ZCK511
Capacity	25 L
Temperature	105 to 134
Ø x depth	Ø 30x35 cm
External dimensions	58x46x59 cm
Power W	2510 W
Weight	52 Kg



Autester ST DRY PV III



- 1| Stainless steel exterior and top.
- 2| Stainless steel lid.
- 3| Lid, six closure point system.
- 4| Pulsed vacuum system and atmosphere purge.

Code	ZCK515	ZCK517
Model	DRY PV III 50	DRY PV III 150
Capacity	50 L	80 L
Temperature	105 to 134	105 to 134
Ø x height	Ø 30x63 cm	Ø 50x70 cm
External dimensions	117x48x62 cm	118x80x95 cm
Power W	3000 W	7500 W
Weight	108 Kg	250 Kg



Compatible accessories ST DRY PV III - NOT included with the equipment



Thermal printer
Code ZCM017

Code	Description
ZCM517	Thermal printer



ZCM - Autoclaves, accessories

Dry heat sterilization tape

**Kartell**

1 | Color change from white to brown, lead-free. Length 50m and width 19 mm.

Code	Sterilization method
ZCM001	Dry, Poupinel method
ZCM002	Autoclave: 20 min at 121°C, 10 min at 125°C, 5 min at 135°

Detergent "BIO-SEL"

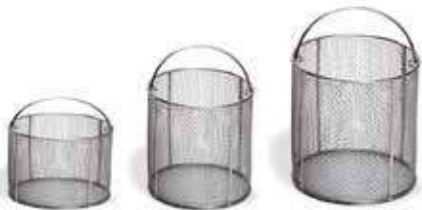


1 | Bio-degradable, phosphate free.

2 | Excellent cleaning power just by mixing only 20ml per litre of water. BIO-SEL, in a 2% solution has a 9.7 pH level. Low toxicity.

Code	Capacity
ZCM501	1 L
ZCM502	4 L
ZCM503	Box of 12 x 1 litre bottles.
ZCM504	Box of 4 x 4 litres bottles.

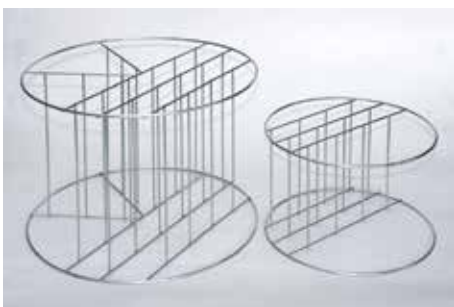
Wire baskets



1 | Made of AISI 304 stainless steel sheet with electro-bright finish.

Code	Dimensions
ZCM505	220 Ø x 140 mm high.
ZCM506	220 Ø x 240 mm high.
ZCM507	265 Ø x 185 mm high.
ZCM508	365 Ø x 265 mm high.
ZCM509	435 Ø x 205 mm high.

Dividers for wire baskets



Code	Description	For basket
ZCM510	4 compartment divider	ZCM507
ZCM511	6 compartment divider	ZCM508
ZCM512	7 compartment divider	ZCM509

ZCM - Autoclaves, accessories

Sterilization drums



1 | Made from AISI 304 stainless steel.

Code	Dimensions Ø x Height
ZCM513	28x18 cm
ZCM514	35x27 cm
ZCM515	28x18 cm



Ink printer (not thermal).



1 | Paper 2 1/4" (56 mm) wide roll. Interface RS232. Includes power transformer and interface cables. (5V-3A)

Code	Dimensions	Weight
ZCM520	4x16x10 cm	1 Kg



Bag sealer "Seal-1000"



1 | Metal construction with stainless steel tray. Pressure sealer unit with lateral lever with two bilateral cutting edges.
2 | Constant sealing temperature (from 180 °C and 200 °C).

Code	Dimensions	Power	Weight
ZCM522	30x36x43 cm	400W	6,5 Kg



Compatible accessories Ink printer - NOT included with the equipment



Sterile paper bags
Code ZCM518_519



Trimmer "Policort"
Code ZCM526



Date stamping machine
Code ZCM527

Code	Description
ZCM518	Sterile paper bags 7.5 cm
ZCM519	Sterile paper bags 10 cm
ZCM526	Trimmer "Policort"
ZCM527	Date stamping machine

ZCM - Autoclaves, accessories

Water distiller "DEST-4"



- 1 | Case made from thermo resistant plastic. Internal stainless steel. Cooling by forced air through a condenser. Without glass heater elements, Easy to use.
- 2 | Safety cut out if over temperature due to insufficient water. Supplied complete with a 4 litres plastic bottle and

Code	Distillation capacity	Conductivity	Ø Height	Power
ZCM524	1,2 l/h	5 µs/cm	29x39 cm	750

Compatible accessories water distiller - NOT included with the equipment

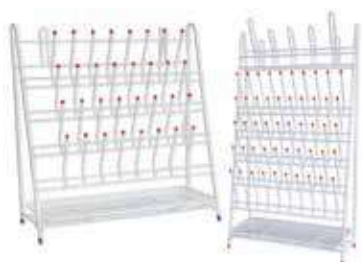


Dispenser spout with filter.
Code ZCM525

Code	Description
ZCM525	Distillation capacity: 1.2 litres/hour. Internal capacity 4 litres.

ZCZ - Others

Draining rack

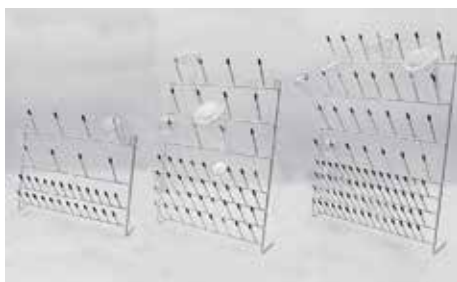


- 1 | Made of plasticized wire. Includes lower drip tray.

Code	Hangers	HxWxD (mm)
ZCZ001	32	470x360x150 mm
ZCZ002	55	640x360x140 mm

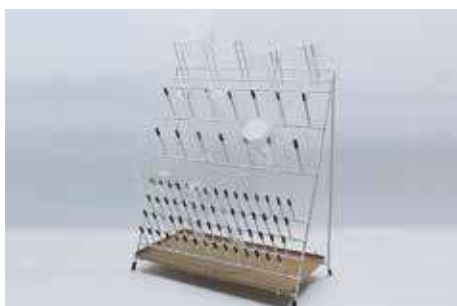
Code	Description
ZCZ016	Tray for draining rack ZCZ001, ZCZ002

* this item is available until end of stock



- 1 | Made of PCV coated wire.

Code	Positions	HxW (mm)
ZCZ504	32	300x400 mm
ZCZ503	48	500x400 mm
ZCZ502	88	620x500 mm



- 1 | Made of PCV coated wire.

Code	Positions	HxW (mm)
ZCZ507	79	640x500

ZCZ - Others

▶ Draining rack 20 places



1 | Wall model, made of polypropylene. 20 detachable posts.

Code	Dimensions
ZCZ003	500x350x100 mm



▶ Wall draining rack



1 | Made of shockproof polystyrene, it does not oxidize or peel.
 2 | One-piece mould and drainage channel without connecting lines.
 3 | Includes wall fixing hooks, drainage kit (joint+tube) and 72 supports (95x15 mm) + 11 supports (95x6 mm). Support plate thickness: 4 mm.

Code	Hangers	Dimensions
ZCZ004	72	450x63x110 mm



▶ Small pegs for drying rack



1 | Made of polystyrene. For drainer ZCZ004.

Code	Dimensions	Rack
ZCZ005	95x6 mm	11 pcs
ZCZ006	95x16 mm	72 pcs



▶ Drying rack



1 | Back plate and trough made from PVC with drainage nozzle.

Code	Positions	HxL (mm)
ZCZ505	75	450x630 mm



▶ Chemical waste disposal system, PE/PP



1 | For collection of liquid chemicals in the laboratory. The inlet hopper made from PE-HD contains a self-closing float, overflow protection, and a splash guard. Additionally, a screw cap (GL 63) with sealing ring is included.

Code	Volume	Ø	Height
ZCZ506	75	222 mm	560 mm



ZCZ - Others

RECOMMENDED COMPOSITION



Pipette washer

Quantity	Description
1 x ZCZ008	Washer (734 mm H)
2 x ZCZ012	Basket (648 mm H)
1 x ZCZ009	Jar (650 mm H)

Burettes washer

Quantity	Description
1 x ZCZ007	Washer (990 mm H)
2 x ZCZ012	Basket (648 mm H)
4 x ZCZ015	Extension handle
1 x ZCZ009	Jar (650 mm H)

▶ Maxi pipette washer



Kartell

- 1 | Made of polyethylene and polypropylene.
- 2 | Siphon drainage system.
- 3 | Ref. ZCZ007 admits pipettes max. 100ml or Mohr burettes.

Code	Diameter	Height
ZCZ007	165 mm	990 mm
ZCZ008	165 mm	734 mm

▶ Pipette jar



Kartell

Code	Diameter	Height
ZCZ009	162 mm	650 mm
ZCZ010	162 mm	500 mm

▶ Pipette basket



Kartell

Code	Diameter	Height
ZCZ012	145 mm	648 mm
ZCZ013	145 mm	497 mm
Extension handle ZCZ015	—	—

ZCZ - Others

Cylinder for pipettes

Kartell

Code	Diameter	Total height	Height interior
ZCZ014	82 mm	426 mm	410 mm



ZFD - Molecular biology

Greenical electrophoresis cell

Nahita

- 1| For separation of molecules in polyacrylamide gels
- 2| With platinum electrodes. Compatible with power supply ref. ZFD014 and transfer module ref. ZFD006.

3| Includes:

- One-piece acrylic cuvette.
- Support for gels.
- Device for gel polymerization.
- Flat and formatted glass plates with fixed spacers of 1 or 1.5 mm thickness.
- Set of 10 and 15-well combs for 1 and 1.5 mm thick gels
- Thick glass plate in case of single gel electrophoresis.

Code	ZFD005
Number of gels	1 ó 2
Gel size	82 x 82 mm
Nº of samples	10 or 15 by gel
Glass plate dimensions	102 x 85 mm
Buffer	750 mL
Electrophoresis time	45-60 min (a 200 V)
Tank dimensions (HxWxL)	150x140x100 mm



Horizontal electrophoresis cell

Nahita

- 1| Made of high quality acrylic material in one piece.
- 2| Transparent cover, with fixed power cables with banana type connector.
- 3| Easy to replace platinum electrodes.
- 4| Auto shut-off function in case of lid removal.
- 5| Accessories included:
 - Mold for the preparation of gels
 - Dark banded gel tray for easy sample loading
 - Set of combs of different thickness and number of samples

Code	ZFD013
Gel size	78x100 mm
Nº of samples	8/15
Combs size	1 y 2 mm
Buffer (approx.)	300 mL
Input voltage	150 V
Dimensions (HxWxL)	365x105x55 mm





ZFD - Molecular biology

Transfer module



- 1| For transfer of proteins from polyacrylamide gels (Western Blot).
- 2| Support with platinum electrodes.
- 3| Color coded to ensure correct gel orientation during transfer process.
- 4| Compatible with external tank of the vertical electrophoresis cell and power supply ref. ZFD014.
- 5| It includes:
 - 2 polycarbonate cassettes with perforated plates.
 - 4 cushions.

Code	ZFD006
Pore plate dimensions	95 x 87 mm
Buffer	500 mL
Working conditions	0-40°C; ≤80% HR

Transilluminator



- 1| UV light source wavelength 312 nm
- 2| Equipped with 4 quartz lamps of 8 W.
- 3| Highly transparent and protective screen against UV emission. Can be positioned at any angle for safe and comfortable use.

Code	ZFD015
Wavelength	312 nm
Filter size UV	150x200 mm
Emission power	4 x 8 W
Dimensions (HxWxL)	325x265x150 mm
Power	220 V; 50 Hz

Power supply for electrophoresis cell



- 1| Easy to use LCD display and control panel.
- 2| With indication of the programmed value and the actual value at the same time. Programmable time function.
- 3| With automatic detection of lack of load, overload, short circuit, rapid change of resistance and overheating of the system.

Code	ZFD014	ZFD016
Output voltage	10-300 V	10-600 V
Output current	1-400 mA	1-500 mA
Output power	1-120 W	1-300 W
Output	4 parallel outputs	
Dimensions (HxWxL)	230x237x118 mm	
Power	220 V; 50 Hz	

Bench top ultraviolet radiation sterilizer



- 1| Main body made of expanded polystyrene, with a polished AISI 304 stainless steel tray that reflects the U.V radiation and a protective smoke coloured methacrylate top that allows the samples to be seen and at the same time, it is opaque to U.V. light.
- 2| U.V. Wave length: U.V. 2537 Angstroms.
- 3| U.V. lamp life span: 5000 hours approx.

Code	ZFD501
Interior dimen.	7 to 9x50x20 cm
Exterior dimen.	17x57x38 cm
Power	15W
Weight	7,5 Kg

ZFD - Molecular biology

▶ Thermalcycler PureAmp G



- 1| High quality and durability of Peltier technology components, increasing the life of the equipment
- 2| With gradient function to speed up the technical set-up.
- 3| Universal high-performance power supply unit
- 4| 5.7" High Definition LCD
- 5| Graphical user interface
- 6| Protection against power failure
- 7| Rugged, solid, durable metal housing
- 8| Thermostatisable and adjustable height cover.



[01]
Detail of the aluminium for tubes, strips and PCR plates



[02]
LCD screen

Code	ZFD012
Model	PureAmp G
Capacity	96x0.2 mL
Temperature range	0 – 99.9°C
Heating rate	4°C/s
Cooling rate	3°C/s
Uniformity	≤±0.3°C
Accuracy	≤±0.2°C
Screen resolution	0.1°C
Temperature control	Block/Tube
Temp. Increment range	0.1 - 4°C/s
Gradient uniformity	≤±0.3°C
Gradient accuracy	≤±0.2°C
Temp, gradient range	30-99.9°C
Gradient extent	1-30°C
Temp. range lid	30 - 110°C
Regulable height lid	Yes
Number of programs	200
Max. number of segments	9
Max. number of steps	9
Max. number of cycles	99
Time increase/decrease	1 second – 9 min 59 s
Temp. increase/decrease	0.1 – 9.9°C
Pause function	Yes
Auto data protection	Yes
Graphical display	Yes
Hold low temperature at 4°C	Indefinite time
LCD display	5.7", 320x240 pixels
Port	RS232
Dimensions (HxWxL)	392x262x252 mm
Weight	10 Kg
Power	85-260 V AC, 50-60 Hz, 600 W

ZFD - Molecular biology

Thermal cycler, model 4196



- 1| High quality and durability of Peltier technology components.
- 2| Compact and quiet design.
- 3| 7-inch colour touch screen to control all equipment functions and display detailed graphics throughout the PCR process
- 4| Combined block to fit different types of tubes, strips and plates.
- 5| Heatable and height-adjustable lid.
- 6| USB and LAN output for data transfer and possibility of external USB memory connection for unlimited protocol storage.
- 7| Gradient function
- 8| It has two modes of temperature control; block and tube.
- 9| Multiple user registration with password.
- 10| Tm calculation: performs automatic calculation of denaturation and hybridization temperature.
- 11| Pause function and program restart.



[01]
Detail of 2 in 1
combination block



[02]
Software detail

Code	ZFD002
Model	4196
Block	
Capacity	96 x 0.2 mL; 77 x 0.5 mL
Compatibilidad	Tubos 0.2 mL y 0.5 mL (pared fina) Tiras de 8 y 12 tubos Placas de PCR de 96 pocillos
Tecnology	New generation Peltier.based technology (up to 1.000.000 cycles)
USB Flash drive	Unlimited storage of protocols in USB Flash Drive
Communication ports	2 USB 2.0 y LAN
Temperature	
Temp. range in block	0° C – 100° C
Max heating range	5 °C/s
Max cooling range	4 °C/s
Uniformity temp.	≤ ± 0.2 °C (a 95°C)
Accuracy temp.	≤ ± 0.2 °C (35°C – 100°C)
Temp. control mode	Tube and block
Regulable increment range	Yes
Gradient	
Accuracy gradient	≤ ± 0.3 °C (35°C-100)
Column uniformity	≤ ± 0.3 °C (a 95°C)
Gradient range	30 °C – 99.9 °C
Diferencial temp. range	1 °C – 30 °C
Lid	
Height	Adjustable lid, accommodates all kinds of PCR tubes, strips and plates
Temp. range	30°C - 112 °C
Auto shut-off	Yes
Software	
Programs	Max. 10.000 programs on board, unlimited sotrage with USB flash drive
Max. number of steps & cycles	30 steps, 100 typical cycles, max. 60.000 nesting cycles
Increment/disimintion temp & time	Yes, para PCR Long y PCR Touchdown
Auto pause & Auto start	Yes
Hold at 4 °C	Yes, for unlimited time
Power	85-265 V ± 25%, 47/63 Hz, Max. 600 W

ZFP - Histology

▶ Hand microtome model 501



- 1 | With glass plate and inner clamp to hold the inclusion.
- 2 | Micrometric screw on the base for sample feed. Cutting range from 10 μm . Includes blade.

