

LABORTOPS

valid until 30.09.2025

PHOTOMETER MD50

- Portable device for COD determination
- Suitable for the very low measuring range
- Simple and intuitive operation



New

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Data Logger EBI 20-T1, Temperature/Humidity data logger EBI 20-TH1



- Transport and storage monitoring
- Visual alarm
- Stores up to 40000 measured values, readable at any time



EBI 20-T1



EBI 20-TH1

Applications:

- Transport
- Storage monitoring
- Refrigeration areas and cold rooms

Features:

- Waterproof
- Visual alarm
- Max/min values on display
- Stores 40000 readings, can be read off at any time

Scope of supply:

EBI 20-T1: Temperature Logger

EBI 20-T1-Set: Temperature Logger, evaluation software, Interface

EBI 20-TH1: Humidity data logger

EBI 20-TH1-Set: Humidity data logger, evaluation software, Interface

Specifications

Measuring range temperature:	-30 to +70 °C
Measuring range humidity (EBI 20-TH1):	0% to 100% R.H.
Accuracy temperature:	±0.5 °C (-20 to +40 °C); ±0.8 °C for remaining measuring range
Accuracy humidity (EBI 20-TH1):	±3% R.H. (10 to 90% R.H.)
Resolution temperature:	0.1 °C
Resolution humidity (EBI 20-TH1):	0.1% R.H.
Memory:	40000 samples
Sensor:	NTC for temperature/capacitive for humidity
Operating temperature:	-30 to +70 °C
Storage temperature:	-40 to +70 °C
Measuring period:	1 minute to 24 hours
Power supply:	3 V lithium (CR 2450), can be replaced by user
IP code:	IP 67 (EBI-20 T1)/IP 52 (EBI 20-TH1)
Housing:	ABS
Dimensions (L x W x H):	69 x 48 x 22 mm

Type	PK	Cat. No.
EBI 20-T1	1	9908069*LLG
EBI 20-T1-Set	1	9908073*LLG
EBI 20-TH1	1	9908070*LLG
EBI 20-TH1-Set	1	9908074*LLG



Penetration/infrared thermometer testo 104-IR BT

Penetration thermometer with integrated infrared sensor for quick and easy determination of surface and core temperature in the food sector. Suitable for checks as part of HACCP processes. The infrared measuring device is equipped with a 2-point laser with 10:1 optics. Seamless, digital documentation is possible via the testo Smart App connection. All measurement values are automatically transferred to the testo Smart App via Bluetooth®. For regulatory requirements and internal quality assurance, data can be exported or professional reports can be created in PDF format (incl. signature & comment function). The penetration/infrared thermometer is watertight (IP65), EN 13485 certified, and HACCP-compliant.

Scope of supply: Penetration/infrared thermometer, batteries, instruction manual, calibration protocol



Temp. range °C	Dimensions (W x D x H) mm	PK	Cat. No.
-30 ... 250	48 x 21 x 281	1	4701461*LLG

Disposable data logger TempMate-S1



- Automatic report generation in PDF and CSV format
- 110 days runtime, 16000 measured values every 10 minutes
- Food-safe according to HACCP

The single-use data logger TempMate-S1 with its built-in USB connector, is the ideal solution for low-cost temperature monitoring of transports.

- Auto-generating PDF and CSV format data report
- 110 days run time 16000 measurements, 10-minute interval
- Up to 5 alarm points configurable
- Integrated USB connector
- LED Alarm indicators
- Food proof according to HACCP

Specifications

Temperature range:	-30 ... 70 °C
Accuracy:	±0.5 °C at -20 ... +40 °C/±1.0 °C in remaining range
Resolution:	0.1 °C
Data memory:	16000 measurements
Recording cycle:	110 days
Sampling interval:	10 min
Shelf life:	24 months
Dimensions (L x W x H):	80 x 47 x 7 mm
Weight:	14.6 g
IP code:	IP 67/NEMA 6
Certifications:	Calibration Certificate, EN 12830 S, T, C, D, 1

Type	PK	Cat. No.
TempMate-S1	1	6285049*LLG

Digital refractometer RFM340-T



- High-resolution 7" HD touchscreen display
- Brix value precision up to three decimal places

New

High-precision measuring device with Peltier temperature control for demanding applications in the food, beverage, and chemical industries. SMART temperature stability, RFID user identification, and application-specific, pre-programmed methods simplify routine analyses. Measurements can be performed quickly and reliably in Brix, refractive index (RI), or up to 100 user-defined scales.



- High-resolution 7" HD touchscreen display
- Flat prism surface facilitates cleaning
- Wide beam scan for non-homogeneous samples
- Brix precision to three decimal places
- Data memory for over 8000 readings
- Menu with PIN protection
- Dual display function: the display of Brix or RI values alongside the equivalent sucrose SG result
- USB (A), USB (B), and Ethernet interface
- Output as secure PDF as possible
- USB "Backup & clone"
- Remote access for diagnostics and maintenance
- Supports FDA Regulation 21 CFR Part 11

Measuring range	Temp. range °C	PK	Cat. No.
0 ... 100 °Brix; 1.32 ... 1.58 RI	0 ... 70	1	4694491*LLG

Sucrose in water (Brix) standards

Certified reference material according to ISO 17034 and ISO 17025 for the calibration or validation of appropriate test methods for the determination of the Brix value. The product has a shelf life of 20 weeks and is manufactured under ICUMSA guidelines.



- Ready to use
- Can be used with any refractometer
- Provided in a dropper bottle, 1 ml



Measuring range	PK	Cat. No.
5% Brix	1	BS05*REA
7% Brix	1	BS07*REA
10% Brix	1	BS10*REA
11,2% Brix	1	BS112*REA
11,5% Brix	1	BS115*REA
12% Brix	1	BS12*REA
12,5% Brix	1	BS125*REA
15% Brix	1	BS15*REA
20% Brix	1	BS20*REA
25% Brix	1	BS25*REA
30% Brix	1	BS30*REA
35% Brix	1	BS35*REA
40% Brix	1	BS40*REA
45% Brix	1	BS45*REA
50% Brix	1	BS50*REA
55% Brix	1	BS55*REA
60% Brix	1	BS60*REA

Photometer MD50



- Highest accuracy for samples with low contamination
- Measurement of COD in high, medium and very low ranges for versatile applications
- Stable and compact



New



The MD50 is specifically designed for COD determination and offers superior performance enhanced usability and expanded testing capabilities, including the new Very Low Range (VLR) COD method for ultra-sensitive measurements.

- Highest accuracy for low-pollution samples
- Measurement of COD in high, medium and very low ranges for versatile applications
- Easy operation thanks to intuitive symbols and animations as well as user-friendly navigation
- Results within seconds enable high-efficiency
- Time-saving with the One Time Zero function (stays valid for up to 8 hours)
- Handheld design for comfortable single-handed operation
- Robust housing with side protection for extra durability
- Wireless NFC and USB-C data transfer
- Automatic GLP compliance
- Versatile connectivity via the AquaLX® app or Lovibond® Data Expert software
- Pre-programmed Lovibond® CSB cuvette tests for operation right out of the box available separately

Methods: M134, M130, M133, M131, M132

Scope of supply: Photometer in carrying case, adapter for cells (16 mm), 2 x dosing syringes (1 ml, 2 ml), USB-C cable, screwdriver, manual, 2 x AA batteries

Type	Dimensions (W x D x H) mm	PK	Cat. No.
MD50 COD	76 x 155 x 45	1	6523619*LLG

Room climate monitor RM 100



Ideal for monitoring the CO₂ concentration in any room



For reliable control and evaluation of indoor air quality. Simultaneous measurement and display of temperature, CO₂ concentration and humidity. The CO₂ concentration in the air is additionally indicated by three LEDs as good, medium or bad.

- Alarming when a limit is exceeded
- Large, illuminated display
- Factory calibration certificate

Scope of supply: Room climate monitor RM 100, external AC/DC adapter

Specifications

CO₂ range:	0 ... 3000 ppm
Resolution:	1 ppm (0 ... 1000 ppm), 5 ppm (1001 ... 2000 ppm), 10 ppm (2001 ... 3000 ppm)
Accuracy:	below 25 °C: ±80 ppm or ±5% of measured value (<2000 ppm); ±7% (>2000 ppm)
LED's:	green: <800 ppm, yellow: 800 ... 1200 ppm, red: >1200 ppm
Temperature range:	0 ... 50 °C
Resolution:	0.1 °C
Accuracy:	±1 °C
Relative humidity:	20 ... 90%
Resolution:	1%
Accuracy:	±5%
Dimensions (L x D x H):	137 x 51 x 99 mm
Weight:	200 g
Electricity supply:	USB or 5 VDC adapter
Power supply:	100-240 VAC 50/60 Hz

Type	PK	Cat. No.
RM 100	1	6288263*LLG

Digital Thermo-hygrometer



For monitoring indoor temperature and humidity.

- Large, easy-to-read display
- Display of maximum and minimum values
- °C/°F-switchable
- For hanging or standing

Scope of supply: Thermo-hygrometer, battery, operating instructions



Temperature range:	-10 ... 60 °C
Temperature accuracy:	±1 °C (-10 ... 50 °C)
Humidity range:	10 ... 99% rH
Humidity accuracy:	±5% (25 ... 75% rH)
Dimensions (L x W x H):	102 x 21(50) x 110 mm
Weight:	122 g

Type	PK	Cat. No.
Digital Thermo-hygrometer	1	6225927*LLG

Light measuring instrument testo 540



Quick and easy-to-use instrument for measuring lighting conditions in the workplace. The sensor is adapted to the spectral sensitivity of the eye.