Code	ZFP001
Diameter	65-66 mm



Compatible accessories Microtome model 501 - NOT* included with the equipment

			
Glass plate Code ZFR009	Knife handle Code ZFR010*	Histologic folding knife, SS handle Code FMB001*	Histologic folding knife, plastic handle Code FMB002-

▶ Rotary microtome semi-automatic




- 1 | Safety for the user, it has a blade holder for disposable blades with a folding finger guard and a handwheel locking system in any position.
- 2 | Touch screen for adjustment and control of parameters: motorized forward and backward movement of the sample, thickness of the cut, thickness of grinding and counting of cuts.
- 3 | Softly operated handwheel with ergonomic handle.
- 4 | Blade holder base for disposable blades with lateral adjustment mechanism.
- 5 | With standard sample clamp and universal cassette clamp; compatible with plastic foil clamp.

Code	ZFP012
Section thickness	0.5-100 μm
Section thickness	De 0.5-2 μm in steps of 0.5 μm De 2-10 μm in steps of 1 μm De 10-20 μm in steps of 2 μm De 20-50 μm in steps of 5 μm De 50-100 μm in steps of 10 μm
Trimming section thickness	5-500 μm
Trimming section thickness setting value	De 5-100 μm in steps of 10 μm De 100-200 μm in steps of 20 μm De 200-500 μm in steps of 50 μm
Horizontal sample stroke	28 mm, motorized
Greenical sample stroke	60 mm
Sample retraction	12 μm
Accuracy	\pm 5%
Max.specimen size	50x45 mm
Blade orientation angle	0-14°
Sample orientation	8° (axis X-Y); rotatable 360°
Dimensions (HxWxL)	520x450x300 mm
Weight	30 Kg
Power	220 V / 50 Hz



Compatible accessories - NOT included with the equipment

	Code	Description
	ZFR012	Clamp f/plastic plate f/microtome semi-automatic



ZFP - Histology

Manual rotary microtome, advanced

**Nahita**

- 1| Robust and easy to clean.
- 2| Smoothly operated hand wheel with ergonomic handle and locking system.
- 3| Macro handwheel with lowered position for easy access.
- 4| Blade holder base for high and low profile disposable blades with lateral adjustment mechanism and folding finger guard.
- 5| Standard sample clamp and cassette clamp.

Code	ZFP011
Section thickness	0.5-60 μm
Cutting thickness adjustment	Of 0.5-2 μm m in steps of 0.5 μm Of 2-10 μm in steps of 1 μm Of 10-20 μm in steps of 2 μm Of 20-60 μm in steps of 5 μm
Accuracy	\pm 5%
Max.specimen size	50x45 mm
Ángulo orientación cuchilla	0-12°
Coarse feed	Manual
Horizontal sample stroke	35 mm
Greenical sample stroke	46 mm
Sample orientation	8° (axis X-Y); rotatable 360°
Dimensions (HxWxL)	300x570x270 mm
Weight	34 Kg

Compatible accessories - NOT included with the equipment



Code	Description
ZFR011	For making plastic sheet sections such as HDPE

Manual rotary microtome, basic

Nahita

- 1| Smoothly operated handwheel with internal locking system.
- 2| Micrometric screw on the base for sample feed.
- 3| Sample clamp with orientation system
- 4| Supplied with a 12 cm biplane blade.
- 5| The blade holder can be moved forward, backward or sideways

Code	ZFP010
Section thickness	1-25 μm
Min. adjustment	1 μm
Accuracy	\pm 10%
Max.specimen size	25x35 mm
Blade orientation angle	0-10°
Horizontal sample stroke	35 mm
Greenical sample stroke	46 mm
Dimensions (HxWxL)	350x350x270 mm
Weight	26 Kg

Compatible accessories - NOT included with the equipment



Code	Description
ZFR008	Blade holder for disposable blades Stainless steel; dim. 170x30x10 mm

▶ ZFP - Histology

▶ Histology bath for paraffin



- 1| Black tray for optimal location of the cuts.
- 2| Thermal edge for drying the samples

Code	ZFP008
Capacity	2 L (aprox.)
Temperature range	RT - 90 °C
Tank dimensions	24x18x5.4 cm
Total dimensions	34x35x10.5 cm



▶ Hot plate for histology



- 1| For drying the slides.

Code	ZFP009
Temperature range	RT - 90 °C
Tank dimensions	34x25cm
Total dimensions	34x25x10.5 cm



▶ Paraffin dispensing unit



- 1| Temperature regulation up to 99°C
- 2| Dispensing tap operated by an ON/OFF button. Programmable warm-up start and end time.

Code	ZFP013
Deposit capacity	5 L
Programmable parameters	Start and end time / temperature
Dimensions	410x440x360 mm
Power	220 V, 50 Hz



▶ Paraffin dispensing unit



- 1| Independent temperature control of the different areas of the equipment (working platform, paraffin tank, mould and cassette tanks and dispenser tap).
- 2| Granite work platform, equipped with lighting operated from the control panel.
- 3| Paraffin dispenser tap, manually or by means of a pedal (included).
- 4| Drainage system leads the surplus paraffin to a tank located under the working platform and easily removable for emptying.
- 5| Heating support with capacity for 6 tweezers.

Code	ZFP006
Working temperature	55°C / 70°C (in steps of 5°C)
Capacity	
Paraffin deposit	1 x 2 L
Cassettes and moulds deposit	2 x 1 L
Programmables parameters	Temperature and time (hour and day)
Dimensions	390 x 550 x 500 mm
Power	220 V, 50 Hz



ZFP - Histology

▶ Paraffin wax dispenser



- 1| External metal case coated with epoxy. Internal tank made of aluminium coated with black indelible
- 2| PTFE. Independently heated tap.

Code	ZFP501
Capacity	4L
Ø / Height	
Interior	20x15 cm
Exterior	28x30 cm
Power	400 W
Weight	5 Kg

▶ Cooling plate "Plac-Center"



- 1| External case made of AISI 304 stainless steel. Cooling plate made of black anodised aluminium.
- 2| Anti vibration, hermetically sealed CFC free compressor.

Code	ZFP502
Dimensions plate	30x15 cm
Exterior dime.	27x33x50
Power HP	1/3
Power	160 W
Weight	5 Kg

ZFR - Accessories

▶ Feather blades



- 1| In stainless steel, they are supplied in a 50 unit dispenser. Dimensions: 80x8 mm

- Blades not included with the microtomes.
- Compatible with all microtome models.
- For the basic model, it requires first the installation of the blade holder ref. ZFR008

Code	Model	Description
ZFR003	R35	For routine porpouses
ZFR004	S35	For extrathin sectioning
ZFR001	A35	For hard tissue sectioning
ZFR002	N35	Long duration blades

ZHB - Paddle blenders

▶ Paddle blender



- 1| In stainless steel for sample volumes between 3 and 400mL
- 2| Front door with glass window for sample control. Removable for easy cleaning.
- 3| Digital and touch screen.Homogenization time and frequency of beating. Memory for 8 samples.
- 4| Distance and tapping force adjustment mechanism.

Code	ZHB002
Timer	1 seg - 100 hours; continuous
Beating frequency	Programable 3' - 12 times per second
Power	200 W
Dimensions (HxWxL)	400x330x230 mm

ZHB - Paddle blenders

▶ Homogenizer



- 1 | LED display for speed control (2000 -2800 rpm)
- 2 | Stainless steel head SS316, with stirring capacity between 50 and 1500 mL

Code	ZHB003
Timer	1 a 999 min; continuous
Stirring capacity	50 - 1500 mL
Power	500 W
Power	220V, 50/60Hz



▶ Bead homogenizer for 24 samples



- 1 | It is a high performance mill perfect for homogenizing, grinding, milling or lysing any type of biological sample before extraction or molecular analysis.
- 2 | The wide variety of programmable cycles in speed and time, and of grinding beads allow to homogenize all kinds of samples: bacteria, yeasts, cells, animal and vegetable tissues, etc.
- 3 | Maximum capacity of 24 tubes to which a 3D movement is applied with variable speed and stirring time, producing highly efficient impacts between the sample and the grinding beads, allowing the cell contents to be obtained in a few seconds.

Code	ZHB004
Capacity	24 tubos 2 mL
Agitation speed range	0.80 – 7.50 m/s (0.05 m/s step increment) 490 – 4550 rpm (30 rpm step increment)
Run time	1 – 90 seconds
Number of cycles	1 - 10
Pause time	10 – 600 seconds (1 sec increment)
Memory	99 programs
Dimensions (WxDxH)	350 x 490 x315 mm
Weight	32.5 kg
Power supply	230 V AC / 5 Hz
Consumption	160 W



ZHV - Gas sampling bags

▶ Gas sampling bag



- 1 | Made of pure rubber. Cylindrical shape, with ebonite tube and key.
- 2 | Wall thickness: 5/10mm.

Code	Capacity	Dimensions	Diameter tubo
ZHV001	0,5 L	135x110mm	6x9 mm
ZHV002	1 L	165x130mm	6x9 mm
ZHV004	2 L	225x165mm	6x9 mm
ZHV005	5 L	290x230mm	6x9 mm
ZHV003*	10 L	355x280mm	8x12 mm

* these items are supplied under request



Code	Volume	Diameter
ZHV006*	1 L / 1000 cc	130 mm
ZHV007*	1,5 L / 1500 cc	150 mm
ZHV008*	2 L / 2000 cc	160 mm
ZHV009*	4 L / 4000 cc	200 mm
ZHV010*	5 L / 5000 cc	230 mm
ZHV011*	8 L / 8000 cc	250 mm

* these items are supplied under request



▶ ZHV - Gas sampling bags

▶ Gaz bag ,CHEMWARE



1 | Bags made either of Tedlar (polyvinyl difluorinated) with a thickness of about 0.2 mm, ideal for sampling non-corrosive liquids or gases: or of FEP (fluoro polymer) with a thickness of about 0.5 mm offering very good chemical resistance.

Code	Material	Capacity	Closure	Dimensions
ZHV012	FEP	1,2 L	Valve on /off	150 x 250 mm
ZHV013	FEP	0,5 L	Valve on /off	150 x 150 mm
ZHV014	FEP	4,7 L	Valve on /off	300 x 300 mm
ZHV015	FEP	50 L	Valve on /off	600 x 900 mm
ZHV021	Tedlar	1,6 L	Valve on /off	230 x 230 mm
ZHV022	Tedlar	3,8 L	Valve on /off	300 x 300 mm
ZHV023	Tedlar	8,1 L	Valve on /off	380 x 380 mm
ZHV027	Tedlar	1,6 L	Septum	230 x 230 mm
ZHV029	Tedlar	8,1 L	Septum	380 x 380 mm

▶ Distilling unit PRO-NITRO A



- 1 | With automatic "on-line" titration by colorimetry
- 2 | Compact steam generator with high temperature safety thermostat and over-pressure protection switch. Safety door that prevents distillation with the door open
- 3 | Detection of the presence of a digestion/distillation tube. This device prevents the dosage of NaOH in the absence of a tube
- 4 | Universal adapter for MACRO digestion/distillation tubes (Ø 42 mm) and MICRO (Ø 26 mm)
- 5 | Space saving in the Laboratory: H₂O and NaOH tanks, acidic Boric and HCl are inside the unit.
- 6 | Digestion/Distillation Tube and Collector Emptying System. Automatic stop of distillation
- 7 | Large 20 x 4 character LCD display. RS-232 output for printing results
- 8 | Stainless steel frame and front part in ABS plastic.
- 9 | Automatism: a single button to carry out the complete distillation cycle: closing and opening of the cooling water with distillation, dosing of Boric acid, dosing of NaOH after starting the distillation process, volume selection of NaOH and Boric acid, on-line distillate titration, autodetection of the end of distillation, special functions for focusing and special functions for maintenance.

Code	ZKB501
Measuring range	0,2 à 200 mg of nitrogen
Nitrogen recovery	>99,5%
Distillation speed	35 à 45 mL/minute
Coolant water consumption	80 à 100 litres/h
Steam generator water consumption	2,5 litres/h
Reservoir capacity	6 litres
NaOH reservoir capacity	2 litres
Boric Acid reservoir capacity	2 litres
Titrant reagent reservoir capacity	2 litres
Evaluation precision	1,5%
Minimum reagent dose	0,01 mL
Dimensions (HxWxD)	75x50x50 cm
Power	1800 W
Weight	38 kg

ZKB - Kjeldahl distiller

Distilling unit PRO-NITRO M



- 1| Steam distillation unit
- 2| Compact steam generator with high temperature safety thermostat and overpressure protection switch
- 3| Safety door that prevents distilling with the door open
- 4| Detecting the presence of the digestion/distillation tube. This device prevents the dosage of NaOH in the absence of a tube
- 5| Universal adaptor for MACRO digestion/distillation tubes (Ø 42 mm) and MICRO (Ø 26 mm)
- 6| Space saving in the laboratory: The H₂O and NaOH tanks are located inside the unit
- 7| Stainless steel frame and front part in ABS plastic
- 8| automatic titrator adapter kit (see accessories)
- 9| Automation :
 - Closing and opening of the cooling water with distillation
 - Dosing of NaOH after starting the distillation process
 - Selecting the volume of NaOH
 - Stop distillation after the programmed time.
- 10| Alarms:
 - Lack of water in the steam generator
 - Safety door open or without digestion/distillation tube
 - Due to high temperature in the steam generator
- 11| Delivered with a MACRO digestion tube Ø 42mm, a set of tubes and set of tanks.



Code: ZKB504 - Adapter kit distillation unit. Distillate and reagent entrance.



Control Panel

- 1| Water low indicator light.
- 2| Indicator light for safety door open or no tube.
- 3| Raised temperature indicator light.
- 4| Mains connection indicator light.
- 5| Distillation stop/start button and indicator light.
- 6| NaOH volume selection.

Code	ZKB502
Measuring range	0,2 à 200 mg of Kjeldahl Nitrogen.
Distillation time.	Programmable
Nitrogen recovery	>99,5%
Distillation speed	35 à 45 mL/minute
Typical distillation time	de 7 à 10 minutes
Water consumption rate	80 à 100 litres/h
Steam generator water consumption	2,5 litres/h
Water reservoir for steam generator	6 litres
NaOH reservoir	2 litres
Dimensions (HxLxp)	75x50x50 cm
Power	1800 W
Weight	30 kg

▶ ZKB - Kjeldahl distiller

▶ Distilling unit PRO-NITRO S



- 1| Steam distillation unit.
- 2| Compact steam generator with high temperature safety thermostat and overpressure protection switch.
- 3| safety door which prevents distillation with the door open.
- 4| Digestion/distillation tube presence detection. This device prevents the NaOH determination in the absence of a tube.
- 5| Universal adapter for MACRO digestion/distillation tubes (Ø 42 mm) and MICRO (Ø 26 mm)
- 6| Space saving in the laboratory: H₂O, NaOH and H₃BO₃ tanks are inside the unit.
- 7| Digestion/distillation tube draining system.
- 8| Stainless steel frame and ABS plastic front part
- 9| Green LED display with 2 digits for programming the distillation (addition of NaOH, Boric acid determination, distillation time and sample drain).
- 10| Adaptation kit for automatic titrator (see accessories).
- 11| Automation: one button to run the complete distillation cycle :
 - Dose of Boric acid.
 - Start of distillation.
 - Dosing of NaOH.
 - Stop distillation. (programmed time elapsed).
 - Sound indication of the end of the cycle.
- 12| Alarms:
 - Lack of water in the steam generator
 - Safety door open or without digestion/distillation tube
 - Due to high temperature in the steam generator
- 13| Delivered with one MACRO digestion tube Ø 42mm, set of tubes and set of tanks.