- Display illumination
- Hold-function
- Max./min. values

Scope of supply: Metre incl. protection cap, batteries, calibration protocol



Specifications

Measuring range:	0 to 99999 lx
Resolution:	1 lx (0 to 19999 lx) 10 lx (remaining range)
Accuracy:	±3 lx or ±3%
Measuring frequency:	0.5 s
Dimensions (W x D x H):	133 x 46 x 25 mm
Weight:	95 g
IP code:	IP 40
Power supply:	2 Micro cells AAA

Type	PK	Cat. No.
testo 540	1	6232393*LLG

Secchi Disk



For determining the depth of visibility and light permeability of water. Sturdy design made of strong, hard-wearing plastic. Lead weight for better lowering. The approx. 15 cm high rod is fitted with an eyelet for fastening the lowering engine. The lowering line is marked in intervals of 100 cm with figures from 1 to 10 and in between additionally with line markings each 50 cm for better reading of the depth of visibility while the disk is being lowered.

Lowering line, please order separately.

Description	PK	Cat. No.
Secchi Disk, diam. 250 mm, 4 areas (2 x black, 2 x white)	1	6267808*LLG
Lowering line, 10 m, marked in intervals of 50 cm and 100 cm	1	7072324*LLG

Grippers for vaccine vials, PP



For precise gripping and safe removal of crimped vaccine/serum vials from cold storage boxes. Set consisting of 5 different colours (red, purple, blue, green, and yellow).

- Ergonomic squeeze area
- For vaccine vials up to Ø 21 mm
- Autoclavable at 121 °C

Dimensions (W x L x H) mm	PK	Cat. No.
20 x 152 x 35	5	6492240*LLG

Cryoware marker set Nalgene™, Type 6313



For durable labelling of cardboard, plastic and cloth material for use at ultra-low temperatures. Non-smudge and non-running. Removable with alcohol. Extra fine point. Two packs available: 1 pack contains one each red, green, black and blue marker while the other pack contains black markers only.

Description	PK	Cat. No.
Assorted	4	9400978*LLG
Black	4	9400979*LLG

LLG-Temperature block exact, aluminium



Suitable for both cooling and heating, universally usable, uniform temperature distribution within the block, ideal for all temperature-sensitive applications.

Array	Dimensions (W x D x H) mm	PK	Cat. No.
96 x 0.2 ml PCR tubes + 6 x 1.5 ml tubes	118 x 89 x 24	1	9409015*LLG
24 x 1.5 ml tubes	115 x 89 x 34	1	9409017*LLG
24 x 2.0 ml tubes	115 x 89 x 34	1	9409018*LLG
12 x 15.0 ml Centrifuge tubes	75 x 89 x 38	1	9409008*LLG

Label printer DYMO® LabelWriter™ 550



- Compact label printer
- Direct thermal printing technology
- Customized label design possible



Compact label printer with direct thermal printing technology for fast and efficient label printing without additional ink cartridges or toner cartridges.

- Print resolution of up to 300 x 300 dpi
- Customised label design with DYMO® Connect for Desktop software
- Printing precise label quantities without cumbersome label sheets
- Automatic energy-saving mode
- PC connection via USB interface

Scope of supply: Label printer, 1 x label starter roll (28 x 89 mm), power adapter, power cable, USB cable, quick start guide

Specifications

Max. label width:	59 mm
Print speed:	62 labels/min.
Dimensions (WxDxH):	127 x 187 x 136 mm
Weight:	640 g
Power supply:	100 ... 240 V, 50/60 Hz, 24 V

Type	PK	Cat. No.
DYMO® LabelWriter™ 550	1	4687585*LLG

Cryo labels CryoSTUCK®, rectangular



- For DYMO® LabelWriter™ 5-Series
- Cryo labels for frozen surfaces

Developed for labelling laboratory consumables and containers such as vials, tubes and cryo boxes. These durable, solvent-resistant cryo labels adhere securely to frozen surfaces down to a temperature of -80 °C. Frozen containers can therefore be labelled directly without having to thaw the samples first. The labels also have a permanent adhesive that adheres securely even under extreme conditions, including prolonged storage in liquid nitrogen (-196 °C). Resistant to a wide range of laboratory chemicals, including detergents, alcohols, acetone, xylene and disinfectant solutions.

Cryo labels with SnapPEEL™ technology, the unique shape consisting of an adjoined circle with a rectangle. This allows the labelling of containers and their caps.

Form	Dimensions (diam. x D x W) mm	PK	Cat. No.
rectangular	-x 50.8 x 25.4	1000	4711710*LLG
rectangular	-x 50.8 x 6.4	1000	4711711*LLG
rectangular	-x 38.1 x 19.1	750	4711712*LLG
rectangular	-x 25.4 x 25.4	750	4711713*LLG
rectangular	-x 25.4 x 12.7	750	4711714*LLG
rectangular and circular	9.5 x 23.9 x 12.7	750	4711715*LLG
rectangular and circular	11.1 x 28.6 x 15.9	750	4711716*LLG
circular	12.7 x - x -	2000	4711717*LLG

LLG-2in1 KITs with Short Thread Vials ND9 (wide opening)



2in1 KITs contain 100 vials (1.5 ml) and 100 closures in an orange PP-Box.

Description	Cover type	PK	Cat. No.
clear	Short Thread Cap, blue, hole, Silicon white / PTFE red	100	9003560*LLG
clear	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	7621765*LLG
clear	Short Thread Cap, transparent, hole, Silicon white / PTFE red	100	9003561*LLG
clear, labelling field	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	9003562*LLG
clear, labelling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	7970892*LLG
amber, labelling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	6266871*LLG

b.safe-Caps, GL45, PPS



Screw cap for thread GL 45 made of PPS, freely turnable distributor body made of PTFE with female threads UNF 1/4" 28 G for connecting capillary tubing (O. D. 3.2 mm) or a b.safe air valve.

- Scope of supply:**
Cap A: 2 x connections, 1 x fitting (PFA), 1 x air valve
Cap B: 3 x connections, 2 x fittings (PFA), 1 x blind fitting (PFA), 1 x air valve
Cap C: 4 x connections, 3 x fittings (PFA), 2 x blind fittings (PFA), 1 x air valve

Type	PK	Cat. No.
A	1	6313834*LLG
B	1	6313835*LLG
C	1	6313836*LLG

Syringes for GC autosampler from Perkin-Elmer



GC syringes for all Perkin-Elmer autosamplers e.g. Clarus.

- With fixed needle
- Two different needle diameter
- All needles are 70 mm long with a cone-point style
- High reproducibility, low carry-over.

Capacity	Gauge (OD) mm	PK	Cat. No.
µl			
5	23 (0.63)	1	9221282*LLG
5	26 (0.47)	1	9221281*LLG
5 (Gas tight)	23 (0.63)	1	6204955*LLG
5 (Gas tight)	26 (0.47)	1	9221283*LLG

Air valves, PP



Red/yellow. With connecting thread UNF 1/4" 28G. Filter membrane made of PTFE/PP with a porosity of 1 µm and integrated non-return valve made of silicone. With service life indicator.

Diam. mm	Life time	PK	Cat. No.
20	6 months	2	6313842*LLG
20	6 months	10	6313843*LLG

Exhaust filters V3.0, GL 14



The exhaust air filters are equipped with three different activated carbon layers, which bind acids and alkalis and adsorb organic solvent vapours.

- Filter media with a very high-performance spectrum for acids and alkalis
- Optimised for binding buffer solutions and solvent vapours
- With splash guard
- 1500 m²/g adsorption surface area
- Supply pack with change indicator



Filter size	Life time	PK	Cat. No.
S	3 months	4	4681461*LLG
M	6 months	2	4681458*LLG
L	12 months	2	4681463*LLG

Funnel stands LaboPlast®, PP



White, unbreakable, chemically resistant.
For 2 or 4 funnels. A robust, heavy base provides good stability.
Variable height adjustment up to 450 mm. Thanks to a magnet system, no clamping screws are necessary. The height of the funnel holder can be adjusted easily and flexibly with one hand.

With 2 or 4 aperture reduction inserts for small funnels.
Suitable for funnels with diam. 40 to 180 mm.

To hold funnels piece	Dimensions (W x D x H) mm	PK	Cat. No.
2	140 x 300 x 480	1	9069922*LLG
4	150 x 550 x 500	1	9069924*LLG

Buchner funnel, borosilicate glass 3.3



New



Buchner Funnel (with slit sieve disc)
for Membranes or Paper Filters

- Chemical and high-temperature change resistance
- With a sintered VitraPOR® glass filter disc
- The glass filter disc, which is fitted with a glass disc with approx. 1.8 mm wide slits
- Easy filtrate removal and cleaning

Capacity ml	Funnel diam. mm	Filter diam. mm	PK	Cat. No.
75	52	45 ... 48	1	6492454*LLG
125	65	55 ... 60	1	6492455*LLG

LLG-Qualitative filter paper, circles



Made from 100% cellulose. Ash content 0.06%. Filtration speed according to DIN 53137. Capacity of separation according to DIN 53135.
Medium fast, pore size 5 to 13 µm.
For fast filtration with fine particles.

Diam. mm	Filtration time secs.	PK	Cat. No.
47	88	100	9045801*LLG
55	88	100	9045802*LLG

LLG-Filtering apparatus, borosilicate glass



Universally applicable filtration unit made of high-quality borosilicate glass. Wide range of applications for filtration with filter paper or membrane filters (47 mm).

- Large funnel (300 ml) with scale
- Filter flask 1 or 2 litres, with scale
- Safe plastic olive
- Filter plate with porosity 2
- Filter plates with porosity 1 or 3 are optionally available
- All components available as spare parts

Scope of supply: Filter flask NS 45/40, funnel 300 ml, filter holder NS 45/40 with connector GL 14 and filter plate 47 mm (por. 2), clamp

Description	PK	Cat. No.
LLG-Filtering apparatus 1000 ml	1	6291850*LLG
LLG-Filtering apparatus 2000 ml	1	6291851*LLG

LLG-Extraction thimbles, cellulose



Neutral and fat-free. With excellent retention capacity.

Diam. mm	Length mm	PK	Cat. No.
20	80	25	9045701*LLG
22	80	25	9045700*LLG
25	100	25	9045709*LLG
26	60	25	9045707*LLG
28	80	25	9045711*LLG
30	80	25	9045708*LLG
33	80	25	9045702*LLG
33	94	25	9045703*LLG
33	100	25	9045704*LLG
33	118	25	9045706*LLG
43	123	25	9045710*LLG

NMR Tube Rack, PP



Polypropylene rack with carrying handles features an upper deck with holes and a lower deck support for tube ends. Stackable. For 72 (6 x 12) tubes with 3 or 5 mm diameter. Autoclavable.

Dimensions (W x D x H) mm	PK	Cat. No.
210 x 110 x 220	1	9301065*LLG

NMR tubes, diameter 3 and 5 mm borosilicate glass 3.3, standard



The NMR tubes are produced with high precision. They are suitable for routine measurements, high-throughput measurements or NMR systems with autosampler at measurement frequencies up to 600 MHz. The tubes are manufactured from borosilicate glass 3.3 which conforms to USP Type I and ASTM E438, Type I, Class A. Please order closing caps separately.

Outer diam. mm	Int. diam. mm	Length mm	PK	Cat. No.
4.95 ± 0.05	4.19 ± 0.05	178	100	9400310*LLG
4.95 ± 0.05	4.19 ± 0.05	203	100	9400311*LLG

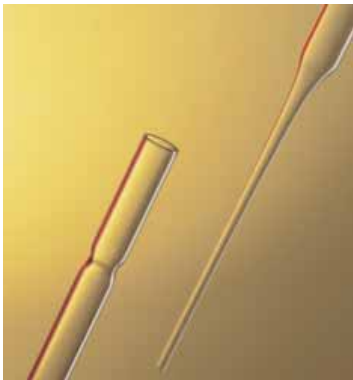
Closing caps for NMR and EPR tubes



The caps are made of durable plastic. For 5 mm NMR tubes and corresponding EPR tubes.

Colour	PK	Cat. No.
red	50	4688374*LLG
green	50	4688375*LLG
yellow	50	4688376*LLG
blue	50	4688377*LLG

Pasteur pipettes, soda glass



Extra long tip, optimal for NMR applications. With constriction, without cotton wool.

Length mm	PK	Cat. No.
300	1000	4672077*LLG
350	1000	4672078*LLG

NMR brushes



For cleaning NMR tubes.

Length mm	PK	Cat. No.
250	5	290740059*SCHOTT

Bowl Trolleys



Trolley

- Welded design
- Suitable for plastic tubs 85 l or 100 l
- Height with red tray approx. 760 mm, with a white tray of approx. 840 mm
- 4 swivel castors with solid rubber wheels Ø 75 mm, ball bearings, non-marking tyres
- Powder-coated black-silver effect paint
- Load capacity 100 kg

Bowl, red: PE, 85 litres

Bowl, white: PE, 100 litres

Description	Colour	Dimensions (W x D x H) mm	PK	Cat. No.
Trolley	black-silver	500 x 750 x 720	1	9148300*LLG
Bowl	red	540 x 765 x 350	1	9148301*LLG
Bowl	white	540 x 900 x 400	1	9148302*LLG

Folding steps K70



Made of aluminium, with large steel steps of 30 x 21 cm and anti-slip mats. Narrowly foldable to 5 cm.

- Stands securely due to the non-slip plug-in foot that stands up over the entire surface.
- Folding safety mechanism (safety lock)
- Ergonomic square tube bracket
- Can be loaded up to 150 kg

Number of steps	Height*	Colour	PK	Cat. No.
2	46	black	1	4668331*LLG
3	69	black	1	7623704*LLG

* Height of first step (cm)

Glove boxes, PMMA/PE



Aluminium frame with panels made of acrylic glass (PMMA), and a base panel made of polyethylene. Front panel with two glove ports and one pair of natural rubber gloves size 9, two lead-ins for cables on the back side (upper left and upper right). Workspace including two hose connectors for gas-filling and aeration and appropriate tubing. Glove box without transfer chamber with 1 x 5 m PVC tubing for gas-filling and 1 x 5 m PE aeration tubing. Glove box with transfer chamber with 2 x 5 m PVC tubing for gas-filling and 2 x 5 m PE aeration tubing.

Glove box with Transfer chamber

Transfer chamber with two doors, external door with latch to prevent accidental opening, the tray extends into the workspace with the opening of the internal door for easy removal of inserted products.

Specifications

Glove boxes with and without Transfer chamber

Capacity Box:	290 l
Internal Dimensions Box (W x D x H):	850 x 540 x 650 mm
Max. Load Box:	40 kg
Inlet opening:	diam. 190 mm
Hinged lid opening (W x H):	850 x 425 mm
Working Temperature range:	-20 ... 70 °C
Glove boxes with Transfer chamber	
Capacity Transfer chamber:	24 l
Internal Dimensions Transfer chamber (W x D x H):	220 x 320 x 275 mm
Max. Load Transfer chamber:	3 kg

Type	External dimensions (W x D x H) mm	PK	Cat. No.
Glove box	890 x 600 x 700	1	6267157*LLG
Glove box with Transfer chamber	1210 x 600 x 700	1	6258807*LLG

Gloves for Glove boxes, natural rubber



Ambidextrous. For openings of Ø 190 mm.

- Minimal static charge
- Tear, perforation and abrasion resistant
- High flexibility

Size	PK	Cat. No.
7	1	6260950*LLG
8	1	7671922*LLG
9	1	7671923*LLG

Overshoe dispenser HYGOMAT COMFORT/CLEANROOM

franz
mensch

- No electrical power needed
- Easy to use, no need for bending over
- Easy and quick handling
- With handrail for extra comfort
- Capacity: two packs of overshoes
- With a window for easy control of rest capacity
- Refilled with overshoes within seconds
- Weight: 21 kg

COMFORT



Description	PK	Cat. No.
HYGOMAT COMFORT, 740 x 300 x 730 mm	1	6257283*LLG
HYGOMAT CLEANROOM, stainless steel, 740 x 300 x 730 mm	1	6269779*LLG

Overshoes for dispenser HYGOMAT

franz
mensch



6257285*LLG:

- Polypropylene nonwoven, CPE coated, white
- Waterproof sole
- Very slip resistant
- Perfect for a smooth surface

6257286*LLG:

- PP overshoe with CPE sole, blue
- Polypropylene nonwoven
- At the top nonwoven, and at the bottom strong waterproof CPE sole
- Very tearproof and slip-resistant

6257287*LLG:

- CPE (Cast Polyethylene), blue
- Strong quality, approx. 60 micron
- Light protection against liquids

6257288*LLG:

- Polypropylene nonwoven, blue
- At the bottom structure made of CPE
- Permeable to air and light slip-resistant
- For dry areas

Length	PK	Cat. No.
mm		
440	80	6257285*LLG
440	70	6257286*LLG
470	110	6257287*LLG
460	100	6257288*LLG

Adhesive Mats Sticky Mat

ERGOMAT



The Sticky Mat provides a fast, convenient, and reliable way to clean shoe soles or other items before entering a clean and sanitary area. Sticky Mats significantly reduce traffic-borne contaminants.

Ergomat White Sticky Mats are produced in a 46 x 114 cm sheet, sold in pads of 30 sheets, with 10 pads per box (300 sheets total.)

Description	Colour	PK	Cat. No.
Frame for Cleanroom mats Sticky Mat	grey	1	6272245*LLG
1 mat of 30 sheets	white	10	6272241*LLG
1 mat of 30 sheets	blue	10	6272242*LLG
Set of 10 mats of 30 sheets + 1 frame	white	1	6272243*LLG
Set of 10 mats of 30 sheets + 1 frame	blue	1	6272244*LLG

Cleanroom Wipes Sontara® MicroPure, polyester/cellulose



Sontara® MicroPure nonwoven styles (wood pulp/polyester) are engineered for cleanroom use and combine the absorbency of a natural fibre with the cleanliness and strength of a synthetic fibre in the same fabric. No binders or chemical treatments are used to manufacture them. The high cleanliness and purity are ensured by low extractable level and ion content as well as extremely low particle generation by the material itself. The fabric styles offer high particle and liquid absorbency due to their cellulose content.

Type	Dimensions	Cleanroom Class	PK	Cat. No.
	mm			
MicroPure 100	305 x 305	ISO 5 + 6	150	9390185*LLG
MicroPure 100	224 x 224	ISO 5 + 6	300	9390186*LLG
MicroPure AP	305 x 305	ISO 6 - 9	150	9390187*LLG
MicroPure AP	224 x 224	ISO 6 - 9	300	9390188*LLG
MicroPure SV	305 x 305	ISO 7 - 9	250	9390189*LLG
MicroPure SV	224 x 224	ISO 7 - 9	500	9390190*LLG

Dispenser uvex one2click and Wall-mounted dispenser

uvex one2click: easy-to-use and robust wall-mounted dispenser.

Wall-mounted dispenser: Plexiglas wall-mounted dispenser, suitable for uvex x-fit, uvex com4-fit, uvex one-fit, uvex xtra-fit, uvex hi-com, uvex whisper, uvex whisper+.

Earplugs are not included.



Description	PK	Cat. No.
uvex one2click dispenser	1	6239985*LLG
Wall-mounted dispenser	1	7940554*LLG

Earplugs, Refill packs



The right solution for every auditory canal: Uvex ear protection plugs are available in sizes S, M and L. Their ergonomic shape offers a high wearing comfort. The soft PU foam adapts perfectly to the auditory canal, providing optimal protection.

Refill packs for uvex one2click dispenser or wall box dispenser.