Code: ZKB504 - Adapter kit distillation unit. Distillate and reagent entrance.



- 1| Steam generator light indicator
- 2| Steam generator low water indicator light
- 3| Indicator light for safety door open or no tube present
- 4| Raised temperature indicator light
- 5| Keys and screen for selecting parameters
- 6| Manual or Automatic mode selection
- 7| Button for dosing Boric acid / START button in automatic mode
- 8| Button for dosing NaOH
- 9| Button for starting distillation in manual mode
- 10| Stop and sample drain key

Code	ZKB503
Measuring range	0,1 à 200 mg Nitrogen
Distillation time	Programmable
Nitrogen recovery	>99,5%
Distillation speed	35 à 45 mL/minute
Typical distillation time	de 7 à 10 minutes
Water consumption rate	80 à 100 litres/h
Steam generator water consumption	2,5 litres/h
Water reservoir for steam generator	6 litres
NaOH reservoir	2 litres
Dimensions (HxLxp)	75x50x50 cm
Power	1800 W
Weight	32 kg

ZKC - Kjeldahl digester

Digestion system BLOC DIGEST



- 1| Minimal sample manipulation
- 2| Uniform heating.
- 3| Capacity to store 20 programs of 4 steps for temperature and time.
- 4| RS-232 port for temperature register and digestion programation from a PC.
- 5| Gas collection system that does not require special water jet pumps.
- 6| Supplied complete with:
 - 1 metal heater block.
 - 1 programmer for time and temperature
 - 1 tube support rack
 - 1 gas collector
 - Digestion tubes.



Code	Type	Model	N° of positions
ZKC501	MACRO	Bloc Digest 6	6
ZKC502	MACRO	Bloc Digest 12	12
ZKC503	MICRO	Bloc Digest m 12	12
ZKC504	MICRO	Bloc Digest m 24	24

ZKD - Kjeldahl distiller, accessories

Metal heating block



- 1| For correct operation, it is essential to include the programmer. of RAT-2 time/temperature processes, as they must not be connected directly to the network..

Code	ZKD501	ZKD502	ZKD503
Type	MACRO	MACRO	MACRO
N.Positions	6	12	24
Ø Tube	42 mm	42 mm	42 mm
HxWxD	18x33x28 cm	18x39x33 cm	18x44x39 cm
Temperature	45 à 450 °C	45 à 450 °C	45 à 450 °C
Power	1500 W	2100W	2500W
Weight	18 Kg	25Kg	31 Kg

Code	ZKD504	ZKD505	ZKD506
Type	MICRO	MICRO	MICRO
N.Positions	12	24	40
Ø Tube	26 mm	26 mm	26 mm
HxWxD	18x33x28 cm	18x39x33 cm	18x44x39 cm
Temperature	45 à 450 °C	45 à 450 °C	45 à 450 °C
Power	1500 W	2100W	2500W
Weight	16 Kg	22Kg	27 Kg



Tube rack



- 1| Made of chemically treated dur-al, with handles and side plates to prevent heat loss.

Code	ZKD507	ZKD508	ZKD509	ZKD510	ZKD511
Type	MACRO	MACRO	MACRO	MICRO	MICRO
N.Positions	6	12	24	12	24
HxWxD (cm)	15x17,5x12,5	15x23x18	15x28,5x23,5	15x17,5x12,5	15x23x18



ZKD - Kjeldahl distiller, accessories

▶ Process programmer



- 1 | Temperature: from 45 to 450°C. Memory for 20 programs of 4 steps
- 2 | Maximum time per step: 600 minutes. Acoustic end of digestion program indication
- 3 | Two temperature slopes to be selected: Kjeldahl / D.C.O.
- 4 | Temperature sensor break alarm. Independent maximum safety temperature monitoring
- 5 | Bidirectional RS-232 serial connection, for temperature registers and editing of the digestion program with the RAT connected to a computer
- 6 | Control panel: allows you to create and run a program of digestion. During digestion, show the temperature of the block and the elapsed time. in line with the program

Code	Description
ZKD512	Software included

▶ Fume removal assemblies



- 1 | Consists of a multiple collector and a support
- 2 | Made of stainless steel, with borosilicate glass sensors

Code	ZKD513	ZKD514	ZKD515
Type	MACRO	MACRO	MACRO
N.Positions	6	12	20
HxWxD	15x18x12 cm	15x23x18 cm	15x29x23 cm

▶ Extraction system and neutralization of acid vapours



Réf - ZKD516

Réf - ZKD517



- 1 | Specially designed to absorb and neutralize vapours generated in the Kjeldahl digestion processes. Composed of a "Scrubber unit" that blocks the passage and neutralizes the condensed acids, and a re-circulating water pump that produces sufficient vacuum to aspirate the vapours.
- 2 | It is essential to put the "Scrubber" unit together with the neutralizer solution between the digestion block and the re-circulating pump.
- 3 | No water consumption. Without connection to mains water supply
- 4 | Avoids emissions of gaseous and water contaminants. Low noise level (< 65 dBA)
- 6 | Re-circulation pump made of chemically resistant materials

Code	ZKD516*	ZKD517
Model	"Scrubber" unit	Water recirculation
Dimensions	32x31x16 cm	44x39x28 cm
Vacuum level	-	0,98 bar
Pump rate	-	10l L/min.
Weight	2 Kg	10 kg

* Is supplied with 3 kg. of acid fume neutralizer.

▶ Digestion tubes



- 1 | MACRO series with 250 mL capacity. With 26 Ø and 300 mm height.

Code	ZKD518
Volume	250 mL
Ø x H	26 x 300 mm

ZKF - Extracterus

▶ Extractor DOSI-FIBER



- 1| Integral extraction and filtration. No sample transfer reduces the risk of sample loss, since the tubes, crucibles and filtre are transferred with the samples in place.
- 2| Excellent results due to reproducible operating conditions.
- 3| Easy sample handling due to the special crucible support stand.
- 4| Versatile and precise test procedure that allows the samples to be weighed at various stages in the extraction process.
- 5| Rugged external case with a "RILSAN" protective coating. All equipment components; condenser, valves, heater, compressed air valves and controls are all protected within the main case. Infrared heating elements.
- 6| Chauffage par infrarouges.

Control panel

- Mains illuminated ON/OFF switch.
- Switch for compressed air pump.
- Heating element with electronic control.

- 8| Comes complete with: crucible with a porosity P-2, Crucible support rack, heater lid and holder manipulator.

Code	ZKF501	ZKF502
Number of positions	4	6
Sample size	from 0,5 to 3g (usually 1g)	
Reproducibility	approx. $\pm 1\%$	
	for fibre level between 5 and 30%.	
Measuring range	from 0,1 to 100%	
Cooling water consumption	1 liter per minute	
HxWxD (exterior)	56x43x32	56x57x32
Power	1000W	1500W
Weight	19 kg	25 kg



▶ Extractor fat DET-GRAS N



Based on the Soxhlet methods by Randall, the DETGRAS- N extracts fats (and or other substances) from the sample by dissolving them in a solvent. If compared to the classic standard soxhlet method, a time saving of between 30-70% can be obtained due to a two stage extraction process and high speed in obtaining high temperatures.

- 1| Heating by protected electric heater, distributed throughout the radiator surface that provides homogeneous heating throughout the samples.
- 2| Electrical safety according to IP65.
- 3| Robust temperature control by a durable thermocouple.
- 4| Safety over temperature device.
- 5| Outer case made of solvents resistant epoxy coated steel.
- 6| Extractions can be completed using glass or cellulose thimbles.
- 7| Compatible with most common solvents: Petroleum ether. Diethyl ether, hexane, acetone acetonitrile etc.
- 8| Supplied complete with 2 sets of seals, adapters for different solvent types.

Code	ZKF503	ZKF504
Number of positions	2	6
Display	LCD display of 2 lines of 20 characters.	
Cellulose extraction cassette	Ø.ext.26 x 60 mm	
Reusable glass cartridge	Ø.ext.34 x 60 mm	
Working Temp.	90 à 240°C	
Solvent recovery	60 à 80%	
Volume of solvent (per sample)	up to 50 mL	
Memorable program	16	
Boiling extraction time	0 from 99 mn	
Extraction time "rinsing"	0 from 99 mn	
Solvent recovery time	0 from 99 mn	
HxWxD	70x45x40 cm	70x75x40 cm
Conso. H2O litres/mn	1	2
Power	200W	600W
Weight	19 kg	25 kg



ZKF - Extracterus

▶ Cold extraction unit EF-1425



Unit especially designed to perform cold extraction with acetone or the like solvents, for 6 simultaneous samples. Complements the DoSI-FIBER unit to determination of crude fibre

- 1 | With a 1 litre tank (for solvent recovery) with a tube of suction and 6 adapters to hold the filter crucibles code ZKG506.
- 2 | Need to add a vacuum tube or vacuum pump connected to the suction tube.
- 3 | Supplied with blind plugs to be able to work when the 6 crucibles are not in use. are not used, a 1-litre container and a suction tube
- 4 | stainless steel extraction unit. AISI 304, built in a single mould that allows quick and efficient cleaning.
- 5 | Support ramp and pencil holder, made of treated glass.

Code	ZKF505
HxWxD	45 x 20 x 34 cm
Weight	3 Kg

ZKH - Oenology

▶ Enological distiller DE-1626



- 1 | For alcoholic strength of wines, alcoholic strength of high strength spirits, acidity volatile and sorbic acid
- 2 | Special design for obtaining the distillate of wines and alcoholic beverages for determining the volumetric alcohol content, volatile acidity, sorbic acid and others.
- 3 | Capacity for distilling volumes up to 400 ml
- 4 | Automatic stop of the distillation: it finalizes the distillation before reaching the 200 ml of distillate. By using the ADD function, small amounts of quantities of distillate until the flask has been levelled, without adding water non-distillation
- 5 | Protected steam generator with safety system that includes:
 - Tube Ø 42 mm f/volatile acidity samples
 - Tube Ø 52 mm f/volatile acidity samples and 100 ml alcohol content
 - Tube Ø 80 mm for 200 ml samples for alcohol level
 - 200 ml volumetric flask for collecting the distillate
- 6 | Distillation speed: 30-40 ml/min - 200 ml distillate in 5/6 minutes
- 7 | Cooling water flow rate: 80-100 l/h.
- 8 | Steam generator water power: between 1 and 1.25 ml per ml of distillate obtained.

Code	ZKH501
HxWxD	90 x 30 x 30 cm
Power	2400W
Weight	20 Kg

▶ Metal.block heater "ENOBLOC"



1 | In order to use the enzyme reagents at full capacity, it is recommended to incorporate the thermostatic cell incubator at a fixed temperature of 35 °C.

Code	ZKH503
HxWxD	11x18x28 cm
Stability	± 0,5°C
Power	10W
Weight	2,4 Kg

ZKH - Oenology

▶ Photometer oenologic M-3000



- 1| Light source: long-lasting tungsten lamp.
- 2| Measuring cuvette: Universal holder for cuvettes with 10 mm optical pitch.
- 3| Minimum reading volume: 1 ml.
- 4| Alphanumeric L.C.D. display with 2 lines of 20 characters.
- 5| Calculation method: Transmission T %, Absorbance, Concentration with factor and Standard concentration, internal calibration and adjustment by software.
- 6| Connection for RS-232

Code	ZKH502
Integrated printer	No
Gamme spectrale	400 à 800 nm by interference filters
Spectral range	520 nm
Extended ABS Rank	De -0,3 à 3,5 o.D. in actual reading
Transmission reading	De 0 a 100 T %
Photometric exactitude	> 1%. @1.000 A
Photometric accuracy	± 1%. @1.000 A
Photometric stability	> à 0,004 A/h. @0.000 A.
Detector	Solid state (silica photodiode)
HxWxD	11x18x28 cm
Power	10 W
Weight	4,5 kg



▶ Distillateur oenologique 6 digital SUPER DEE

In accordance with the official method for the determination of alcoholic strength volume in wines, musts and spirit drinks (olv regulations) of acidity volatile.

- 1| External structure in stainless steel AISI 316
- 2| Plexiglas protection with vertical sliding
- 3| Ampoule with enlarged outlet nozzle, to be able to distil even dregs and puddles winemaking
- 4| Quick and functional vial hanging system (with one hand) that doesn't start if there's no vial.
- 5| Shower with flow regulation, for washing the bulb
- 6| Magnetic water inlet filter for blocking heavy particles Power supply: 220vAC - 15A max
- 7| Requirement for cooling water: T max = 20°C - press. min = 1.5 bar - min. flow = 5 litres/min.

Code	Description
ZKH508	Model without steam generator



ZKK - COD - DBO

▶ Complete set for C.O.D



- 1| Composed of a digestion block of 6, 12 or 20 stations, with a programmer process and handling accessories
- 2| Uniform and simultaneous heating of samples. Automatic programming of temperature and digestion time
- 3| Comes complete with: 1 Metal block, 1 time/temperature process timer, 1 rack with tube holder, 1 rack for cooling tubes, D.C.O. tubes with 29/32 running-in, Refrigerants for D.C.O.

Code	N° of positions
ZKK501	6
ZKK502	12
ZKK503	20



ZKK - COD - DBO

DBO Sensor-6 et Sensor 10



- 1 | Innovative and environmentally friendly (mercury-free) system for the determination of Biological Oxygen Demand (BOD5) by manometric technique.
- 2 | Immediate digital reading in mg/l, easy and accurate.
- 3 | 4 BOD measuring scales depending on the sample volume : 100 ml from 0 to 90 mg/l, 150 ml from 0 to 250 mg/l , 250 ml from 0 to 600 mg/l, 400 ml from 0 to 999 mg/l, (higher values after dilution of the sample)
- 4 | Visual alarm for out-of-range values and low batteries
- 5 | Power supply of the pressure sensors with 2 lithium batteries
- 6 | The equipment consists of a brewing unit with 6 or 10 places, 6/10 pressure sensors, 6/10 anhydride absorbers carbon, 6/10 amber bottles and 6/10 teflon magnets.
- 7 | Motor running continuously for uninterrupted operation or overheating that could affect sample results

Code	ZKK504	ZKK506
HxWxD	30x35x15 cm	30x43,2x16,5 cm
Power	2 W	2W
Weight	2,3 Kg	3 Kg

Thermo reactor cod ECO-8 et éco-16



- 1 | Dry thermoreactor for 14 tubes of 16 mm diameter and 2 decomposition tubes of 22 mm Ø.ref ZKK505 and Dry thermoreactor for 8 tubes of 16 mm diameter and 1 decomposition tube of 22 mm Ø.ref ZKK507
- 2 | Equipped with a microprocessor and a digital LCD display allowing the programming of temperatures and reaction times, in very wide ranges, with great precision and repeatability.

Code	ZKK505	ZKK507
Temperature range	RT- 160°C	70, 100, 120, 150 y 160 °C
Thermal stability	± 0,5°C à 150°C	
Programmation temp.	0 à 99 min ou infinit	30,60 ou 120 min
Time and temp.	Digital	Analogique
Power	550W	135W
Input	220-240V/50-60Hz	220-240V/50Hz
		110-120V/60Hz
HxWxD	11x17x27 cm	10x14x23 cm
Weight	3,8 Kg	2 Kg

ZKL - COD - DBO, accessoires

Condenser tube stand



Code	N° of positions
ZKL501	6
ZKL502	12
ZKL503	20

C.O.D. Tube



Code	Diameter	Frosted	Height
ZKL504	42 mm	29/32	300 mm

ZKN - Dairy products

► Milk analyzer, Lactoscan SP and Lactoscan SP-45, Lactoscan SP+ and Lactoscan SP+45



- 1| User friendly» > easy to use, to install, to calibrate
- 2| Compact design, portable equipment
- 3| Very little milk needed for analysis
- 4| Measurement accuracy settings can be made through the RS232 output
- 5| ESC POS printer support and 2 calibration samples
- 6| 9 measurement parameters
 - Fat: 0,01 – 45* % ($\pm 0,10$ %)
 - No-fat solids: 3 - 15 % ($\pm 0,15$ %)
 - Density: 1015 a 1040 kg/m³ ($\pm 0,3$ kg/m³)
 - Protein: 2 - 7 % ($\pm 0,15$ %)
 - Lactose: 0,01 - 6 % ($\pm 0,20$ %)
 - Added water: 0 - 70 % ($\pm 3,0$ %)
 - Milk temperature: 1 - 40°C (± 1 °C)
 - Freezing point: -0,4 a 1.5 °C ($\pm 0,001$ °C)
 - Salt: 0,4 - 4 % ($\pm 0,05$ %)
 - pH*: 0 a 14 ($\pm 0,05$ %)
 - Conductivity*: 3 a 14 (mS/cm) $\pm 0,05$ (mS/cm)

*for code ZKN007

- 7| The models LACATOSCAN SP+ and LACTOSCAN SP-45+ with probe pH, USB and conductivity measurement.