Type	Size	For	PK	Cat. No.
com4-fit	S	Wall-mounted dispenser	200	9005028*LLG
com4-fit	S	uvex one2click	300	6285529*LLG
x-fit	M	Wall-mounted dispenser	200	6233602*LLG
x-fit	M	uvex one2click	300	6268846*LLG
xtra-fit	L	Wall-mounted dispenser	200	6285528*LLG
xtra-fit	L	uvex one2click	250	6285531*LLG
xact-fit	M	uvex one2click	400	6285530*LLG
x-fit	M	Wall-mounted dispenser	200	6239986*LLG

Half face mask BariMask HF



- With one inhalation valve and two side exhalation valves
- Folding magnetic "Quick-Lock" buckle



BariMask HF with round thread connection Rd40. The innovative "Quick-Lock" connection of the neck strap makes it easy to put on the half-face mask and therefore quicker to use.

- Corresponds to standard EN 140:1998
- With round thread connection Rd 40 according to DIN EN 148-1
- One inhalation valve and two side exhalation valves
- Magnetic buckle on the neck strap
- Rolling straps with adjustable strap sliders
- Safe identification and documentation due to integrated RFID transponder

Type	PK	Cat. No.
Half face mask BariMask HF	1	6523581*LLG

Screw-Type Filters for BariMask HF



The filters are tested and approved to EN143/EN 14387. Offer very low breathing resistance. Individually sealed in PE bags and packed in outer boxes.

Description	Type	PK	Cat. No.
Gas filter	A2	1	9005558*LLG
Gas filter	B2	1	9005559*LLG
Gas filter	K2	1	9005561*LLG
Gas filter	ABE2K1	1	9005563*LLG
Gas filter	AX	1	6200208*LLG
Particle filter	P3 R	5	6289581*LLG
Combined filter	AX P3 R D	1	6227097*LLG
Combined filter	A2 P3 R D	1	7626397*LLG

Safety Eyeshields 5X2

The 5X2 glasses are designed to adapt seamlessly to any spectacle frame. They offer the same level of protection as conventional glasses but are fully compatible with your prescription glasses.

- Perfect integration with any prescription spectacles
- Temples with rubber or matt finish
- Frame made of new material
- Integrated side shields
- Polycarbonate lens
- Scratch-resistant and anti-fog
- ISO 16321 and ANSI certified
- Lens clear (U UL1.2 DT)

New



Type	PK	Cat. No.
Essential - Clear	1	6522349*LLG
Advanced - Clear	1	6522350*LLG
Advanced Hybrid	1	6522351*LLG
Advanced Full-vision goggles	1	6522352*LLG

Colony Counter CC-200, manual



- Acoustic counting by pressure
- Pressure individually adjustable
- Antimicrobial protection with BioCote®



- Pressure sensitive counting
- Pressure can be adjusted
- Audible confirmation
- Choice of light or dark background
- Bright white energy-saving LED lighting
- Average count facility
- With BioCote® antimicrobial protection
- Connectivity to printer or computer

Scope of supply: Device with two Wolffhuegel graticules and dish centring adapters to facilitate use with 50 to 90 mm dishes.

Please order magnifiers separately.

Specifications

Digital display:	3 digit LED
Lighting:	White LED
Magnifier glass:	1.7x and 3x (option)
Counter:	0 to 999
Petri dishes:	diam. 50 to 90 mm
Dimensions (W x D x H):	310 x 300 x 140 mm
Weight:	1.5 kg
Power supply:	120-230 V, 50/60 Hz, 70 W
Warranty:	3 years

Type	PK	Cat. No.
CC-200	1	9645280*LLG

Accessories for Colony Counter CC-200

Description	PK	Cat. No.
Magnifiers 1.7x	1	9645281*LLG
Magnifiers 3x	1	6223318*LLG
Wolffhuegel graticule/segmentation discs for colony counter	10	6238272*LLG
Centering adapter	2	6242195*LLG
Protective discs	5	6241644*LLG

Anaerobic jars, stainless steel



small



standard



large



eco



crystal



crystal eco

For the cultivation of anaerobic and microaerophilic microorganisms in a defined and rapidly generated gas atmosphere. The requested atmosphere may be reached under ideal conditions by two methods. Either by using chemical gas packs (anaerobe systems) or by manually evacuating the jars with a vacuum pump and flushing with gas afterwards (e.g. with nitrogen), in this case, no chemical accessories are needed (except anaerobic jar eco and crystal eco).

Methods for reaching anaerobic conditions: 3 x times evacuating and filling gas, flushing with gas for 5 minutes and chemical gas production (GasPacks) for Anaerobic jars "small", "standard", "large" and "crystal". For Anaerobic jar "eco" flushing with gas for 5 minutes (Using GasPack-Kits).

Type	Capacity	Int. diam. mm	Int. height mm	PK	Cat. No.
small*	2	120	170	1	9520051*LLG
standard*	3	120	270	1	9520056*LLG
large*	6	175	260	1	9520050*LLG
eco**	3	120	270	1	9520057*LLG
crystal***	3	120	270	1	9520058*LLG
crystal eco****	3	120	270	1	6287615*LLG

*Stainless steel jar with UV-resistant plastic lid (2 valves, 1 manometer)

**Stainless steel jar with UV-resistant plastic lid (ventilation screw)

***Transparent polycarbonate jar and lid (2 valves, 1 manometer)

****Polycarbonate jar with UV-resistant plastic lid (ventilation screw)

Accessories for anaerobic jars

Type	To hold dishes	PK	Cat. No.
	quantity		
Rack "standard" (for "standard", "large", "eco", "crystal")	15 (60 to 100 mm dia.)	1	9520053*LLG
GasPack-Kit "anaerobic" (1 x 3.5 l)		10	9520064*LLG
Anaerobic Indicator (test strip)		100	9520067*LLG

Gel electrophoresis tank MultiSUB Mini 7



The MultiSUB mini is the smallest device in the series, designed for small and medium sample volumes. The small buffer volume of 225 ml increases the effectiveness of the analysis.

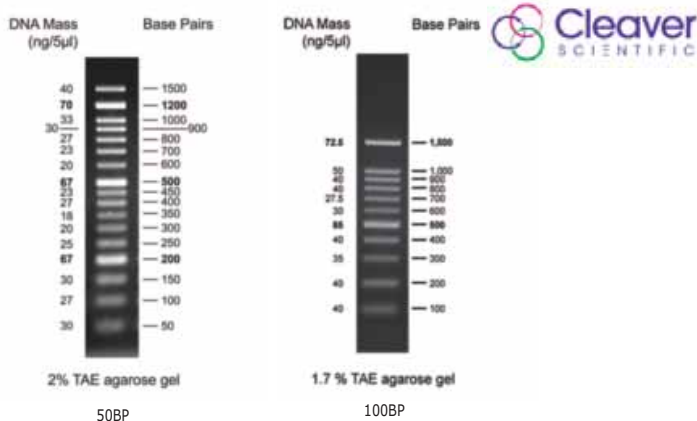
Supplied with: 7 x 7 cm UV Tray, 2 x 8 sample combs.

Specifications

Gel dimensions (W x L):	7 x 7 cm
Unit dimensions (W x L x H):	21 x 9 x 9 cm
Max. sample capacity:	7 x 7 cm tray, 32 samples

Description	PK	Cat. No.
MultiSUB Mini 7	1	6258373*LLG

DNA Markers for Gel Electrophoresis, CSL-MDNA



The ready-to-use DNA markers run precisely and produce a sharp, well-defined ladder. The markers contain high-intensity reference bands and may be used to perform size comparisons with DNA molecules ranging from the smallest of PCR fragments to large, linearised cosmid vectors.

- Up to 19 bands
- Isolated from restrictive plasmids
- 6 months stable at room temperature
- 12 months shelf life at 4 °C
- 24 months storable at -20 °C
- Vials of 500 µl

Type	Size	Bands	Reference bands	PK	Cat. No.
50BP	50 bp - 1500 bp	17	200 bp, 500 bp	1	6256963*LLG
100BP	100 bp - 1500 bp	11	500 bp, 1500 bp	1	6256961*LLG
100BPH	100 bp - 3000 bp	12	500 bp, 1500 bp	1	6256960*LLG
1KBPPLUS	100 bp - 10 Kb	13	1 Kb, 3 Kb	1	4669511*LLG

LLG-PCR tubes, PP



Suitable for standard PCR and qPCR



New

LLG-PCR tubes with flat caps are suitable for standard PCR/qPCR thermal cyclers. The uniform, thin tube wall ensures optimum heat transfer and minimises condensation. The ergonomic cap design makes it easy to open and close the tubes with one hand. The V-shaped bottom allows total sample recovery. LLG-PCR tubes are autoclavable as well as RNase-, DNase-, and pyrogen-free. Withstands centrifugation up to 18000 x g in a fixed-angle rotor and up to 500 x g in a swing-out rotor.

Volume	Cover type	PK	Cat. No.
ml			
0.2	Flat lid	500	4704897*LLG

LLG-PCR tubes, PP, strips of 8

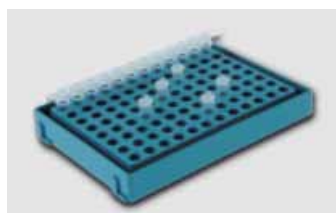


New

LLG-PCR tubes are suitable for standard PCR thermal cyclers. The uniform, thin tube wall ensures optimum heat transfer and minimises condensation. The V-shaped bottom allows total sample recovery. LLG-PCR tubes are autoclavable as well as RNase-, DNase-, and pyrogen-free.