Code	ZKN001	ZKN007	ZKN005	ZKN006
Model	Lactoscan SP	Lactoscan SP-45	Lactoscan SP+	Lactoscan SP-45+
Cream	Up to 25%	Up to 45%	Up to 25%	Up to 45%
Room air temperature	10°C - 40°C			
Relative humidity	30 % - 80			
Input	100-240V AC / 50-60Hz			
Output	12 V DC			
Power	36-42W			
Dimensions (HxWxL)	175x175x150 mm			
Weight	< 1,5 kg			
USB	No	No	Yes	Yes
pH probe	No	No	Yes	Yes
Conductivity measurement	No	No	Yes	Yes

Different calibrations available from the factory

The equipment is calibrated at the factory, you must choose between the three calibrations available at the time of ordering. Several combinations of the different options are possible:

Calibration 1	Calibration 2	Calibration 3
<input type="checkbox"/> Cow	<input type="checkbox"/> Cow	<input type="checkbox"/> Cow
<input type="checkbox"/> Sheep	<input type="checkbox"/> Sheep	<input type="checkbox"/> Sheep
<input type="checkbox"/> Goat	<input type="checkbox"/> Goat	<input type="checkbox"/> Goat
<input type="checkbox"/> UHT	<input type="checkbox"/> UHT	<input type="checkbox"/> UHT
<input type="checkbox"/> Whey	<input type="checkbox"/> Whey	<input type="checkbox"/> Whey
<input type="checkbox"/> Mixed (50%cow-50%buffalo)	<input type="checkbox"/> Mixed (50%cow-50%buffalo)	<input type="checkbox"/> Mixed (50%cow-50%buffalo)
<input type="checkbox"/> Cream 25%*	<input type="checkbox"/> Cream 25%*	<input type="checkbox"/> Cream 25%*
<input type="checkbox"/> Cream 45%**	<input type="checkbox"/> Cream 45%**	<input type="checkbox"/> Cream 45%**
<input type="checkbox"/> Human milk	<input type="checkbox"/> Human milk	<input type="checkbox"/> Human milk
<input type="checkbox"/> Buffalo	<input type="checkbox"/> Buffalo	<input type="checkbox"/> Buffalo

* code - ZKN001 y ZKN005

** code - ZKN006 y ZKN007

► Lactoscan ccessories

Code	Description
ZKN002	Printer
ZKN003	Alkaline cleaning powder lactodally
ZKN004	Acid cleaning powder lactoweekly
ZKN008	MILK SECURITY TEST For neutralizers, hydrogen peroxide, urea
ZKN009	MILK SECURITY TEST for titratable acidity and pH
ZKN010	MILK SECURITY TEST for maltodextrine and glucose
ZKN011	Antibiotics detection test kits Eclipse 3G (96 tests/box)
ZKN012	Antibiotics detection test kits Twinsensor BT (96 tests/box) (β-lactam + Tetracycline detection)
ZKN013	Antibiotics detection test kits Beta Star S Combo (25 tests) (Assay of beta-lactam and tetracycline antibiotics in raw commingled milk)

ZKZ - Others

Digester apparatus for trichinella



1 | Kit specially designed to carry out the analysis by means of the method of digestion of collective samples with the use of a magnetic stirrer.



Code	Description
ZKZ001	Digester apparatus for trichinella

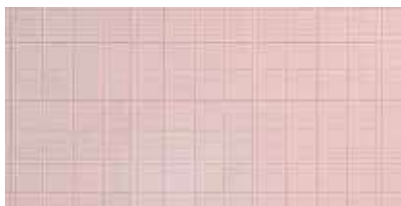
Composed of

- LBD001: Digital magnetic stirrer w/heating, 692/1
- PQB030: Separating funnel 2L, open, f/trichinella apparatus
- PQL006: Cylindrical funnel 50 mL, open, f/trichina apparatus
- ZKZ002: Sieve 100x40, 180 µm
- FCB023: Rectangular retort stand base blue 300x180mm
- FCB004: Retort ring w/shank closed Ø int. 105 mm Ø ext. 120 mm
- FCR002: Open retort ring w/shank Ø int. 65 mm, Ø ext. 80 mm
- FCG001: Clamp 2 prongs w/o bosshead
- FCP002: Double bosshead, painted, medium, 16 mm (3 uds)
- CBC025: Beaker low form, 3000 mL
- LDB011: PTFE magnetic stirrer bar, cylindrical, 55x8 mm
- DBG003: Measuring cylinder, glass, 25 ml
- DGJ010: Graduated pipette, 25ml/0.1ml
- MBJ009: Pipette pump, 25 mL red
- LDR010: Policemen stirring rods
- BRB012: Rodac dishes gridded B/20

The equipment is supplied in its standard configuration, but can be extended with the following items::

- KBC001: Precision balance 300g/0.01g, series 5162
- HDD011: Zoom stereomicroscope, binocular, Z series
- FMJ010: Dissecting forceps 1:2 teeth, 160 mm
- FMN011: Straight scissors sharp-sharp, 160 mm
- KKF002: Pocket timer 24 h, 1 memory
- DGJ005: Graduated pipette, 1ml/0.01ml
- DGJ008: Graduated pipette, 10ml/0.1ml

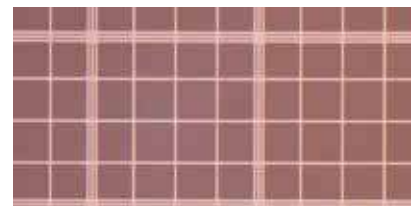
ZMB - Blood analysis



[1] STANDARD: The reticle is recorded on the background of the counting camera and under the microscope it appears as a pattern of dark lines.



[2] WITH CLAMPS: The same as the standard format but with two clamps that ensure an optimum grip of the camera cover.



[3] CLEAR LINES: The background of the camera has a rhodium coating (dark background) on which the reticle is recorded, achieving optimum contrast.

	Brand	Standard		With clamps Double	Clear lines Double
		Double	Simple		
Neubauer Improved	PRECISS EUROPE (CE)	ZMB027	ZMB030	ZMB028	ZMB029
Bürker	ZUZI			ZMB002	ZMB003
	PRECISS EUROPE (CE)	ZMB013	ZMB016		ZMB015
Fuchs-Rosenthal	ZUZI	ZMB004		ZMB005	ZMB006
	PRECISS EUROPE (CE)	ZMB017	ZMB020	ZMB018	ZMB019
Thoma	PRECISS EUROPE (CE)	ZMB031	ZMB034	ZMB032	ZMB033
Malassez	ZUZI				
	PRECISS EUROPE (CE)	ZMB021	ZMB024		

ZMB - Blood analysis

▶ Neubauer improved counting chamber



- 1 | Depth: 0.100 mm
- 2 | Volume in 1 mm²: 0.1 μL
- 3 | Minimum area: 0.0025 mm²
- 4 | They are mainly used for counting red blood cells, thrombocytes and leukocytes.
- 5 | With CE (IVD) marked.

Code	Format
ZMB027	[1] Standard, double net ruling dark-lined
ZMB028	[2] Double net ruling dark-lined
ZMB029	[3] Double net ruling bright-lined
ZMB030	[1] Standard, double net ruling dark-lined



▶ Burker counting chamber



- 1 | Depth: 0.100 mm
- 2 | Volume in 1 mm²: 0.1 μL
- 3 | Minimum area: 0.0025 mm²
- 4 | They are mainly used for counting red blood cells and thrombocytes.
- 5 | With CE (IVD) marked.

Code	Format
ZMB013	[1] Standard, double net ruling dark-lined
ZMB015	[3] Double net ruling bright-lined
ZMB016	[1] Standard, double net ruling dark-lined



▶ Counting chamber Fuchs-Rosenthal



- 1 | Depth: 0.200 mm
- 2 | Volume in 1 mm²: 0.2 μL
- 3 | Minimum area: 0.0625 mm²
- 4 | They are mainly used for counting cells in cerebrospinal fluid (CSF).
- 5 | With CE (IVD) marked.

Code	Format
ZMB017	[1] Standard, double net ruling dark-lined
ZMB018	[2] Double net ruling dark-lined
ZMB019	[3] Double net ruling bright-lined
ZMB020	[1] Standard, double net ruling dark-lined



▶ Thoma counting chamber



- 1 | Depth: 0.100 mm
- 2 | Volume in 1 mm²: 0.1 μL
- 3 | Minimum area: 0.0025 mm²
- 4 | They are mainly used for counting red blood cells and thrombocytes.
- 5 | With CE (IVD) marked.

Code	Format
ZMB031	[1] Standard, double net ruling dark-lined
ZMB032	[2] Double net ruling dark-lined
ZMB033	[3] Double net ruling bright-lined
ZMB034	[1] Standard, double net ruling dark-lined



▶ ZMB - Blood analysis

▶ Counting chamber Malassez



- 1 | Depth: 0.200 mm
- 2 | Volume in 1 mm²: 0.2 μL
- 3 | Minimum area: 0.0025 mm²
- 4 | They are mainly used for counting blood cells.
- 5 | With CE (IVD) marked.

Code	Format
ZMB021	[1] Standard, double net ruling dark-lined
ZMB024	[1] Standard, double net ruling dark-lined

▶ Coverglasses



- 1 | Made of soda glass, with frosted edges.
- 2 | 0.4 mm thickness.
- 3 | Supplied in boxes of 10 units.

Code	Dimensions
ZMB036	20x26 cm
ZMB037	22x22 cm
ZMB038	24x24 mm

▶ Microhaematocrit capillaries



- 1 | Disposable and easily sealed at one end.

Code	Volume	Length	Hepariniz.	Pack
ZMB047	75 μL	75 mm	No Box	200 uds.
ZMB048*	35 μL	40 mm	No Box	100 uds.
ZMB049*	35 μL	40 mm	Yes Box	100 uds.

▶ SEDIRATE system



- 1 | This system allows a fast and safe execution of the Erythrocyte sedimentation rate according to the Westergreen reference method.
- 2 | Composed of the following independent elements:

Code	Description	N° PCS
ZMB044	PP tubes, labelled, pipette included	800
ZMB045	PP holder with 10 numbered spaces	12
ZMB039	PE pipettes graduated from 0-180 mm	2400

ZMB - Blood analysis

Steril tube



1 | Made of polystyrene, screen printed and with screw cap.

Code	Capacity	Dimensions	Shape	Unit
ZMB501	10 mL	Ø16x100 mm	Round	50
ZMB502	10 mL	Ø16x100 mm	Round	200
ZMB503	13,5 mL	Ø16x110 mm	Conic	-
ZMB504	15 mL	Ø16x120 mm	Round	150
ZMB505	15 mL	Ø17x120 mm	Conic	150
ZMB506	15 mL	Ø17x120 mm	Cónico	-
ZMB507	50 mL	Ø30x115 mm	Conic flat	-
ZMB508	50 mL	Ø30x115 mm	Cónico	-



Tube AQUISEL



Code	mL blood	Content/Reactive	Type	C.Stopper
ZMB510	4 mL	EDTA K3	Liquid	Purple
ZMB512	1 mL	EDTA K3	Liquid	Purple
ZMB513	1 mL	Citrate	Liquid	Blue
ZMB514	4 mL	Lithium Héparine	Liquid	Green
ZMB515	1 mL	Lithium Héparine	Liquid	Green



AQUISEL Pipette A-2



Code	Units	Box Weight Kg	Box dimensions
ZMB523	500	1,5 Kg	27x14x11 cm



ZMD - Urine containers

Urine Bottles "Sabot" Model Man



1 | Ungraduated, made of soda glass.

Code	Volume
ZMD003	900mL



Bed pan, PP



Code	Description	Capacity
ZMD005	Autoclavable	2500 mL
ZMD004	For man with cap	1000 mL



ZMD - Urine containers

Urine tank



Kartell

- 1 | Made of polyethylene. 74mm mouth diameter.
- 2 | Graduated up to 2500 mm and with a plug for sampling.

Code	ZMD001*	ZMD002*
Description	Canister	Flask
Dimensions	114x243x160 mm (AxLxH)	130x250 mm (ØxH)
Graduation	250 mL	100 mL
Lote	30	30

* these items are supplied under request

Collector, SAN, with lid



VITLAB

Code	Description	Divisions	Pack
ZMD501	Graduation embossed	20 mL	6
ZMD502	Lid	-	6

Collector, PP, with white lid



VITLAB

- 1 | With embossed or blue graduation. Capacity 2 000 ml, division 20 mL. With sturdy and practical handle and a white lid in PC. Diameter: 150 mm, height: 220 mm.

Code	Designation	Pack
ZMD505	PP, embossed graduation	6
ZMD506	SAN, embossed graduation	6

ZMG - Tongue depressors



Kartell

- 1 | Made of Pexiglas.
- 2 | Extremely resistant.
- 3 | Autoclavable at 90°.

Code	Length
ZMG001	190 mm

ZMJ - Cups

▶ Drinking straw

Kartell

- 1 | Made of polypropylene. Autoclavable.
- 2 | Easily removable and washable.

Code	Length
ZMJ001	220 mm



▶ Invalid cup

Kartell

- 1 | Made of polypropylene. Autoclavable. Easily removable and washable.

Code	Capacity
ZMJ002	200 mL



ZMZ - Others

▶ Douche cans

Kartell

- 1 | Made of autoclavable polypropylene. They have flat back surface and suspension labels. Outer tube diameter: 9,90 mm.

Code	Capacity
ZMZ001	1000 mL
ZMZ002	1000 mL



▶ Measuring beaker, PP

VITLAB

- 1 | With embossed graduation. For non-medical use.

Code	Volume	Divisions	Ø	Height	Pack
ZMZ501	30 mL	1 mL	35 mm	42 mm	100
ZMZ502	Lid, PE, white	-	-	-	-



ZZC - Sealers

▶ Automatic bag sealer SEAL-COM 2



- 1 | Steel construction with stainless steel frame
- 2 | Heating time: 4 min. Sealing width: 10 mm
- 3 | Sealing speed: 6 m/min. Acoustic signal at the beginning of the cycle. "Manual or automatic" start switch

Code	ZZC501
HxWxD	14x48x26 cm
Power	400 W
Weight	13 Kg



Z ZC - Sealers

Vacuum sealer "Sealcom-V"



- 1| For bench and sturdy construction.
- 2| Made of stainless steel. AISI-304 and transparent cover.
- 3| Easy to use and program.
- 4| After closing the lid, the whole process is controlled automatically.
- 5| It works by means of an oil vacuum pump (type AV-30 or N32), with visible level. posterior and filler pipe.

Code: ZZC507- Sealcom-V maintenance kit: 2 heaters, 3 PTFE heater covers, 1 cover gasket.

Code: ZZC010 - Vacuum pump oil, 1 liter bottle (type AV-30)

Code	ZZC502
Seal width	10 mm
Max seal length	260mm
Pump rate	10 m ³ /h
Vacuum limit	-0,1 Mpa
HxWxD usable	5x28x39 cm
HxWxD exterior	36x34x52 cm
Power	370 W
Weight	35 Kg

Portable sealer "150-C"



- 1| For sealing plastics, PE, PP and thermoplastic material and in particular for cellophane, aluminium foil and kraft paper up to 0,6 mm thick.
- 2| In the form of pliers, easy to use by pressure. Parallel sealing on both sides of the bags.
- 3| Upper and lower resistors coated with PTFE that produce a hermetic seal in parallel lines. Selector switch for fixed sealing temperature at 120 °C or 180 °C.

Code	ZZC503
Seal width	14 mm
Maximum seal length	150 mm
Maximum plastic thickness	0,6 mm
HxWxD exterior	9x17x18 cm
Power	50 W
Weight	0,6 Kg

Sealer "305-C"



- 1| Manual cutting with sliding blade. Low power.
- 2| The resistor, activated by a microswitch, consumes power only when the sealing arm is lowered
- 3| Timer control to adjust the seal exposure time to suit different thicknesses of plastics.
- 4| A luminous led indicates the activation of the resistor by flashing during sealing, and an automatic beeper indicates the end of the sealing cycle.

Code: ZZC508 - Maintenance Kit 305-C: 2 heaters, 2 PTFE heater covers and a blade.

Code	ZZC504
Seal width	5 mm
Maximum seal length	300 mm
Maximum plastic thickness	0,4 mm
Seal time	from 0,2 to 1,3
HxWxD	19x48x8,2 cm
Power	1100 W
Weight	5,2 Kg

ZC - Sealers

▶ Sealer "455"



- 1| Ideal for packaging large samples.
- 2| The resistor, activated by a microswitch, consumes power only when the sealing pedal is down. Timer control for setting the sealing exposure time to adapt to different thicknesses of plastics.
- 3| An illuminated LED indicates the activation of the resistor during sealing and indicates the end of the process when it is switched off.
- 4| The PTFE resistor cover cloth is supplied with a spare roll-up cloth with adjusting screw, so that it can be replaced if necessary.

Code: ZC509 -Maintenance kit 455: 2 resistors and a fuse.

Code	ZC506
Seal width	5 mm
Maximum seal length	450 mm
Maximum plastic thickness	0,8 mm
Seal time	from 0,2 to 2,2
HxWxD	90x54x38 cm
Power	1000 W
Weight	29 Kg



ZF - Others

▶ Automatic bag sealer "LABOR-LAM"



- 1| Used for the classification and manipulation of blood images of; anti serum transparencies, albumin control, RH tests, colony counting, micro examination, colloidal rings, observation of precipitates, acid and oil filters etc.

Code: ZF502 - Table support. Pendulum type.

Code	ZF501
Temperature	30 to 35 °C
Screen	300x85 mm
External dimensions	320x130x55 mm
Power	8 W



general catalogue
AUXILAB
2021



B											
general use											
BBB001	6	BBH027	9	BBN020	12	BDD012	17	BGB003	23	BGD045	28
BBB002	6	BBH028	9	BBN021	12	BDD013	17	BGB005	23	BGD046	28
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BBB004	6	BBH030	9	BBN023	12	BDD015	17	BGB007	23	BGD048	28
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BBF009	7	BBK009	10	BBS502	14	BDL004	19	BGB074	29	BGD505	29
BBF010	7	BBK010	10	BBS503	14	BDL005	19	BGB075	29	BGD506	29
BBF011	7	BBK011	10	BBV010	14	BDL006	19	BGB076	29	BGD507	29
BBF012	7	BBL500	10	BBV011	14	BDL007	19	BGB502	25	BGD509	29
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		BBN016	12	BDD008	17	BDL046	22	BGD041	28	BGL010	31
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		BBN018	12	BDD010	17	BGB001	23	BGD043	28	BGL012	32
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BGL501	32	BGQ015	36	BJB031	43	BJD015	47	BJJ029	52	BMC005	62
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BGL510	32	BGQ024	37	BJB040	44	BJD026	48	BJL012	53	BMD001	64
BGL511	32	BGQ025	37	BJB041	44	BJD027	48	BJL013	53	BMD002	64
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BGL513	32	BGQ027	38	BJB043	44	BJD029	48	BJL015	53	BMD004	64
BGL514	32	BGQ028	38	BJB044	44	BJD030	48	BJL016	53	BMD005	64
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BGL516	33	BGQ030	38	BJB046	44	BJD033	48	BJL504	53	BMD007	64
BGL517	33	BGQ031	38	BJB047	44	BJD034	48	BJL505	53	BMD008	64
BGL518	33	BGQ032	38	BJB048	44	BJD035	48	BJL506	53	BMD009	64
BGL519	33	BGQ033	38	BJB049	44	BJD036	48	BJL507	53	BMD010	64
BGL520	33	BGQ034	38	BJB050	45	BJD037	48	BJL508	53	BMD011	64
BGL521	33	BGQ035	38	BJB051	45	BJD500	48	BJL509	54	BMD012	64
BGL522	33	BGQ036	36	BJB052	45	BJD501	48	BJL510	54	BMD013	64
BGL523	33	BGQ037	38	BJB053	45	BJD502	48	BJL511	54	BMD014	64
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BGL529	33	BGQ042	36	BJB057	45	BJD506	49	BJL515	55	BMD018	64
BGL534	33	BGQ043	38	BJB058	45	BJD507	48	BJN001	55	BMD019	64
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BGL543	33	BGQ045	39	BJB060	45	BJD509	48	BJN003	56	BMD021	64
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BGL526	33	BGQ051	38	BJB064	45	BJD513	49	BJN007	56	BMD025	64
BGL530	33	BGQ052	38	BJB065	45	BJD514	49	BJN008	56	BMD026	64
BGL535	33	BGQ053	39	BJB066	45	BJD515	49	BJN009	55	BMD027	64
BGL547	33	BGQ054	39	BJB067	45	BJD516	49	BJN500	57	BMD028	64
BGL548	33	BGQ055	39	BJB068	45	BJD517	49	BJN501	57	BMD030	64
BGL537	33	BGQ056	39	BJB069	45	BJD518	49	BJN502	57	BMD031	64
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BGL539	33	BGQ058	39	BJB501	45	BJD520	50	BJN504	57	BMD033	64
BGL540	33	BGQ059	39	BJB502	45	BJD521	50	BJN505	57	BMD034	64
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BMD069	63	BMF038	65	BMH044	67	BMJ007	69	BPB034	73	BPG506	79
BMD070	63	BMF039	65	BMH045	67	BMJ008	69	BPB035	73	BPG507	79
BMD071	63	BMF040	65	BMH046	67	BMK001	69	BPB036	74	BPG508	80
BMD072	63	BMF041	65	BMH047	67	BMK002	69	BPB037	74	BPG509	80
BMD073	63	BMF042	65	BMH048	67	BMK003	69	BPB038	74	BPG510	80
BMD078	63	BMF043	65	BMH049	67	BMK004	69	BPB039	74	BPG511	80
BMD079	63	BMF044	65	BMH050	67	BMK005	69	BPB040	74	BPG512	80
BMD080	63	BMF045	65	BMH051	67	BMK006	69	BPB041	74	BPJ001	81
BMD081	63	BMF046	65	BMH052	67	BMK007	69	BPB042	74	BPJ006	80
BMD082	63	BMF047	65	BMH053	67	BMK008	69	BPB043	73	BPJ011	81
BMD083	63	BMF048	65	BMH054	67	BMK009	69	BPB044	74	BPJ016	82
BMD084	63	BMF049	65	BMH055	67	BMK010	69	BPB045	72	BPJ021	81
BMD085	63	BMF050	65	BMH056	67	BMK011	69	BPB050	73	BPJ022	82
BMD086	63	BMF051	65	BMH057	67	BMK012	69	BPB051	73	BPJ023	82
BMD087	63	BMF052	65	BMH058	67	BMK013	69	BPB052	73	BPJ024	82
BMD088	63	BMF053	65	BMH059	67	BMK014	69	BPB053	73	BPJ025	82
BMD089	63	BMF054	65	BMH060	67	BMK015	69	BPB054	74	BPJ026	82
BMD090	63	BMF057	66	BMH061	67	BMK016	69	BPB511	74	BPJ027	82
BMD091	63	BMF058	66	BMH062	67	BML001	70	BPB512	74	BPJ028	82
BMD092	63	BMF059	66	BMH063	67	BML002	70	BPD001	75	BPJ029	81
BMD097	62	BMF060	66	BMH064	67	BML003	70	BPD002	75	BPJ030	81
BMD098	62	BMF061	66	BMH065	67	BML500	70	BPD003	75	BPJ031	81
BMD099	62	BMF062	66	BMH066	67	BML501	70	BPD004	75	BPJ032	81
BMD100	62	BMF063	66	BMH067	68	BML502	70	BPD005	75	BPJ033	81
BMD103	62	BMF064	66	BMH068	68	BML503	70	BPD006	75	BPJ034	81
BMD106	62	BMF065	66	BMH069	68	BML504	70	BPD006	75	BPJ035	81
BMD107	62	BMF066	66	BMH072	68	BML505	70	BPD007	75	BPJ036	81
BMD108	62	BMF067	66	BMH077	68	BML506	70	BPD008	75	BPJ037	81
BMD109	62	BMF068	66	BMH078	68	BMN001	71	BPD009	75	BPJ038	81
BMD110	62	BMF069	66	BMH079	68	BMN004	71	BPD010	75	BPJ040	82
BMD111	62	BMF070	66	BMH080	68	BMN005	71	BPD011	75	BPJ041	82
BMD112	62	BMF071	66	BMH081	68	BMN006	71	BPD013	75	BPJ042	82
BMD115	62	BMF072	66	BMH082	68	BMN007	71	BPD014	75	BPJ043	82
BMD116	63	BMF073	66	BMH083	68	BMN008	71	BPD015	75	BPJ500	82
BMD117	63	BMF077	65	BMH084	68	BMN009	71	BPD016	75	BPL001	83
BMD118	63	BMF078	65	BMH085	68	BMN010	71	BPD017	75	BPL003	83
BMD119	63	BMG002	66	BMH086	68	BMN011	71	BPD018	75	BPL004	83
BMD120	63	BMG003	66	BMH087	68	BMN012	71	BPD019	75	BPL005	84
BMD121	63	BMG004	66	BMH088	68	BMN013	71	BPD020	75	BPL006	84
BMD122	63	BMG005	66	BMH089	68	BMN014	71	BPD021	75	BPL007	83
BMD123	63	BMG006	66	BMH090	68	BMN016	71	BPD022	75	BPL008	83
BMD124	63	BMG007	66	BMH091	68	BMP001	71	BPD023	75	BPL009	83
BMD125	63	BMG008	66	BMH092	68	BMP002	71	BPD024	75	BPL010	83
BMD126	63	BMG009	66	BMH093	68	BMP003	71	BPD025	75	BPL011	83
BMD127	63	BMG010	66	BMH094	68	BMP004	71	BPD029	75	BPL012	85
BMD128	63	BMG011	66	BMH095	68	BMQ500	72	BPD030	75	BPL013	85
BMD129	63	BMG012	66	BMH096	68	BMQ501	72	BPD031	75	BPL014	86
BMD130	63	BMG013	66	BMH097	68	BMQ502	72	BPG001	76	BPL015	86
BMD132	63	BMH001	67	BMH098	68	BMQ503	72	BPG002	76	BPL016	86
BMD133	62	BMH002	67	BMH099	68	BMQ504	72	BPG003	76	BPL017	86
BMF001	65	BMH003	67	BMH100	68	BMQ505	72	BPG004	76	BPL018	85
BMF002	65	BMH004	67	BMH101	68	BMQ506	72	BPG005	76	BPL019	83
BMF003	65	BMH005	67	BMH102	68	BMQ507	72	BPG006	76	BPL020	84
BMF004	65	BMH006	67	BMH103	68	BMQ508	72	BPG007	76	BPL021	84
BMF005	65	BMH007	67	BMH104	68	BMQ509	72	BPG008	76	BPL022	83
BMF006	65	BMH008	67	BMH105	68	BPB001	72	BPG009	76	BPL023	85
BMF007	65	BMH009	67	BMH106	68	BPB002	72	BPG010	76	BPL024	85
BMF008	65	BMH010	67	BMH107	68	BPB003	73	BPG011	76	BPL025	85
BMF009	65	BMH011	67	BMH108	68	BPB005	72	BPG012	78	BPL026	86
BMF010	65	BMH012	67	BMH109	68	BPB006	73	BPG013	77	BPL028	85
BMF011	65	BMH013	67	BMH110	68	BPB008	73	BPG014	77	BPL039	84
BMF012	65	BMH014	67	BMH111	68	BPB009	73	BPG015	77	BPL040	84
BMF013	65	BMH015	67	BMH112	68	BPB011	73	BPG016	77	BPL041	86
BMF014	65	BMH016	67	BMH113	68	BPB012	73	BPG017	77	BPL043	86
BMF015	65	BMH017	67	BMH114	68	BPB013	73	BPG018	77	BPL044	86
BMF016	65	BMH018	66	BMH115	68	BPB014	73	BPG019	77	BPL045	86
BMF017	65	BMH019	66	BMH116	68	BPB015	73	BPG020	77	BRB001	87
BMF018	65	BMH020	66	BMH117	68	BPB016	73	BPG021	77	BRB003	87
BMF019	65	BMH021	66	BMH118	68	BPB017	73	BPG022	79	BRB004	87
BMF020	65	BMH022	66	BMH119	68	BPB018	74	BPG023	76	BRB005	87
BMF021	65	BMH023	66	BMH120	68	BPB019	74	BPG024	76	BRB006	87
BMF022	65	BMH024	66	BMH121	68	BPB020	74	BPG025	78	BRB007	88
BMF023	65	BMH025	66	BMH122	68	BPB021	72	BPG026	78	BRB008	88
BMF024	65	BMH026	66	BMH123	68	BPB022	72	BPG027	77	BRB009	88
BMF025	65	BMH027	66	BMH124	68	BPB023	72	BPG028	76	BRB010	88
BMF026	65	BMH028	66	BMH125	68	BPB024	72	BPG029	76	BRB011	88
BMF027	65	BMH029	66	BMH126	68	BPB025	72	BPG030	76	BRB012	88
BMF028	65	BMH030	66	BMH127	68	BPB026	72	BPG035	78	BRB013	88
BMF031	65	BMH037	67	BMH128	68	BPB027	72	BPG036	78	BRB014	88
BMF032	65	BMH038	67	BMJ001	69	BPB028	72	BPG037	78	BRB015	88
BMF033	65	BMH039	67	BMJ002	69	BPB029	72	BPG038	78	BRB016	88
BMF034	65	BMH040	67	BMJ003	69	BPB030	72	BPG502	79	BRB017	88
BMF035	65	BMH041	67	BMJ004	69	BPB031	72	BPG503	79	BRB018	88
BMF036	65	BMH042	67	BMJ005	69	BPB032	72	BPG504	79	BRB019	88
BMF037	65	BMH043	67	BMJ006	69	BPB033	73	BPG505	79	BRB020	88