Volume	Cover type	PK	Cat. No.
ml			
0.2	Attached lid	120	4704898*LLG
0.2	separate cap strips	120	4704899*LLG

96-Well PCR Rack, PP



- This working/storage rack is designed to accommodate 96 pieces of 0.2 ml PCR tubes or strips of 8 and 12 tubes.
- Tube wells are easily identified with alphanumeric, embossed numbers and letters.
- Translucent clear cover protects the tubes from dust and has a non-slip surface to allow safe storage of multiple racks.
- Dimensions (W x D x H): 125 x 88 x 31 mm

For tubes	PK	Cat. No.
ml		
0.2	1	6255804*LLG

Laboratory bottles protect+ DURAN®, GL 45, with retrace code



Highly transparent. The coating provides scratch, leak and splinter protection and is ideally suited to both the transport and storage of hazardous media or valuable samples.

- Coating made of polyamide
- With dust cap
- Graduated
- UV protection up to approx. 380 nm
- DIN ISO 4796-1
- USP compliant

Nominal capacity ml	PK	Cat. No.
100	1	218052486*SCHOTT
250	1	218053688*SCHOTT
500	1	218054487*SCHOTT
1000	1	218055483*SCHOTT

Square shape laboratory bottles, DURAN®, with retrace code



Thanks to its angular shape, the DURAN® square bottle fits particularly well and securely in the hand. You also save space and costs, whether in the autoclave, drying cabinet, oven, storage or dishwasher. With a screw cap and pouring ring. Maximum temperature: 140 °C.

- With Retrace code (Batch identification), Certificate available via the Internet
- Neutral glass/Type I glass acc. to USP/EP and JP

Capacity ml	Width mm	Height* mm	Neck thread GL	PK	Cat. No.
100	50	109	32	1	218202453*SCHOTT
250	64	143	45	1	218203655*SCHOTT
500	78	181	45	1	218204454*SCHOTT
1000	94	222	45	1	218205459*SCHOTT

*Height mm incl. cap

Laboratory Bottle system DURAN® YOUTILITY



- Specially shaped gripping zones on both sides of the bottle for easier and safer handling
- With the new YOUTILITY bottle thread opening or closing the bottle is significantly faster. The thread is fully compatible with DIN GL 45 closures and other accessories
- The slimmer YOUTILITY bottle shape allows more optimal use of limited space in autoclaves and laboratory refrigerators
- The YOUTILITY bottle has an integrated Retrace Code to allow full product traceability.
- Each DURAN® YOUTILITY bottle is supplied as a complete system, with a pouring ring (cyan polypropylene) and a GL 45 cap (cyan polypropylene)

Capacity ml	Ext. diam. mm	Height mm	PK	Cat. No.
125	55	124	4	218812854*SCHOTT
250	66	158	4	218813653*SCHOTT
500	78	193	4	218814452*SCHOTT
1000	93	253	4	218815457*SCHOTT

LLG-Bottles, wide mouth, HDPE



Suitable for food. With carrying handle. Ideal for containing liquids, powders and granules. Very strong and durable quality for extended use over time. The bottles can be used at temperatures from -40 to +80 °C.

Capacity Litres	Body diam. mm	Height mm	PK	Cat. No.
5	170	350	1	9139938*LLG
10	210	420	1	9139939*LLG

Volumetric Flasks, Borosilicate Glass 3.3, Class A, Blue Graduations, with Glass Stoppers



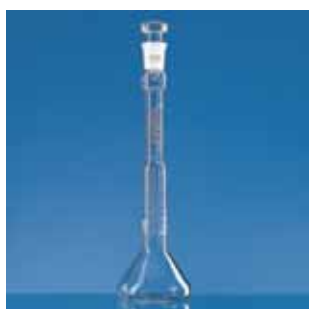
All BLAUBRAND® volumetric flasks are delivered with batch number and one batch certificate included per pack.

- DIN EN ISO 1042
- DE-M marking
- Ring marks and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

Nominal capacity	Tolerance	Joint size (NS)	PK	Cat. No.
ml	± ml			
5	0.04	10/19*	1	7018535*LLG
10	0.04	10/19*	1	7018546*LLG
20	0.04	10/19	1	7018536*LLG
20	0.06	12/21*	1	6238693*LLG
25	0.04	10/19	1	7018537*LLG
25	0.06	12/21*	1	7018553*LLG
50	0.06	12/21	1	7018538*LLG
50	0.10	14/23*	1	7018549*LLG
100	0.10	12/21	1	7018539*LLG
100	0.10	14/23	1	7018550*LLG
200	0.15	14/23	1	7018540*LLG
250	0.15	14/23	1	7018541*LLG
500	0.25	19/26	1	7018542*LLG
1000	0.4	24/29	1	7018543*LLG
2000	0.6	29/32	1	7018544*LLG

*Wide mouth

Volumetric flasks for determination of oil content, SILBERBRAND, Borosilicate glass 3.3



DIN 51 368. For determination of oil content in aqueous oil emulsions (e.g. drilling oil). With NS19/26, hollow glass stoppers. Graduations and inscriptions in highly contrasting white enamel. Capacity 100 ml, tolerance ± 0.2 ml. Calibrated to contain (IN).

Subdivisions: 0 to 5 ml: 0.1 ml, tolerance: ± 0.1 ml.
Subdivisions: 5 to 30 ml: 0.5 ml, tolerance: ± 0.5 ml.

Sample volume	PK	Cat. No.
ml		
100	1	9276880*LLG

Volumetric flasks, plastic, class B, PE NS-stoppers



To DIN EN ISO 1042, adjusted to IN, with PE standard ground joint stoppers.

Capacity	Tolerance	Joint size (NS)	PK	Cat. No.
ml	± ml			
25	0.08	10/19	1	9276590*LLG
50	0.12	12/21	1	9276591*LLG
100	0.20	14/23	1	9276592*LLG
250	0.30	14/23	1	9276593*LLG
500	0.50	19/26	1	9276594*LLG
1000	0.80	24/29	1	9276595*LLG

Measuring cylinders, PP, tall form, class B, blue moulded graduations



Highly transparent. With easily readable, raised, embossed blue scale and ring marks at the primary scale points. Calibrated 'In'. Food-safe product according to regulation (EU) No. 10/2011.

Capacity	Grad.	Tolerance	Diam.	Height	PK	Cat. No.
ml	ml	± ml	mm	mm		
10	0.20	0.2	15	145	1	9274408*LLG
25	0.50	0.5	22	170	1	9274409*LLG
50	1.00	1.0	27	200	1	9274410*LLG
100	1.00	1.0	33	250	1	9274411*LLG
250	2.00	2.0	44	315	1	9274412*LLG
500	5.00	5.0	58	360	1	9274413*LLG
1000	10.00	10.0	69	440	1	9274414*LLG
2000	20.00	20.0	97	482	1	9274415*LLG

Bottle top burette Titrette®



- Fast and reliable titration
- Highest precision
- No switching between filling and titration necessary



For fast and reliable titration with maximum precision, even where space is limited and independent of a power supply - in the laboratory, in production or on the move. Important for all users who want to work within the error limit of class A according to DIN EN ISO 385, as with glass burettes (e.g. in the pharmaceutical industry). If required, accurate up to 20 ml to 3 decimal places.

- High accuracy
- Smooth-running operation for sensitive, drop-wise titration and fast filling of the device
- Compact design
- Light and stable, easy handling
- No switching between fill and titrate
- Simple maintenance
- Cleaning and parts replacement right in the lab

Items supplied: Titrette® bottle-top burette, DE-M marking, performance certificate, telescoping filling tube (170 to 330 mm), recirculation tube, 2 x 1.5 V batteries (AAA/UM4/LR03), 4 x PP bottle adapters (GL45/32, GL 45/38, GL 45/S40 and GL32/NS 29/32), 2 coloured light shield inspection windows, operating manual



Volume ml	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	Interface	PK	Cat. No.
25	0.07	0.025	without	1	9271332*LLG
50	0.06	0.02	without	1	9271333*LLG
10	0.10	0.05	incl.	1	9271338*LLG
25	0.07	0.025	incl.	1	9271334*LLG
50	0.06	0.02	incl.	1	9271335*LLG

LLG-Disposable Reagent reservoirs economy, PS



Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. Angled sides and a V-shaped bottom allow maximum recovery of reagents. DNase-, RNase- and pyrogen-free certified.

Capacity ml	Description	PK	Cat. No.
25	non-sterile, bulk	100	6282144*LLG
25	sterile, single-packed	100	6282145*LLG
50	non-sterile, bulk	100	6282146*LLG
50	sterile, single-packed	100	6282147*LLG

Single channel microliter pipettes Acura® manual 835, variable



- Effortless activation
- Smart and reliable volume adjustment
- Precision digital display visible at all times
- Justip™ adjustable tip ejector fits most tips
- Swift-set user calibration system
- Shock, UV-light and autoclaving resistance

Capacity µl	Increments µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
200 - 2000	0.002	0.5	0.2	1	6230186*LLG
200 - 2000*	0.002	0.5	0.2	1	6259412*LLG
500 - 5000	0.01	0.6	0.3	1	9411598*LLG
500 - 5000*	0.01	0.6	0.3	1	7900943*LLG
1000 - 10000	0.01	0.5	0.2	1	9411599*LLG

* Pasteur

Pipette tips Qualitix®, natural, autoclavable



9411449*LLG



9411502*LLG

- DNase, RNase, ATP and pyrogen-free tips
- Compatibility with various pipette brands

Capacity ml	Length mm	Description	PK	Cat. No.
2	115.5	Macro tips	500	9411501*LLG
5	123.2	Macro tips, graduated	500	9411449*LLG
10	150.0	Macro tips	300	9411502*LLG

LLG-Volumetric pipettes, soda glass, class AS, 1 mark, blue graduated

- DIN EN ISO 648, DIN 12687
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring mark and inscriptions in permanent blue enamel



Nominal capacity ml	Tolerance ± ml	Length mm	PK	Cat. No.
1	0.007	310	10	6272207*LLG
2	0.010	330	10	6272208*LLG
3	0.010	360	10	6272209*LLG
4	0.015	360	10	6272210*LLG
5	0.015	400	10	6272211*LLG
10	0.020	440	10	6272212*LLG
15	0.030	455	10	6272213*LLG
20	0.030	510	10	6272214*LLG
25	0.030	520	10	6272215*LLG
50	0.050	540	10	6272216*LLG

Graduated pipettes, AR-glass®, Class AS, amber graduations, type 3



BLAUBRAND® ETERNA, DE-M marking, AR-glass®, DIN EN ISO 835. Type 3 (Zero point at the top), total delivery. Calibrated to deliver (TD, Ex). Waiting time 5 seconds. Ring mark and inscription in ETERNA amber stain.

All BLAUBRAND® graduated pipettes are supplied with a batch number and an accompanying batch certificate in the original packaging.

Volume ml	Graduations ml	Tolerance ± ml	Suitable for cotton plugs	PK	Cat. No.
0.5	0.01	0.006	-	1	9272031*LLG
1	0.01	0.007	-	1	9272032*LLG
1	0.01	0.007	+	1	7018397*LLG
2	0.02	0.010	-	1	9272033*LLG
2	0.02	0.010	+	1	7018398*LLG
5	0.05	0.030	+	1	7060678*LLG
5	0.1	0.030	+	1	9272034*LLG
10	0.1	0.05	+	1	9272036*LLG
20	0.1	0.10	+	1	7018413*LLG
25	0.1	0.10	+	1	9272037*LLG

Pipette controller accu-jet® S



- Precise volume adjustment
- Integrated parking position for parking



For precise pipetting of large and small volumes. The adjustable motor speed allows to switch between free flow and rapid blow-out of the liquid.

- One-hand operation
- For glass and plastic pipettes from 0.1 to 200 ml
- Precise volume setting
- Integrated rest position
- Valve system for exhaust liquid vapours
- Membrane filter and safety valve to protect against fluid penetration
- Robust, powerful motor for fast filling times (25 ml in 3 seconds)
- 8 hours of continuous pipetting with a 10 ml pipette without recharging
- Two-colour battery charge indicator
- Service-friendly and sustainable

Environmental benefits:

Sustainable packaging: Cardboard with approx 90% recycled content
Renewable energy: Production using 100% eco-friendly energy from certified hydro-electric power plants and energy generated on the premises as surplus from a cogeneration unit

Scope of supply:

Pipette controller accu-jet® S, nickel-metal hydride battery, universal adapter (100 - 240 V, 50/60 Hz), with adapters for UK/EU/AUS/US, wall support, 2 sterile spare membrane filters (0.2 µm)

Colour	Description	PK	Cat. No.
anthracite	with universal AC adapter	1	4682331*LLG
berry	with universal AC adapter	1	4682332*LLG
petrol	with universal AC adapter	1	4682333*LLG
amethyst	with universal AC adapter	1	4682334*LLG
anthracite	without universal AC adapter	1	9281073*LLG
berry	without universal AC adapter	1	9281070*LLG
petrol	without universal AC adapter	1	9281071*LLG
amethyst	without universal AC adapter	1	9281072*LLG

LLG-Pasteur Pipettes, PE



Manufactured from transparent PE. Graduated.

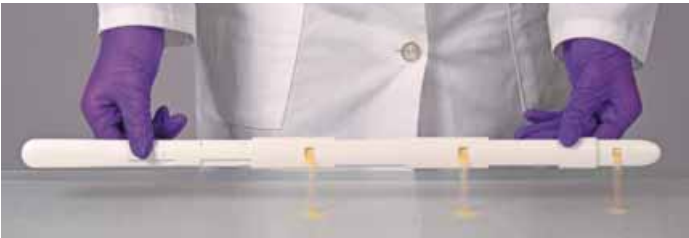
Type	Capacity ml	Length mm	PK	Cat. No.
non-sterile	1	150	500	4672670*LLG
non-sterile	3	150	500	4672671*LLG
sterile, single-wrapped	1	150	1000	9401085*LLG
sterile, single-wrapped	3	150	1000	9401084*LLG



Disposable multi-zone sampler
PharmaDispo, PS



- Simultaneous extraction from different layers or zones
- Ergonomic one-hand operation



The three separate sampling chambers allow simultaneous sampling from different layers or zones. A sliding mechanism with an end stop makes it easy to open and close the sampler.

- Ergonomic one-handed operation
- Clean room manufactured, individually packaged
- 3 chambers
- Length: 500 mm, penetration depth: 320 mm
- Food safe

New



Nominal capacity ml	Sterile	PK	Cat. No.
0.05	-	20	4710598*LLG
0.1	-	20	4710600*LLG
0.5	-	20	4710602*LLG
1	-	20	4710604*LLG
0.01	+	20	4710597*LLG
0.05	+	20	4710599*LLG
0.1	+	20	4710601*LLG
0.5	+	20	4710603*LLG
1	+	20	4710605*LLG

Sampling Dippers DispoDipper
LaboPlast®/SteriPlast®, PP,
blue transparent



Cleanroom-manufactured, scaled scoop for sampling, especially for disposable use. The blue colour makes it perfect for use in the food, animal feed and pharmaceutical industries. The can be sealed liquid-tight after sampling.

- Individually packaged and optionally sterilised by gamma rays (SteriPlast®)
- Production and packaging according to clean room class 7
- Complies with EU food requirements and FDA regulations

Capacity ml	Description	PK	Cat. No.
50	LaboPlast®	20	6290524*LLG
50	SteriPlast®	20	6290525*LLG
100	LaboPlast®	20	4662230*LLG
100	SteriPlast®	20	4662231*LLG
250	LaboPlast®	20	4662232*LLG
250	SteriPlast®	20	4662233*LLG

Micro-Sampler, stainless steel



Without tip. V2A stainless steel. Sterilizable. GMP/FDA compliant. Specially for collecting small amounts of powder. Volumes of 0.2, 0.5, 1, 2, 5 and 10 ml can be taken simply, quickly and cleanly from different depths of sacks or containers. The Micro-Sampler tips are interchangeable so that tips with different volumes can be used.

Accessories for Micro-Sampler



Tips for Micro-Sampler.

Tube diam. mm	Length mm	PK	Cat. No.
12	550	1	9303890*LLG
12	850	1	9303891*LLG
12	1200	1	9303892*LLG
25	550	1	9303895*LLG
25	850	1	9303896*LLG
25	1200	1	9303897*LLG

Nominal capacity ml	For diam. mm	PK	Cat. No.
0.2	12	1	9303900*LLG
0.5	12	1	9303901*LLG
1.0	12	1	9303902*LLG
2.0	25	1	9303905*LLG
5.0	25	1	9303906*LLG
10.0	25	1	9303907*LLG

Laboratory mixer, BagMixer® 400



interscience

For sample preparation with adjustable paddle system

For sample preparation with an easily adjustable paddle system. The BagMixer® is available in 3 sizes and blends all sample types before their microbial analysis.

BagMixer® 400 P with a stainless steel door.

BagMixer® 400 W and 400 CC with see-through glass door.

Click & clean® System (only BagMixer® 400 CC): removable and autoclavable paddles.

All units have a 3-year warranty and life guarantee for shock absorbers and window doors.



400 CC

Type	Volume ml	Dimensions (W x D x H) mm	PK	Cat. No.
400 P	50 ... 400	260 x 390 x 290	1	6204551*LLG
400 W	50 ... 400	260 x 390 x 290	1	6224287*LLG
400 CC	50 ... 400	260 x 420 x 265	1	9570098*LLG

Blender bags, BagSystem®



PolySilk 100

P 400

interscience

BagLight®: Bag without filter, for all microbiological laboratory applications.

BagPage® and BagPage®+: Homogenizer bag with a micro-perforated filter that extends over the entire width of the sample bag (full-size filter).

BagFilter® P: Bag with non-woven filter (side filter). Removal of the filtered solvent with BagPipet®. With pre-cut for pipetting.

BagFilter® XF: Blender bags with lateral filter. Bag with an ultra-fine lateral filter (<20 µm). Suitable for use with capillary analysis systems (PCR, flow cytometry) and samples with fine particles (powder, dust).

Type	Description	PK	Cat. No.
BagLight® PolySilk 100	plain bag, sleeve 25	500	9570075*LLG
BagOpen® 400	bag opener	1	9570084*LLG
BagLight® PolySilk 3500	plain bag, sleeve 25	500	9570077*LLG
BagPage® + 400	full-size filter bag, sleeve 25	500	9570081*LLG
BagFilter® P 400	side filter bag, sleeve 25	500	9570078*LLG
BagFilter® XF 400	side filter bag, sleeve 25	500	6325973*LLG

Disperser OV 625/OV 725 Digital System



VELP
SCIENTIFICA

- Quick and easy installation of the dispersing tools
- Overtemperature alarm and alarm in the event of motor failure
- User-friendly, clearly laid out control panel



OV 625

OV 725

Digital disperser for fast homogenizing, emulsifying, suspending, as well as mixing biological samples, pharmaceuticals, cosmetics, and food. The comfortable rotating knob allows precise electronic speed settings and controls up to 25000 rpm.

- User-friendly, clear control panel shows speed parameters at a glance
- Maximum safety in daily laboratory operation thanks to overtemperature alarm and motor failure alarm
- Special alarm indicates improper installation or absence of a dispersion tool
- Quick and easy dispersing tool installation

Scope of supply: Disperser, stand with double rod, dispersing tool D20-S20C-P-R20S, tool disassembly kit

Type	Volume ml	Rotation speed rpm	Dimensions (W x D x H) mm	PK	Cat. No.
OV 625	0.2 ... 2,500	3,000 ... 25,000	92 x 130 x 280	1	4691690*LLG
OV 725	0.2 ... 2,500	2,000 ... 25,000	100 x 235 x 280	1	4699483*LLG



Ultrasonic baths Elmasonic Xtra



- With stainless steel lid and drain tap
- Automatic safety switch-off with wake-up function
- Eco mode for gentle cleaning with quieter operation

New

Developed for the toughest cleaning tasks, these devices combine the most advanced technology with proven quality and are therefore ideal for applications where high cleanliness and maximum reliability are essential. They effortlessly cope with even the most stubborn dirt such as oils, greases, abrasive pastes or organic contaminants and deliver perfect results. Especially, suitable for continuous use.