BRB021	88	BTB028	96	BYF002	102	BYF517	107	CBC040	111	CBH007	115
BRB022	88	BTB029	96	BYF003	102	BYH001	107	CBC041	111	CBH008	115
BRB023	88	BTB030	96	BYF004	104	BYH002	107	CBC043	112	CBH009	115
BRB024	88	BTB031	94	BYF005	104	BYH003	107	CBD004	112	CBH010	115
BRB025	88	BTB032	94	BYF006	104	BYH004	107	CBD005	112	CBH011	115
BRB026	88	BTB033	94	BYF007	104	BYH005	107	CBD006	112	CBH012	115
BRB027	87	BTB034	95	BYF008	104	BYH006	107	CBD007	112	CBH013	115
BRB028	87	BTB035	95	BYF009	104	BYH007	107	CBD008	112	CBH014	115
BRB029	87	BTB036	96	BYF010	104	BYH008	107	CBD009	112	CBH015	115
BRB030	87	BTB037	94	BYF011	105	BYH009	107	CBD010	112	CBH016	115
BRB037	87	BTB038	94	BYF012	105	BYH010	107	CBD011	112	CBH017	115
BRB040	88	BTB039	95	BYF013	105	BYH011	107	CBD012	112	CBH018	115
BRB500	89	BTB040	95	BYF014	105	BYH500	107	CBD013	112	CBH019	115
BRB501	89	BTB500	97	BYF017	102	BYH501	108	CBD014	112	CBH020	115
BRB502	89	BTB501	97	BYF018	102	BYH502	108	CBD015	112	CBH021	115
BRB503	89	BTB502	97	BYF019	102	BYH503	108	CBF001	112	CBH022	115
BRB504	89	BTB503	97	BYF020	102	BYK001	108	CBF002	112	CBH023	115
BRB505	89	BTB504	97	BYF023	105			CBF003	112	CBH024	115
BRB506	89	BTB505	97	BYF024	103			CBF004	112	CBH025	115
BRB507	89	BTB506	97	BYF025	103			CBF005	113	CBH026	115
BRB508	89	BTB507	97	BYF026	103			CBF006	113	CBH027	115
BRB509	89	BTB508	97	BYF027	103			CBF007	113	CBH028	115
BRB510	89	BTB509	97	BYF028	103			CBF008	113	CBH029	115
BRB511	89	BTB510	97	BYF029	103			CBG001	113	CBH501	116
BRB512	89	BTB511	97	BYF030	103			CBG002	113	CBH502	116
BRB513	89	BTB512	97	BYF031	103			CBG003	113	CBH503	116
BRB514	89	BTB513	97	BYF032	103			CBG004	113	CBH504	116
BRB515	89	BTB514	98	BYF033	103			CBG005	113	CBH505	116
BRB516	89	BTB515	98	BYF034	103			CBG006	113	CBH506	116
BRB517	89	BTB516	98	BYF035	103			CBG007	113	CBH509	116
BRD001	89	BTB517	98	BYF036	103			CBG008	113	CBH510	116
BRD002	89	BTB518	98	BYF037	103			CBG009	113	CBH511	116
BRD003	89	BTB519	98	BYF038	103			CBG010	113	CBH512	116
BRD004	89	BTL001	99	BYF039	103			CBG011	113	CBH513	116
BRD005	89	BTL002	99	BYF040	103			CBG012	113	CBH514	116
BRD006	89	BTL003	99	BYF041	103			CBG013	113	CBH515	116
BRD007	89	BTL004	99	BYF042	103			CBG014	113	CBH516	116
BRD008	89	BTL005	99	BYF043	103			CBG015	113	CBH517	116
BRG004	89	BTL006	99	BYF044	103			CBG016	113	CBH518	116
BRG005	89	BTL007	99	BYF047	103			CBG017	113	CBH519	116
BRG006	91	BTL008	99	BYF048	103			CBG018	113	CBJ501	116
BRG007	91	BTL009	99	BYF049	103			CBG501	114	CBJ502	116
BRG009	91	BTL010	99	BYF050	103			CBG502	114	CBJ503	116
BRG010	91	BTL011	99	BYF051	103			CBG503	114	CBJ504	116
BRG011	91	BTL012	99	BYF052	103			CBG504	114	CBJ505	116
BRG012	91	BTL013	99	BYF053	103			CBG505	114	CBJ506	116
BRG013	92	BTL014	99	BYF054	103			CBG506	114	CBJ507	116
BRG501	92	BTL015	99	BYF055	103			CBG507	114	CBK001	116
BRG502	92	BTL016	99	BYF056	103			CBG508	114	CBK002	116
BRG503	92	BTL017	99	BYF057	103			CBG509	114	CBK003	116
BRG504	92	BTL018	99	BYF058	103			CBG510	114	CBK508	117
BRG505	92	BTL019	99	BYF059	103			CBG511	114	CBK509	117
BRG506	93	BTL020	99	BYF060	103			CBG512	114	CBK510	117
BRG507	93	BTL021	99	BYF061	103			CBG513	114	CBK511	117
BRG516	91	BTL022	99	BYF062	103			CBG514	114	CBK512	117
BRJ001	93	BTL023	99	BYF063	103			CBG515	114	CBK513	117
BRJ002	93	BTL024	99	BYF064	103			CBG516	114	CBK514	117
BRJ501	93	BTN001	100	BYF065	103			CBG517	114	CBK515	117
BTB001	94	BTN002	100	BYF066	103			CBG518	114	CBK516	117
BTB002	94	BTL500	100	BYF067	103			CBG519	114	CBK517	117
BTB003	94	BTL501	100	BYF068	103			CBG520	114	CBM001	117
BTB004	94	BTL502	100	BYF069	103			CBG521	114	CBM002	117
BTB005	94	BTL503	100	BYF070	103			CBG522	114	CBM003	117
BTB006	94	BTL504	100	BYF071	103			CBG523	114	CBM004	117
BTB007	94	BTL505	100	BYF072	103			CBG524	114	CBN001	118
BTB008	94	BTL506	100	BYF073	103			CBG525	114	CBN002	118
BTB009	94	BTL507	100	BYF074	103			CBG526	114	CBN003	118
BTB010	94	BTL508	100	BYF075	103			CBG527	114	CBN004	118
BTB011	95	BTL509	100	BYF076	103			CBG528	114	CBN005	118
BTB012	95	BTL511	100	BYF500	105			CBG529	114	CBP001	118
BTB013	95	BTQ001	101	BYF501	105			CBG530	114	CBP002	118
BTB014	95	BTQ500	101	BYF502	105			CBG531	114	CBP003	118
BTB015	95	BTQ501	101	BYF503	105			CBG532	114	CBP004	118
BTB016	95	BTS001	101	BYF504	105			CBG533	114	CBP005	118
BTB017	95	BTS002	101	BYF505	105			CBG534	114	CBP006	118
BTB018	95	BTS003	101	BYF506	105			CBG535	114	CBP007	118
BTB019	95	BTS004	101	BYF507	105			CBG550	114	CBP008	118
BTB020	95	BTS005	101	BYF508	105			CBG552	114	CBP009	118
BTB021	95	BTS006	101	BYF509	105			CBG559	114	CBP010	118
BTB022	95	BTS500	101	BYF511	106			CBH001	115	CBP501	118
BTB023	94	BTS501	101	BYF512	106			CBH002	115	CBP502	118
BTB024	96	BTS505	102	BYF513	106			CBH003	115	CBP503	118
BTB025	96	BTS506	102	BYF514	106			CBH004	115	CBP504	118
BTB026	96	BTS507	102	BYF515	107			CBH005	115	CBP505	118
BTB027	96	BYF001	102	BYF516	107			CBH006	115	CBP506	118

C

beakers, flasks
and other
containers

CBB001	110	CBG004	113	CBH504	116
CBB002	110	CBG005	113	CBH505	116
CBB003	110	CBG006	113	CBH506	116
CBB004	110	CBG007	113	CBH509	116
CBB005	110	CBG008	113	CBH510	116
CBB006	110	CBG009	113	CBH511	116
CBB007	110	CBG010	113	CBH512	116
CBB008	110	CBG011	113	CBH513	116
CBB009	110	CBG012	113	CBH514	116
CBB010	110	CBG013	113	CBH515	116
CBB011	110	CBG014	113	CBH516	116
CBB012	110	CBG015	113	CBH517	116
CBB013	110	CBG016	113	CBH518	116
CBB014	110	CBG017	113	CBH519	116
CBB015	110	CBG018	113	CBJ501	116
CBB016	110	CBG501	114	CBJ502	116
CBB017	110	CBG502	114	CBJ503	116
CBB018	110	CBG503	114	CBJ504	116
CBB019	110	CBG504	114	CBJ505	116
CBB020	110	CBG505	114	CBJ506	116
CBC001	110	CBG506	114	CBJ507	116
CBC002	110	CBG507	114	CBK001	116
CBC003	110	CBG508	114	CBK002	116
CBC005	111	CBG509	114	CBK003	116
CBC006	111	CBG510	114	CBK508	117
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CBC016	111	CBG520	114	CBM001	117
CBC017	111	CBG521	114	CBM002	117
CBC018	111	CBG522	114	CBM003	117
CBC019	111	CBG523	114	CBM004	117
CBC020	111	CBG524	114	CBN001	118
CBC021	111	CBG525	114	CBN002	118
CBC022	111	CBG526	114	CBN003	118
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CBC033	111	CBG559	114	CBP010	118
CBC034	111	CBH001	115	CBP501	118
CBC035	111	CBH002	115	CBP502	118
CBC036	111	CBH003	115	CBP503	118
CBC037	111	CBH004	115	CBP504	118
CBC038	111	CBH005	115	CBP505	118
CBC039	111	CBH006	115	CBP506	

CBP507	118	CDB024	122	CDJ005	127	CFB069	131	CGD018	136	CGD528	139
CBP508	118	CDB025	123	CDJ006	127	CFD001	131	CGD019	136	CGD529	139
CCB001	119	CDB026	123	CDJ007	127	CFD002	131	CGD020	136	CGD530	139
CCB002	119	CDB027	123	CDJ008	128	CFD003	131	CGD021	136	CGD531	139
CCB003	119	CDB028	123	CDJ009	128	CFD004	131	CGD022	136	CGD532	140
CCB004	119	CDB029	123	CDJ010	128	CFD005	131	CGD023	136	CGD533	140
CCB011	119	CDB030	123	CDJ011	128	CFD006	131	CGD024	136	CGD534	140
CCB012	119	CDB031	123	CDJ012	128	CFD006	131	CGD025	136	CGD535	140
CCB013	119	CDB032	123	CDJ013	128	CFD007	131	CGD026	136	CGD536	140
CCB014	119	CDB033	123	CDJ014	128	CFD008	131	CGD027	136	CGD537	140
CCB015	119	CDB035	123	CDJ015	128	CFD008	131	CGD028	136	CGG001	140
CCB016	119	CDB035	123	CDJ016	128	CFD009	131	CGD029	136	CGG002	140
CCB017	119	CDB036	123	CDJ017	128	CFD009	131	CGD030	136	CGG003	140
CCB018	119	CDB037	123	CDJ020	128	CFD011	131	CGD031	136	CGG004	140
CCB019	119	CDB038	123	CDJ021	128	CFD012	132	CGD032	136	CGG005	140
CCB020	119	CDB039	123	CDJ022	128	CFD013	132	CGD033	136	CGG006	140
CCB501	119	CDB040	123	CDJ029	127	CFD014	132	CGD034	136	CGG007	140
CCB502	119	CDB041	123	CDJ030	127	CFD015	132	CGD035	137	CGG008	140
CCB503	119	CDB042	123	CDJ031	127	CFD019	132	CGD036	137	CGG009	140
CCB504	119	CDB043	123	CDJ032	127	CFD020	132	CGD037	137	CGG010	140
CCB505	119	CDB044	123	CDJ034	128	CFD021	132	CGD038	137	CGG011	140
CCB506	119	CDB045	123	CDJ035	128	CFD022	132	CGD039	137	CGG012	140
CCB507	119	CDB047	124	CDJ036	128	CFD023	132	CGD040	137	CGG013	140
CCB508	119	CDB048	124	CDJ037	128	CFD024	132	CGD041	137	CGG014	141
CCB510	120	CDB049	124	CDM001	129	CFD025	132	CGD042	137	CGG015	141
CCB511	120	CDB050	124	CDM501	129	CFD026	132	CGD043	136	CGG016	141
CCB512	120	CDB051	122	CDM502	129	CFD028	132	CGD043	136	CGG017	141
CCB513	120	CDB062	124	CDM503	129	CFD029	132	CGD044	136	CGG018	141
CCB514	120	CDB063	124	CFB001	129	CFD030	132	CGD045	136	CGG019	141
CCD501	120	CDB064	124	CFB002	129	CFD031	132	CGD046	136	CGG020	141
CCD502	120	CDB065	124	CFB003	129	CFD032	132	CGD047	136	CGG021	141
CCD503	120	CDB066	124	CFB004	129	CFD033	132	CGD048	136	CGG022	141
CCD504	120	CDB067	124	CFB005	129	CFD034	132	CGD049	137	CGG023	141
CCD505	120	CDB068	124	CFB006	129	CFD035	132	CGD050	137	CGG024	141
CCD506	120	CDB069	124	CFB007	129	CFD036	132	CGD051	137	CGG025	141
CCD507	120	CDB501	124	CFB008	129	CFD038	132	CGD052	135	CGG026	141
CCD508	120	CDB502	124	CFB010	129	CFD039	132	CGD053	135	CGG027	141
CCD509	120	CDD001	125	CFB014	130	CFD040	132	CGD054	135	CGG028	141
CCD510	120	CDD002	125	CFB015	130	CFD041	132	CGD055	135	CGG029	141
CCD511	120	CDD003	125	CFB016	130	CFD042	132	CGD056	135	CGG030	141
CCD512	120	CDD004	125	CFB017	130	CFD043	132	CGD057	135	CGG031	141
CCD513	120	CDD005	125	CFB018	130	CFD044	132	CGD058	135	CGG032	141
CCD514	120	CDD006	125	CFB019	130	CFD045	132	CGD059	135	CGG033	141
CCD515	120	CDD501	125	CFB019	130	CFD046	132	CGD060	135	CGG053	141
CCD516	120	CDD502	125	CFB020	130	CFD048	132	CGD061	135	CGG054	141
CCD517	120	CDD503	125	CFB021	130	CFG041	133	CGD062	135	CGJ001	142
CCD518	120	CDD505	125	CFB022	130	CFG042	133	CGD063	135	CGJ002	142
CCF001	121	CDD510	125	CFB023	130	CFG043	133	CGD064	135	CGJ003	142
CCF002	121	CDD512	125	CFB024	130	CFG044	133	CGD065	137	CGJ004	142
CCF003	121	CDG001	126	CFB025	130	CFG046	133	CGD066	137	CGJ005	142
CCF004	121	CDG002	126	CFB026	130	CFG048	133	CGD067	137	CGJ006	142
CCF005	121	CDG003	126	CFB027	130	CFG049	133	CGD068	137	CGJ007	142
CCG501	121	CDG004	126	CFB033	130	CFG050	133	CGD069	137	CGJ008	142
CCG502	121	CDG005	126	CFB034	130	CFG053	133	CGD070	137	CGJ009	142
CCG503	121	CDG006	126	CFB035	130	CFG069	134	CGD071	138	CGJ010	142
CCG504	121	CDG007	126	CFB036	130	CFG070	134	CGD072	138	CGJ011	143
CCG505	121	CDG008	127	CFB037	130	CFG071	134	CGD073	138	CGJ012	143
CCG506	121	CDG009	127	CFB038	130	CFG072	134	CGD074	138	CGJ013	143
CCG507	121	CDG010	127	CFB039	130	CFG073	134	CGD075	138	CGJ014	143
CCJ001	121	CDG011	127	CFB040	131	CFG074	134	CGD076	138	CGJ015	143
CCL001	121	CDG012	127	CFB041	131	CFG075	134	CGD501	138	CGJ016	143
CCL002	121	CDG013	126	CFB042	131	CFG076	134	CGD502	138	CGJ017	143
CCL003	121	CDG014	126	CFB043	131	CFG001	134	CGD503	138	CGJ018	143
CCL004	121	CDG015	126	CFB044	131	CGB002	134	CGD504	138	CGJ019	143
CDB001	122	CDG016	126	CFB045	131	CGB003	134	CGD505	138	CGJ020	143
CDB002	122	CDG017	126	CFB046	131	CGB004	134	CGD506	138	CGJ021	143
CDB003	122	CDG018	126	CFB047	131	CGB005	134	CGD507	138	CGJ022	143
CDB005	122	CDG019	126	CFB049	131	CGB006	134	CGD508	138	CGJ023	143
CDB007	122	CDG020	126	CFB050	131	CGD001	134	CGD509	138	CGJ024	143
CDB008	122	CDG021	126	CFB051	131	CGD002	134	CGD510	138	CGJ025	143
CDB009	122	CDG022	127	CFB052	131	CGD003	134	CGD511	138	CGJ026	143
CDB010	122	CDG023	126	CFB053	131	CGD004	134	CGD512	139	CGJ027	144
CDB011	122	CDG024	126	CFB054	131	CGD005	134	CGD513	139	CGJ028	144
CDB012	122	CDG025	126	CFB055	131	CGD006	134	CGD515	139	CGJ029	144
CDB013	122	CDG026	126	CFB056	131	CGD007	135	CGD517	139	CGJ030	144
CDB014	122	CDG027	126	CFB057	131	CGD008	135	CGD518	139	CGJ031	144
CDB015	122	CDG028	127	CFB059	131	CGD009	135	CGD519	139	CGJ032	144
CDB016	122	CDG029	127	CFB060	131	CGD010	135	CGD520	139	CGJ033	142
CDB017	122	CDG030	127	CFB061	131	CGD011	135	CGD521	139	CGJ034	142
CDB018	122	CDG031	127	CFB062	131	CGD012	135	CGD522	139	CGJ035	142
CDB019	122	CDG032	127	CFB063	131	CGD013	135	CGD523	139	CGJ035	142
CDB020	122	CDJ001	127	CFB064	131	CGD014	135	CGD524	139	CGJ036	142
CDB021	122	CDJ002	127	CFB065	131	CGD015	135	CGD525	139	CGJ037	142
CDB022	122	CDJ003	127	CFB066	131	CGD016	136	CGD526	139	CGJ038	142
CDB023	122	CDJ004	127	CFB067	131	CGD017	136	CGD527	139	CGJ039	144