- With welded tanks made of cavitation-resistant stainless steel
- Dynamic mode for more intensive cleaning with higher cleaning power
- Sweep and Pulse modes alternately for homogeneous and powerful cleaning
- Eco mode for gentle cleaning with quieter operation
- Timer from 1 to 30 min or continuous operation
- Automatic safety switch-off with wake-up function
- Dry-run detection

Scope of supply: Ultrasonic bath, stainless steel lid, mains cable (2 m), manual



Type	Capacity	External dimensions (W x D x H) mm	PK	Cat. No.
	L			
Xtra 40	4.0	435 x 215 x 330	1	4705729*LLG
Xtra 60	6.3	500 x 215 x 330	1	4705730*LLG
Xtra 120	14.2	500 x 315 x 380	1	4705731*LLG
Xtra 180	19.7	530 x 380 x 380	1	4705732*LLG
Xtra 300	30.0	700 x 380 x 380	1	4705733*LLG

Insert baskets for ultra sonic cleaning units Elmasonic Xtra, Stainless steel



For bath type	Dimensions (W x D x H) mm	PK	Cat. No.
Xtra 40	195 x 105 x 95	1	4688714*LLG
Xtra 60	255 x 105 x 95	1	4688715*LLG
Xtra 120	250 x 195 x 135	1	4688718*LLG
Xtra 180*	280 x 255 x 135	1	4688720*LLG
Xtra 300*	450 x 255 x 135	1	4688721*LLG

* Plastic handles

Sieve cleaning module SRH 4/200



Sieve cleaning module made of stainless steel with integrated rotary unit for cleaning up to 4 test sieves (Ø up to 200/203 mm) in an ultrasonic bath. The inclined position of the test sieves in the SRH 4/200 ensures a better cleaning and rinsing effect. Thus, the test sieves are cleaned gently and without changing the mesh size or fabric tension. The dimensional accuracy and calibration of the test sieves are maintained at 100%.

For	Dimensions (W x D x H) mm	PK	Cat. No.
Xtra 300	675 x 295 x 330	1	7639092*LLG

Safety wash bottles, LDPE



The leakproof venting valve ensures that the excess pressure can escape and dripping is prevented.

- Yellow transparent, with light protection
- Safe filling due to wide-necked opening

Capacity	PK	Cat. No.
ml		
500	1	6251918*LLG

Culture flasks, glass DURAN®, straight neck



DURAN®, Erlenmeyer. Straight neck. Suitable for metal caps. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable.

Capacity	Diam.	Neck diam.	Height	PK	Cat. No.
ml	mm	mm	mm		
100	64	38	114	1	217712401*SCHOTT
200	79	38	138	1	217713209*SCHOTT
250	85	38	149	1	217713603*SCHOTT
300	87	38	161	1	217713903*SCHOTT
500	105	38	183	1	217714402*SCHOTT
1000	131	38	229	1	217715407*SCHOTT

LLG-Absorbent, oil and chemical binder, granules



Universal chemical and oil binder for all liquids, as well as for solvents. Very high absorption capacity (up to 1:75 of aqueous solutions). Almost dust-free granules with colour indicator: colour changes to yellow in contact with acids, to red in contact with alkalis. Disposal according to the pollutant recorded. The safety data sheets of these products are available at www.llg-labware.com.

Capacity	PK	Cat. No.
kg		
0.45	1	4682249*LLG

LLG Weighting Rings, Cast Iron, Vinyl Coated



To stabilise glassware in water or oil baths. The vinyl coating prevents vessels and apparatus from being scratched or marked.

For flasks	Int. diam.	PK	Cat. No.
ml	mm		
100 ... 500	48	1	4682062*LLG
250 ... 1000	56	1	4682063*LLG
500 ... 2000	61	1	4682064*LLG
1000 ... 4000	74	1	4682065*LLG

Scissors, stainless steel



6280910*LLG



6280912*LLG



6280913*LLG



6280914*LLG

Swiss made, high quality finish, suitable for medical purposes. Length: 90 mm.

Form	PK	Cat. No.
Curved body form (miniature work), extra fine, sharp - sharp	1	6280910*LLG
Straight body form (miniature work), extra fine, sharp - sharp	1	4668556*LLG
Curved body form, extra fine, sharp - sharp	1	6280911*LLG
Straight body form, extra fine, sharp - sharp	1	4668573*LLG
Curved body form, round, strong, sharp - sharp	1	6280912*LLG
Curved body form, extra fine, strong, sharp - sharp	1	6280913*LLG
Straight body form, blunt - blunt	1	6280914*LLG

Spatula set, 14-pieces



- In the zipper case, the spatula is attached with loops.
- 2 Spoon spatula, 150 mm, 180 mm
 - 3 Micro-spatula, spoon 5 x 7 mm, 100, 150, 185 mm
 - 3 Double spatula, rigid, 130, 150, 185 mm
 - Micro-powder spatula, flexible, 150 mm
 - Pharmacist spoon, double-ended, 170 mm
 - Chemical spoon, double-sided, 150 mm
 - Weighing spatula, 170 mm
 - 2 Micro-double spatula, spoon-shaped, 130, 150 mm

Type	PK	Cat. No.
HSO 132-00	1	6312442*LLG

Micro spoon spatulas, 18/10 steel



Excellent grade polished stainless steel with one end having a flat spatula and the other end having a micro spoon.

Length	PK	Cat. No.
mm		
150	1	9150820*LLG
180	1	4008451*LLG
210	1	6267816*LLG

Spatulas with a wooden handle, stainless steel



Flexible, long blade as outlined below.

Blade width	Blade length	Length	PK	Cat. No.
mm	mm	mm		
18	100	190	1	9220610*LLG
20	130	230	1	9220613*LLG
22	150	250	1	9220615*LLG
32	200	310	1	9220620*LLG
42	300	415	1	9220630*LLG

LLG-Timer



Top Sellers!



LLG-Timer pro



LLG-Dual-Timer

The LLG-Timer can be used simultaneously as real real-time clock and timer.

The countdown timer also runs when time is visible.

- Big 6-digit LCD
- Digital stopwatch (counting up)
- Short timer (counting down)
- With memory function
- Stopwatch and countdown up to 23 h 59 min. 59 sec.
- Optical and acoustic alarm when a timer expires
- Incl. magnet for mounting, hanging bracket and stand (fold-out)

Specifications

LLG-Timer pro ||
LLG-Dual-Timer, 2-channel ||
LLG-Timer Triple pro
 Dimensions (W x H x D): 82 x 68 x 20.5 mm || 97 x 79 x 21 mm || 68 x 88.7 x 16.2 mm
 Weight (with battery): 82 g || 95 g || 87 g
 Power supply: 2 x AAA 1.5 V (not included)
 Warranty: 12 months



LLG-Timer Triple pro

Type	PK	Cat. No.
LLG-timer pro	1	6311351*LLG
LLG-Dual-Timer	1	6311350*LLG
LLG-Timer Triple pro	1	6313417*LLG

Interval timer with alarm



Benchtop mechanical timer. Suitable for standing, hanging and in addition on the back of two magnets, which allows the fitting of metal parts. The casing and rotary setting knob are white, the dial is black. Running time max. 60mins. Metal movement.

Dimensions (W x H x D): 70 x 70 x 40 mm

Type	PK	Cat. No.
Interval timer with alarm	1	9260020*LLG

LLG-Short period timer with alarm



Easy-to-use combination timer and stopwatch, with large display and alarm function from/up to 99 min. and 59 sec. With a magnet for easy fixing. Battery LR 44 inclusive.

Dimensions (Ø x H): 54 x 16.5 mm
 Weight: approx. 40 g

Type	PK	Cat. No.
LLG-Short period timer with alarm	1	9260150*LLG



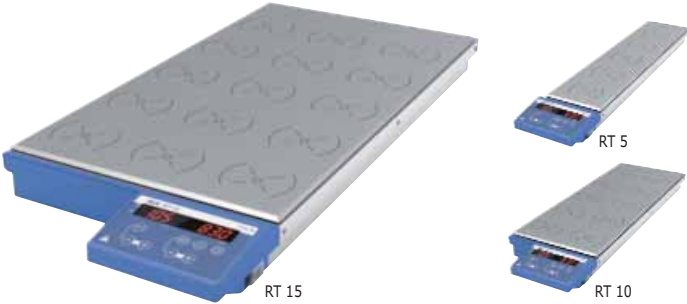
Overhead stirrer RW 20 digital



- Robust, ergonomic design with digital display
 - With constant power drive
 - Two speed ranges for universal use from 60 to 2000 rpm
-
- Technical improvements on the trusted RW20 series design, mechanically controlled
 - With digital display
 - Robust, ergonomic design
 - Constant power-drive
 - Two speed ranges for universal use from 60 to 2000 rpm
 - Hollow-shafted chuck for rotor shaft height adjustment (only when stationary)



Magnetic stirrers/hotplates, multi-position, RT 5/10/15



Digital magnetic hotplate stirrers with 5, 10 or 15 positions, designed for synchronous heating and stirring. The magnetic coil technology provides noiseless and consistent stirring in all positions.