CGJ040	144	CGLO26	147	CJF011	152	CKB537	154	CKL012	159	CNB010	165
CGJ041	144	CGLO27	147	CJF012	152	CKB538	154	CKL013	159	CNB011	165
CGJ042	142	CGLO28	147	CJF501	153	CKD001	155	CKL014	159	CNB012	165
CGJ043	142	CGLO29	147	CJF502	153	CKD002	155	CKL015	159	CNB013	165
CGJ044	142	CGLO30	146	CJF503	153	CKD003	155	CKL016	159	CNB014	165
CGJ045	142	CGN001	148	CJF504	153	CKD004	155	CKL017	159	CNB015	165
CGJ046	142	CGN002	148	CJF505	153	CKD005	155	CKL501	159	CNB016	165
CGJ047	144	CGN003	148	CJF506	153	CKD006	155	CLB001	160	CNB017	165
CGJ048	144	CGN004	148	CJF507	153	CKD007	155	CLB002	160	CNB018	165
CGJ049	144	CGN005	148	CJF508	153	CKD008	155	CLB003	160	CNB019	165
CGJ050	144	CGN006	148	CJF509	153	CKD009	155	CLB004	160	CNB020	165
CGJ051	144	CGN007	148	CJF510	153	CKD010	155	CLB005	160	CNB501	166
CGJ052	143	CGN008	148	CKB001	154	CKD011	155	CLB006	160	CNB502	166
CGJ053	143	CGN009	148	CKB002	154	CKD012	155	CLD001	160	CNB503	166
CGJ054	143	CGN010	148	CKB003	154	CKD013	155	CLD003	160	CNB504	166
CGJ055	143	CGN011	149	CKB004	154	CKD014	155	CLD004	160	CNB505	166
CGJ058	144	CGN012	149	CKB005	154	CKD504	156	CLD005	160	CNB506	166
CGJ059	144	CGN013	149	CKB006	154	CKD505	156	CLD006	161	CNB507	166
CGJ060	144	CGQ001	149	CKB007	154	CKD506	156	CLD007	161	CNB508	166
CGJ061	144	CGQ002	149	CKB008	154	CKD507	156	CLD008	161	CNB509	166
CGJ062	144	CGQ003	149	CKB009	153	CKD508	156	CLD009	162	CNB510	166
CGJ063	144	CGQ004	149	CKB010	153	CKD509	156	CLD010	162	CNB511	166
CGJ064	145	CGQ005	149	CKB011	153	CKD510	156	CLD011	162	CNB512	166
CGJ065	145	CGQ006	149	CKB012	153	CKD511	156	CLD012	162	CNB513	166
CGJ066	145	CGQ007	149	CKB013	153	CKD512	156	CLD013	161	CNB514	166
CGJ067	145	CGQ008	149	CKB014	153	CKD513	156	CLD014	161	CNB515	166
CGJ068	145	CGQ009	149	CKB015	153	CKD514	156	CLD015	161	CNB516	166
CGJ069	145	CGQ501	149	CKB016	153	CKD515	156	CLD016	161	CNB517	166
CGJ501	145	CGQ502	149	CKB017	153	CKD516	156	CLD017	161	CNB518	166
CGJ502	145	CHB001	150	CKB018	153	CKD517	156	CLD018	161	CNB519	166
CGJ503	145	CHB002	150	CKB019	153	CKD518	156	CLD019	161	CNB520	166
CGJ504	145	CHB003	150	CKB020	153	CKD519	157	CLD501	162	CNB521	166
CGJ505	145	CHB004	150	CKB021	153	CKD520	157	CLD502	162	CNB522	166
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CGJ508	145	CHB007	150	CKB024	153	CKD523	157	CLD508	162	CNB525	166
CGJ509	145	CHB008	150	CKB025	153	CKD524	157	CLG001	163	CNB526	166
CGJ510	145	CHB021	150	CKB026	153	CKD525	157	CLG002	163	CNB527	166
CGJ511	145	CHB032	150	CKB027	153	CKD526	157	CLG003	163	CNB528	167
CGJ512	145	CHD501	150	CKB028	153	CKD527	157	CLG004	163	CNB529	167
CGJ513	145	CHD503	150	CKB029	153	CKD528	157	CLG005	163	CNB530	167
CGJ517	145	CHD504	150	CKB030	153	CKD529	157	CLG006	163	CNB531	167
CGJ518	145	CHG001	150	CKB031	153	CKD530	157	CLG007	163	CNB532	167
CGJ519	145	CHG002	150	CKB032	153	CKD531	157	CLG008	163	CNB533	167
CGJ520	145	CHG003	150	CKB033	154	CKD532	157	CLG009	163	CNB534	167
CGJ522	145	CHG004	150	CKB034	154	CKD533	157	CLG010	163	CNB535	167
CGJ523	145	CHG005	150	CKB035	154	CKD534	157	CLG011	163	CNB536	167
CGJ524	145	CHG006	150	CKB036	154	CKD535	157	CLG012	163	CNB537	167
CGJ525	145	CHG007	150	CKB037	154	CKD536	157	CLG013	163	CNB538	167
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CGJ527	146	CHG009	151	CKB502	154	CKD538	157	CMB002	164	CNB540	167
CGJ528	146	CHG010	151	CKB503	154	CKD539	157	CMB003	164	CNB541	167
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CGJ530	146	CHG012	151	CKB505	153	CKD541	157	CMB005	164	CNB543	167
CGJ531	146	CHG013	151	CKB506	153	CKD542	157	CMB006	164	CNC001	167
CGJ540	146	CHG014	151	CKB507	153	CKD543	157	CMB007	164	CNC002	167
CGJ550	146	CHG014	151	CKB508	153	CKD544	157	CMB008	164	CNC003	167
CGJ551	146	CHG016	151	CKB509	153	CKD545	157	CMB009	164	CNC004	167
CGJ552	146	CHG017	151	CKB510	153	CKD547	156	CMB010	164	CNC005	167
CGJ553	146	CHG018	151	CKB511	153	CKD548	156	CMB011	164	CNC006	167
CGJ554	146	CHG019	151	CKB512	153	CKD549	156	CMB012	164	CND001	167
CGJ555	146	CHG020	151	CKB513	153	CKD550	157	CMB013	164	CND002	167
CGJ556	146	CHG027	151	CKB514	153	CKD551	156	CMB014	164	CND003	167
CGJ557	146	CHG028	151	CKB515	153	CKD552	157	CMB015	164	CND004	167
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CGL003	147	CHG043	151	CKB517	153	CKD554	157	CMB017	164	CND006	167
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CGL005	147	CHG045	151	CKB519	153	CKD556	156	CMB019	164	CND008	167
CGL006	147	CHJ503	151	CKB520	153	CKG001	158	CMB020	164	CND009	167
CGL007	147	CHJ504	151	CKB521	153	CKG501	158	CMB021	164	CND010	167
CGL008	147	CJC001	152	CKB522	153	CKG502	158	CMB022	164	CND011	167
CGL009	147	CJC002	152	CKB523	153	CKG503	158	CMD001	164	CND012	167
CGL010	147	CJC003	152	CKB524	153	CKJ001	158	CMD014	164	CND501	168
CGL011	147	CJC004	152	CKB525	153	CKJ002	158	CMD010	165	CND502	168
CGL012	147	CJC005	152	CKB526	153	CKL001	158	CML011	165	CND503	168
CGL013	147	CJF001	152	CKB527	153	CKL002	158	CML010	165	CND504	168
CGL014	147	CJF002	152	CKB528	153	CKL003	158	CML012	165	CND505	168
CGL015	147	CJF003	152	CKB529	153	CKL004	159	CNB001	165	CND506	168
CGL019	148	CJF004	152	CKB530	153	CKL005	159	CNB002	165	CND507	168
CGL020	148	CJF005	152	CKB531	153	CKL006	159	CNB003	165	CND508	168
CGL021	148	CJF006	152	CKB532	153	CKL007	159	CNB004	165	CNF001	168
CGL022	148	CJF007	152	CKB533	154	CKL008	159	CNB005	165	CNF002	168
CGL023	147	CJF008	152	CKB534	154	CKL009	159	CNB006	165	CNF003	168
CGL024	147	CJF009	152	CKB535	154	CKL010	159	CNB007	165	CNF004	168
CGL025	147	CJF010	152	CKB536	154	CKL011	159	CNB008	165	CNF005	168
								CNB009	165	CNG001	169

CNG002	169	CNL017	172	CPC014	175	CPJ507	179	CPN003	183	DBB065	187
CNG003	169	CNL018	172	CPC015	175	CPJ508	179	CPN004	183	DBB067	187
CNG004	169	CNL019	172	CPC016	175	CPH001	180	CPN005	183	DBD501	188
CNG005	169	CNM001	172	CPC017	175	CPH002	180	CPN501	183	DBD502	188
CNG006	169	CNM002	172	CPD001	175	CPH003	180	CPN502	183	DBD503	188
CNG007	169	CNM003	172	CPD002	175	CPH004	180	CPN503	183	DBD504	188
CNG008	169	CNN001	172	CPD003	175	CPH005	180	CPN504	183	DBD505	188
CNG009	169	CNN002	172	CPD004	175	CPH006	180	CPN505	183	DBD506	188
CNG010	169	CNN003	172	CPD005	176	CPH007	180	CPN506	183	DBD507	188
CNG011	169	CNN004	172	CPD006	176	CPH008	180	CPN507	183	DBD508	188
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CNG014	169	CNN007	172	CPD009	176	CPH011	180	CPN510	184	DBD515	188
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CNG018	169	CNN011	172	CPD501	176	CPH015	180	CPN514	184	DBG003	189
CNG019	169	CNN012	172	CPD502	176	CPH016	180	CPN515	184	DBG004	189
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CNG022	169	CNN015	172	CPD505	176	CPH019	180			DBG007	189
CNG023	169	CNN027	172	CPD506	176	CPH020	180			DBG008	189
CNG024	169	CNN028	172	CPD507	176	CPH021	180			DBG009	189
CNG025	169	CNP001	173	CPD508	176	CPH022	180			DBG010	189
CNG026	169	CNP002	173	CPD509	176	CPH023	180			DBG011	189
CNG027	169	CNP003	173	CPD510	176	CPK001	180			DBG012	189
CNG027	169	CNP004	173	CPD511	176	CPK002	180			DBG013	189
CNG028	169	CNP005	173	CPD512	176	CPK003	180			DBG014	189
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CNG029	169	CNQ001	173	CPD514	176	CPK005	180			DBG016	189
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CNG033	169	CPB002	173	CPD518	176	CPK009	181			DBG020	190
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CNH002	170	CPB015	174	CPF011	177	CPK021	181			DBG032	190
CNH003	170	CPB501	174	CPF012	177	CPK022	181			DBG033	190
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CNL014	172	CPC011	175	CPJ504	179	CPL505	183			DBJ017	191
CNL015	172	CPC012	175	CPJ505	179	CPN001	183			DBJ018	191
CNL016	172	CPC013	175	CPJ506	179	CPN002	183			DBJ019	191

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DBJ022	191	DDB008	194	DDJ016	196	DGB005	200	DJJ006	202	DNJ003	208
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DDB005	194	DDJ013	196	DGB002	200	DJJ002	202	DND007	207	FCB525	216
						DJJ003	202	DNG004	208	FCB527	216

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FHJ643	250	FHJ732	252	FHJ818	253	FHL061	255	FHN081	257	FHN180	260
FHJ644	250	FHJ733	252	FHJ819	253	FHL062	255	FHN082	257	FHN181	260
FHJ645	250	FHJ734	252	FHJ820	253	FHL064	255	FHN083	257	FHN182	260
FHJ646	250	FHJ735	252	FHJ821	253	FHL065	255	FHN084	257	FHN183	260
FHJ647	250	FHJ736	252	FHJ822	253	FHL066	255	FHN085	257	FHN185	260
FHJ648	250	FHJ737	252	FHJ823	253	FHL067	255	FHN086	257	FHN186	260
FHJ649	249	FHJ738	252	FHJ824	253	FHL068	255	FHN087	257	FHN187	260
FHJ650	249	FHJ739	252	FHJ825	253	FHL069	255	FHN088	257	FHN188	260
FHJ651	249	FHJ740	252	FHJ826	253	FHL070	255	FHN089	257	FHN189	260
FHJ652	249	FHJ741	252	FHJ827	253	FHL071	255	FHN090	257	FHN190	260
FHJ653	249	FHJ742	252	FHJ828	253	FHL072	255	FHN091	258	FHN191	260
FHJ654	249	FHJ744	252	FHJ829	253	FHL073	255	FHN092	258	FHN192	260
FHJ655	249	FHJ745	252	FHJ830	253	FHL074	255	FHN093	258	FHN193	260
FHJ656	249	FHJ746	252	FHJ831	253	FHL075	255	FHN094	258	FHN194	260
FHJ657	249	FHJ747	252	FHJ832	253	FHL076	255	FHN096	258	FHN195	260
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FHJ662	249	FHJ752	252	FHJ837	253	FHL081	255	FHN102	258	FHN201	260
FHJ663	249	FHJ753	252	FHJ838	253	FHN006	256	FHN104	258	FHN202	260
FHJ664	249	FHJ754	252	FHJ839	253	FHN007	256	FHN105	258	FHN204	260
FHJ665	249	FHJ755	252	FHJ840	253	FHN008	256	FHN106	258	FHN205	260
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FHJ667	251	FHJ757	252	FHJ842	253	FHN010	256	FHN109	258	FHN208	260
FHJ668	251	FHJ758	252	FHL001	254	FHN011	256	FHN110	258	FHN209	262
FHJ669	251	FHJ759	252	FHL002	254	FHN012	256	FHN113	258	FHN210	262
FHJ670	251	FHJ760	252	FHL003	254	FHN013	256	FHN114	258	FHN211	262
FHJ671	251	FHJ761	252	FHL004	254	FHN015	256	FHN115	258	FHN212	262
FHJ672	251	FHJ762	252	FHL005	254	FHN017	256	FHN116	258	FHN213	262
FHJ673	251	FHJ763	252	FHL006	254	FHN018	256	FHN117	258	FHN214	262
FHJ674	251	FHJ764	252	FHL007	254	FHN021	256	FHN117	258	FHN215	262
FHJ675	251	FHJ765	252	FHL008	254	FHN022	256	FHN118	258	FHN216	262
FHJ676	251	FHJ766	252	FHL009	254	FHN023	256	FHN120	258	FHN218	261
FHJ677	251	FHJ767	252	FHL010	254	FHN025	256	FHN121	258	FHN219	261
FHJ678	251	FHJ768	252	FHL011	254	FHN026	256	FHN122	258	FHN220	261
FHJ679	251	FHJ769	252	FHL012	254	FHN027	256	FHN123	258	FHN221	261
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FHJ682	251	FHJ772	252	FHL015	254	FHN030	256	FHN126	258	FHN224	261
FHJ683	251	FHJ773	252	FHL016	254	FHN031	256	FHN127	258	FHN225	261
FHJ684	251	FHJ774	252	FHL017	254	FHN032	256	FHN128	258	FHN226	261
FHJ685	251	FHJ775	252	FHL018	254	FHN033	256	FHN129	258	FHN227	261

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FHN239	261	FHN330	263	FHN494	266	FHQ012	267	FHS078	268	FHX049	270
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FHN242	261	FHN333	263	FHN497	266	FHQ015	267	FHV001	270	FKB006	272
FHN243	261	FHN334	263	FHN498	266	FHQ016	267	FHV002	270	FKB007	272
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FHN248	261	FHN339	263	FHN513	266	FHQ022	267	FHV007	270	FKB011	272
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HBP015	331	HDK009	335	HJK501	346	HPH003	356	JBD008	368	JBR013	376
HBP016	331	HDK012	335	HJK502	346	HPH005	356	JBD009	368	JBR014	376
HBP022	331	HDK013	335	HJK503	346	HPH006	356	JBD506	369	JBR501	376
HBP023	331	HDK014	335	HJK504	346	HPK001	357	JBD512	369	JBR502	376
HBP024	331	HDK015	335	HJK505	346	HPK002	357	JBD513	369	JBR503	376
HBP025	331	HDK017	335	HJK506	346	HPK005	357	JBD515	370	JBR504	376
HBP026	331	HDK019	335	HJK507	346	HPM001	357	JBD516	370	JDB001	376
HBP027	331	HDK020	335	HJK508	346	HPM002	357	JBD517	370	JDB501	376
HBQ001	332	HDK021	335	HJL001	347	HPM003	357	JBD518	371	JDB502	376
HBQ002	332	HDK022	335	HJL002	347	HPP001	358	JBD530	371	JDB503	377
HBQ003	332	HDK025	335	HJL003	347	HPP002	358	JBD531	371	JDB504	377
HBQ004	332	HDK501	335	HJL004	347	HPP003	359	JBD532	371	JDB505	377
HBQ005	332	HGB004	335	HJL005	347	HPP004	358	JBD533	371	JDB506	377
HBQ006	332	HGB005	335	HJL006	347	HPP005	358	JBD534	371	JDB507	377
HBQ007	332	HGF001	336	HJL007	347	HPP006	358	JBD535	371	JDB508	377
HBQ008	332	HGF002	336	HJL008	347	HPP007	358	JBD540	372	JDB509	377
HBQ009	332	HGG001	336	HJL009	347	HPP008	358	JBD541	372	JDB510	377
HBQ010	332	HGG002	336	HJL010	347	HPP009	358	JBD542	372	JDB511	378
HBQ011	332	HGG003	336	HJL011	347	HPP501	359	JBD543	372	JDB512	378
HBQ012	332	HGG004	337	HJL012	348	HPP502	359	JBD544	372	JDB513	378
HBQ013	332	HJB001	337	HJL013	348	HRB010	361	JBD545	372	JDB514	378
HBQ014	332	HJB002	337	HJL014	348	HRB011	361	JBG001	372	JDB515	378
HBR001	332	HJB003	337	HJL015	348	HRB501	361	JBG002	372	JDB516	378
HBR002	332	HJB004	338	HJL501	348	HRB502	361	JBG003	372	JDB517	378
HBR003	332	HJB005	338	HJL502	348	HRB503	361	JBG004	372	JDB518	378
HBR004	332	HJB006	338	HJM002	349	HRB504	361	JBG005	372	JDB519	378
HBR005	332	HJB501	338	HJM004	348	HRB505	361	JBG006	372	JDB520	378
HBR006	332	HJB502	339	HJM005	348	HRD002	362	JBG007	372	JDB521	379
HBR008	332	HJB503	339	HJM006	349	HRD501	362	JBG501	372	JDD001	379
HBR009	332	HJB504	339	HJM007	348	HRD502	361	JBG503	372	JDD002	379
HBR010	332	HJB505	339	HJM008	349			JBG504	372	JDD003	379
HBR011	332	HJD001	340	HJM009	349			JBG507	372	JDD004	379
HBR012	332	HJD002	340	HJM010	348			JBG508	372	JDD005	379
HBR013	332	HJD003	340	HJM011	349			JBG509	372	JDD006	379
HBR014	332	HJD004	341	HJM012	349			JBG510	372	JDD505	380
HBR015	332	HJD005	341	HJM501	349			JBG511	372	JDD506	380
HBR016	332	HJD006	341	HJM502	349			JBG512	372	JDD507	380
HBR017	332	HJD007	342	HJM503	350			JBG513	372	JDD508	380
HBR021	332	HJD501	342	HMB002	350			JBG514	372	JDD511	380
HBR022	332	HJD502	343	HMB003	350	JBB001	364	JBG515	372	JDD512	380
HBR023	332	HJD503	342	HMB004	350	JBB002	364	JBG516	372	JDD513	381
HBR024	332	HJG001	343	HMB005	351	JBB003	364	JBG517	372	JDD514	381
HBR025	332	HJG003	343	HMF001	351	JBB004	364	JBG518	372	JDD515	381
HBR027	332	HJG004	343	HMF002	351	JBB005	364	JBG519	372	JDD516	381
HBR028	332	HJG005	343	HMF003	351	JBB504	364	JBG520	372	JDD517	381
HDB002	333	HJG007	344	HMF004	351	JBB509	364	JBG521	372	JDD518	381
HDB005	333	HJH001	344	HMF005	351	JBB510	364	JBG522	372	JDD522	382
HDD011	333	HJH002	344	HMF006	351	JBB511	364	JBG523	372	JDD531	380
HDD012	333	HJH003	344	HMG001	351	JBB515	365	JBG524	372	JDD532	380
HDG001	334	HJH004	344	HMG002	351	JBB516	365	JBG525	372	JDD533	380
HDG002	334	HJH005	344	HMG003	351	JBB517	365	JBG526	372	JDD534	380
HDG003	334	HJH007	344	HMG004	351	JBB519	365	JB501	373	JDD535	380
HDG004	334	HJH008	344	HMG005	351	JBB520	365	JB502	373	JDD536	380
HDG005	334	HJH009	344	HMG006	351	JBB521	365	JB503	373	JDD537	380
HDG006	334	HJH010	344	HPB001	351	JBB522	365	JB504	373	JDG501	382
HDG010	334	HJH017	344	HPB002	352	JBB523	365	JB505	374	JDG502	382
HDG011	334	HJH018	344	HPB501	352	JBB530	365	JBM501	374	JDG503	382
HDG012	334	HJH019	344	HPB502	352	JBB536	366	JBM502	374	JDG504	380
HDG013	334	HJH020	344	HPD001	353	JBB537	366	JBP001	374	JDG505	382
HDG014	334	HJH021	344	HPD002	353	JBB538	366	JBP002	374	JDG506	382
HDG015	334	HJH022	344	HPD003	353	JBB539	366	JBP003	374	JDG507	382
HDG016	334	HJH023	344	HPD004	354	JBB540	366	JBP004	374	JDG508	382
HDG017	334	HJH024	344	HPD005	354	JBB541	366	JBP005	374	JDG509	382
HDG018	334	HJH025	344	HPD006	354	JBB542	366	JBP501	375	JDG510	382
HDH001	334	HJH027	344	HPD007	354	JBB543	366	JBP502	375	JDG511	378
HDH002	334	HJH028	344	HPD008	355	JBB545	366	JBP503	375	JDG512	382
HDH003	334	HJH029	344	HPD009	355	JBB546	367	JBP504	375	JDG514	377
HDH004	334	HJH030	344	HPD010	355	JBB547	367	JBP505	375	JDG516	382
HDH005	334	HJK001	345	HPD011	355	JBB560	367	JBP506	375	JDG517	382
HDH006	334	HJK002	345	HPD012	353	JBB561	367	JBP507	375	JDG518	382
HDH007	334	HJK003	345	HPD013	353	JBB562	367	JBP508	375	JDG519	382
HDH008	334	HJK004	345	HPD014	353	JBB563	367	JBP509	375	JDG520	382

J
heating
cooling

JDG521	382	JGD001	389	JJG508	396	KBN025	407	KBT014	411	KGD006	419
JDG522	382	JGD002	389	JJG509	396	KBN026	407	KBT015	411	KGD501	420
JDG523	377	JGD003	389	JZB501	396	KBN027	407	KBT016	411	KGD502	420
JDG524	382	JGD004	389	JZB502	396	KBN028	407	KBV001	411	KGD503	421
JDG525	382	JGD005	389	JZB503	396	KBN029	407	KBV002	411	KGD504	420
JDG527	383	JGD006	389	JZB504	396	KBN030	406	KBV003	411	KGG001	421
JDG528	383	JGD007	389	JZB505	396	KBN031	406	KBV004	411	KGG002	421
JDG529	380	JGD008	389	JZB506	396	KBN032	406	KBV005	411	KGG003	421
JDG530	383	JGD501	390	JZB507	396	KBN033	406	KBV006	411	KGG004	421
JDG531	382	JGD502	390	JZB508	397	KBN034	406	KBV007	411	KGG005	421
JDG532	382	JGD503	390	JZB509	397	KBN035	406	KBV008	411	KJB003	421
JDG533	382	JGD504	390	JZB510	397	KBN036	406	KBV009	411	KJB004	421
JDG534	382	JGD505	390	JZD504	397	KBN037	406	KBV010	411	KJB009	421
JDL501	381	JGD506	390	JZD505	398	KBN038	406	KBV011	411	KJB010	421
JDL502	381	JGD507	390	JZD506	398	KBN039	408	KBV012	411	KJB011	421
JDN503	383	JGD508	390			KBN040	408	KBV013	411	KJB012	421
JDN504	381	JGD509	390			KBN041	408	KBV014	411	KJB013	421
JDN505	381	JGD510	390			KBN042	408	KBV015	411	KJB014	421
JDN506	383	JGD511	390			KBN043	408	KBV016	411	KJB017	421
JDN507	384	JGD512	390			KBN044	408	KBW001	412	KJB018	421
JDN508	384	JGD513	390			KBN045	408	KBW002	412	KJB019	421
JDN509	384	JGD514	390			KBN046	408	KBW003	412	KJB020	421
JDQ501	384	JGD515	390			KBN047	408	KBW004	412	KJB021	421
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JDQ505	384	JGD519	390			KBN059	406	KBW008	412	KJD002	422
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JDQ513	385	JGD527	391			KBN516	407	KBW016	412	KJD503	422
JDS001	385	JGG505	391			KBN517	407	KBW017	412	KJD504	422
JDS002	386	JGG506	391			KBN518	407	KBW018	412	KJJ004	422
JDS003	386	JGG507	391			KBN519	434	KBW019	412	KJJ502	423
JDS004	386	JGG508	391			KBN520	434	KDB002	412	KJM002	423
JDS005	387	JGJ501	391			KBN521	434	KDB003	412	KJM006	423
JDS501	387	JGJ502	391			KBN522	434	KDB004	413	KJM014	423
JDS502	387	JGJ503	391			KBP003	408	KDB005	413	KJM015	423
JDS503	387	JGJ505	391			KBP004	408	KDB006	413	KJM016	423
JDS504	388	JGJ506	392			KBP005	408	KDB007	413	KJM017	423
JDS505	388	JGJ507	392			KBP006	408	KDB008	413	KJM019	424
JDS506	388	JGJ508	392			KBP007	408	KDB009	413	KJM020	424
JDS508	389	JGJ509	392			KBP008	408	KDD001	413	KJP001	424
JDV001	385	JGJ510	392			KBQ003	408	KDD002	414	KJP002	424
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JDV003	385	JGJ512	392			KBQ005	409	KDD006	414	KJP005	424
JDV004	385	JGJ513	392			KBQ006	409	KDD007	414	KJR002	424
JDV005	385	JGJ514	393			KBQ007	409	KDD008	415	KJR003	425
JDV006	385	JGJ515	393			KBR001	409	KDD009	415	KJR006	425
JDV007	385	JGJ516	391			KBR002	410	KDG005	415	KKB001	425
JDV008	386	JGL501	393			KBR003	410	KDG020	416	KKB005	425
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JDV016	386	JGL509	393			KBS007	410	KDG028	416	KL002	426
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JDV507	388	JJB515	395			KBS014	410	KDG035	416	KL009	426
JDV508	389	JJB518	395			KBS015	410	KDG036	416	KL010	426
JDV509	388	JJB519	395			KBS016	410	KDG037	416	KL011	426
JDV510	388	JJD501	393			KBT001	411	KDG038	416	KL012	426
JDV511	388	JJD502	393			KBT002	411	KDJ002	417	KL013	426
JDV512	388	JJD503	393			KBT003	411	KDJ003	417	KL014	426
JDV513	388	JJD504	394			KBT004	411	KDJ005	417	KL015	426
JDV514	388	JJD505	394			KBT005	411	KDJ006	417	KL016	426
JGB001	389	JJD507	394			KBT006	411	KDJ007	417	KL017	426
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K
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KLD004	427	KLJ018	429	KZD008	437	LDB010	450	LDG005	452	LDR005	458
KLD005	427	KLJ019	429	KZD016	438	LDB011	450	LDG006	452	LDR007	458
KLD006	427	KLJ020	428	KZD017	438	LDB012	450	LDG007	452	LDR008	458
KLD007	427	KLJ021	429	KZD018	438	LDB013	450	LDG008	452	LDR009	458
KLD008	427	KLJ022	429	KZD019	438	LDB014	450	LDG009	452	LDR010	458
KLD009	427	KLL001	429	KZD020	438	LDB015	450	LDG010	452	LGB001	459
KLD010	427	KLL002	430	KZD021	438	LDB016	450	LDG011	452	LGB002	459
KLD011	427	KLL003	429	KZD022	438	LDB017	450	LDG012	452	LGB003	460
KLD012	427	KLL004	429	KZF001	438	LDB018	450	LDG013	452	LGB500	460
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KLD015	427	KLNO06	430			LDB021	450	LDG016	452	LGB503	460
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KLGO01	428	KLNO12	430			LDB023	450	LDG502	453	LGB505	461
KLGO02	428	KLNO13	430			LDB024	450	LDG503	453	LGB506	461
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KLGO05	428	KLP001	430			LDB027	450	LDG506	453	LGD500	461
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KLGO11	428	KLP007	430			LDB502	450	LDG512	453	LGG003	459
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KLGO22	428	KLP014	430			LDB509	450	LDJ003	453	LGG010	462
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KLGO24	428	KLQ002	431			LDB511	450	LDJ005	453	LGG012	462
KLGO25	428	KLQ003	431			LDB512	450	LDJ006	453	LGG013	463
KLGO26	428	KLQ004	431			LDB513	450	LDJ502	453	LGG014	463
KLGO27	428	KLQ005	431			LDB514	450	LDJ503	453	LGG015	463
KLGO28	428	KLQ006	431			LDB515	451	LDJ504	453	LGG016	463
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KLGO42	427	KNB503	433			LDD001	451	LDM507	454	LJB502	465
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KLJ002	429	KNG011	434			LDD502	452	LDP504	456	LJJ500	467
KLJ003	429	KNG012	434			LDD503	452	LDP505	456	LJJ501	467
KLJ004	429	KNG013	434			LDD504	452	LDP506	457	LJJ502	467
KLJ005	429	KNG014	434			LDD505	452	LDP507	457	LJJ503	467
KLJ006	429	KNG015	434			LDD506	452	LDP508	457	LJJ504	467
KLJ007	429	KNG503	435			LDD508	452	LDP509	457	LJJ505	467
KLJ008	429	KNG504	434			LDD509	452	LDP510	457	LJJ506	467
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KLJ011	429	KNG507	435			LDG002	452	LDP513	458	LJL001	468
KLJ012	429	KNG508	434			LDG002	452	LDP514	458	LJL002	469
KLJ013	429	KZB001	435			LDG003	452	LDP515	458	LJL500	468
KLJ014	428	KZB004	436			LDG003	452	LDR001	458	LJL501	468
KLJ015	428	KZD005	436			LDG004	452	LDR002	458	LJL502	468
KLJ016	429	KZD006	436			LDB008	450	LDR003	458	LJL503	468



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LJN500	470	LNG506	478	MDD025	488	MDJ045	490	MGB070	495	MGM020	500
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LJS004	473	MDD040	488	MDJ509	491	MGD016	497	MGM035	500		
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LJS506	474	MDD508	487	MGB006	492	MGD032	497	MGP009	501		
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P

filtration and
separation

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PBL026	541	PBQ014	546	PBQ147	552	PDJ016	560	PJH009	568	PNB024	572
PBL027	541	PBQ015	546	PBQ148	552	PDJ017	560	PJH010	568	PNC001	572
PBL028	541	PBQ016	546	PBQ149	552	PDJ018	560	PJH011	568	PNC002	572
PBL029	540	PBQ017	547	PBQ150	552	PDJ019	560	PJH012	568	PNC003	572
PBL030	541	PBQ018	547	PBQ151	551	PDJ020	560	PJH013	568	PNC004	572
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PBL040	540	PBQ024	547	PBQ157	553	PGB006	562	PJH019	569	PNC010	572
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PBM008	541	PBQ057	546	PBS502	554	PGB025	562	PKC001	570	PND502	573
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TFB118	657	TFG005	658	TJD001	661	ZCC505	667	ZCK506	673	ZFR012	685
TFB119	657	TFG006	658	TJD002	661	ZCC506	668	ZCK507	673	ZHB002	688
TFB121	657	TFG007	658	TJD003	661	ZCC507	668	ZCK508	675	ZHB003	688
TFB122	657	TFG008	658	TJD004	661	ZCC508	668	ZCK509	674	ZHB004	689
TFB123	657	TFG009	658	TJD005	661	ZCC509	668	ZCK510	674	ZHV001	689
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