- Homogeneous temperature distribution across the heating plate
- Adjustable reverse operation
- Suitable for continuous operation

Specifications	
Max. stirring quantity per stirring position (H ₂ O):	0.4 l
Distance between stirring places:	90 mm
Speed range:	0 to 1000 rpm
Heating rate (1l H ₂ O in H15):	3 K/min
Temperature range heating plate:	RT to 120 °C
Max. temperature medium (dep. on vessel):	70 °C
Temperature display:	LED
Heat control accuracy:	±1 K
Speed display:	LED line
Set-up plate material:	aluminium alloy
Protection class acc. to DIN EN 60529:	IP 40
Power supply:	100-240 V, 50/60 Hz

Type	Stirring positions	Dimensions (W x D x H)	Plug type	PK	Cat. No.
mm					
RT 5	5	120 x 610 x 60	EU	1	9720603*LLG
RT 5	5	120 x 610 x 60	UK	1	9720604*LLG
RT 5	5	120 x 610 x 60	CH	1	9720605*LLG
RT 10	10	190 x 610 x 60	EU	1	9720606*LLG
RT 10	10	190 x 610 x 60	UK	1	9720607*LLG
RT 10	10	190 x 610 x 60	CH	1	9720608*LLG
RT 15	15	280 x 610 x 60	EU	1	9720609*LLG
RT 15	15	280 x 610 x 60	UK	1	9720610*LLG
RT 15	15	280 x 610 x 60	CH	1	9720611*LLG

Specifications	
Stirring volume max. (H ₂ O):	20L
Viscosity range:	up to 10000 mPas
Motor rating input/output:	70/35 W
Output max. at stirring shaft:	26 W
Max. stirring shaft torque (at 100 rpm.):	150 Ncm
Speed range I (at 50 Hz):	60 to 500 rpm.
Speed range II (at 50 Hz):	240 to 2000 rpm.
Chuck range:	0.5 to 10 mm
Diameter/length of extension arm:	13 mm/160 mm
Dimensions (W x D x H)	88 x 212 x 294 mm
Weight:	3.1 kg
Protection class acc. to DIN EN 60529:	IP 20
Supply requirements:	230 V 50/60 Hz
Tested to DIN EN IEC 61010-1.	

Type	Plug type	PK	Cat. No.
RW 20 digital	EU	1	9816622*LLG
RW 20 digital	UK	1	6227717*LLG
RW 20 digital	CH	1	6239372*LLG
Optional accessories: Stands: R 1825, R 1826, R 1827, R 182 Boss head, FK 1 Flexible coupling, RH 3 Strap clamp, R 301 Stirring shaft protection, Stirring elements: e.g. R 1342, R 1381			

Diagonal blade stirring rotors, 4-blade, stainless steel 1.4404



The 4-blade diagonal blade agitator ensures an axial flow pattern and increasing shear forces are generated on the agitator blades at higher speeds.

Dissolver stirring rotors, stainless steel 1.4404



The dissolver stirring rotor creates a radial flow with high turbulence.

Ø agitator	Ø agitator shaft	Length	PK	Cat. No.
mm	mm	mm		
50	8	350	1	9197006*LLG
100	8	540	1	9197009*LLG

Ø agitator	Ø agitator shaft	Length	PK	Cat. No.
mm	mm	mm		
40	8	350	1	9197007*LLG
80	8	350	1	9197001*LLG

Magnetic mini-stirrers topolino

Without heating. Extremely convenient magnetic mini-stirrer for mixing volumes up to 250 ml.

- Durable, brushless motor
- Infinitely variable speed range
- Strong magnetic coupling



Specifications

Stirring quantity max. (H ₂ O):	250 ml
Speed range:	300 ... 1800 rpm
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity:	80%
Material:	PP
Dimensions Top plate (Ø):	80 mm
Dimensions (W x H x D):	95 x 37 x 115 mm
Weight:	0.32 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Type	Plug type	PK	Cat. No.
Topolino	EU/CH	1	9720220*LLG

LLG-Magnetic stirring bars, cylindrical, PTFE, *eco pack*



Circular, smooth and PTFE-coated.
Packaging size: 10 pieces



Diam.	Length	PK	Cat. No.
mm	mm		
6	10	10	9198910*LLG
3	12	10	9198766*LLG
6	15	10	9198919*LLG
6	20	10	9198920*LLG
6	25	10	9198925*LLG
8	25	10	9198767*LLG
6	30	10	9198930*LLG
6	35	10	9198935*LLG
8	40	10	9198940*LLG
8	45	10	9198945*LLG
8	50	10	9198950*LLG
9	60	10	9198960*LLG
9	70	10	9198970*LLG
9	80	10	9198980*LLG

LLG-Magnetic Stirring Bar Retrievers, PTFE



PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance. The removal of stirring bars from aggressive liquids prevents the loss of stirring bars. Lower end diameter 10 mm.

Diam.	Length	PK	Cat. No.
mm	mm		
8	150	1	9197717*LLG
8	250	1	9197725*LLG
8	270	1	4008501*LLG
8	350	1	9197735*LLG

Magnetic stirrers Guardian™ 5000



- High safety standard
- Temperature and speed change control
- Monitoring of the maximum temperature



e-G52HS07C-K1

e-G52HSRDA-K1

These magnetic stirrers are designed for safety and versatility across research, academic and industrial settings. They offer powerful mixing with premium hardware and software to support users safely and reliably.

- SmartRate™ enables to selection of fast or slow temperature and speed ramp rates
- SmartHeat™ safely controls and monitors the maximum temperature
- SafetyHeat™ assures safety in heating applications with dual monitoring of system health
- With connection for temperature sensor (Pt 100, Pt 1000)
- Run dry protection with an alarm
- Timer from 1 min to 99 h 59 min
- With RS232 interface
- Speed range: 50 ... 1800 rpm

Scope of supply: Hotplate stirrer, temperature sensor Pt 1000, sensor holder kit

Type	Stirring capacity	Dimensions (W x D x H)	PK	Cat. No.
	l	mm		
e-G52HS07C-K1*	20	221 x 329 x 116	1	4702915*LLG
e-G52HS10C-K1*	22	287 x 402 x 118	1	4702916*LLG
e-G52HSRDA-K1**	20	175 x 259 x 108	1	4702917*LLG

* square cover plate, **round cover plate

Retort stand bases



To DIN 12892. Steel, powder-coated, 8 mm thick. Rubber feet. With an M10 bore a hole in the middle of one shorter side.

Width	Depth	PK	Cat. No.
mm	mm		
100	180	1	7200420*LLG
130	210	1	9224013*LLG
160	250	1	6076836*LLG
150	300	1	9224015*LLG
200	315	1	9224017*LLG

Bosshead



9224251*LLG



9224257*LLG

To DIN 12895. Zinc die casting, powder-coated. For vertical and horizontal clamping.

Description	Jaw opening mm	PK	Cat. No.
Bosshead with steel screws	16	1	9224251*LLG
Bosshead with brass screws	16	1	9224245*LLG
Double cross boss head with brass screws	20	1	9224257*LLG

Support rods galvaniser steel



Galvanised steel. External diameter 12 mm. With M10 thread.

Length	PK	Cat. No.
mm		
500	1	9224105*LLG
600	1	9224106*LLG
750	1	9224107*LLG
1000	1	9224110*LLG
1250	1	7095411*LLG
1500	1	9224115*LLG

Clamps



To DIN 12894. B form. Zinc die casting, powder-coated. With round jaws.

Clamping range	PK	Cat. No.
mm		
25	1	9224302*LLG
40	1	9224304*LLG
60	1	9224306*LLG
80	1	9224319*LLG

Support rings, galvanised steel



Closed ring, with bosshead.

Int. diam.	Length	PK	Cat. No.
mm	mm		
50	70	1	4659172*LLG
70	70	1	9225081*LLG
100	70	1	6238844*LLG
130	70	1	7651881*LLG

LLG-Splash heads, straight, borosilicate glass 3.3



Straight, with standard ground cone and socket.

Cone	Socket	PK	Cat. No.
NS	NS		
14/23	14/23	2	4686184*LLG
29/32	29/32	1	4686185*LLG

Evaporating flasks with conical ground joint, DURAN®



Especially for rotary evaporators, with a centre neck and conical joint, pear-shaped.

Nominal capacity ml	Socket	Flask diam. mm	PK	Cat. No.
	NS			
50	29/32	56	1	9196020*LLG
100	29/32	60	1	9196024*LLG
250	29/32	81	1	9196036*LLG
500	29/32	101	1	9196044*LLG
1000	29/32	126	1	9196054*LLG
2000	29/32	158	1	9196063*LLG

Rubber Balloon with Hose Connection



- Latex (NR)
- For Rotary Evaporators
- Suitable for mixture or collection and short-term storage of gases
- For control of air/gas entry or tread out of gas in instruments

Size	Volume	PK	Cat. No.
	litres		
5	approx. 1.5 ... 2	1	9115515*LLG
8	approx. 3.5 ... 4	1	7652667*LLG

Rotary Evaporator Hei-VAP Core



- Clear display
- Residual heat warning
- Ergonomic handles



An operating concept reduced to the essentials: clear and with direct access to the basic parameters of rotation speed and heating bath temperature at all times. Without vacuum control. For integration into an existing vacuum system or for configuration with an optional vacuum controller.

- Handlift model
- Clear digital display for monitoring the current values and a separate button to display the set values
- Two separate operating knobs for adjusting the rotation speed and heating temperature with an LED ring light system for activity indication
- Activated lock feature prevents inadvertent adjustments
- Residual heat indicator when >50 °C
- Standby button stops all functions and lifts the evaporator flask out of the heating bath on motor lift models

Scope of supply: Flask clamp Easy-Clip, vapour tube, ventilation cap, heating bath, 1-l receiving flask, 1-l evaporating flask. Supplied condenser as indicated.

Specifications

Drive

Speed range:	10 ... 280 rpm
Speed display:	Digital
Stroke displacement:	155 mm
Protection class:	IP 20

Heating bath

Bath volume:	4.5 L
Temperature range:	Ambient ... 210 °C
Power input:	1300 W
Protection class:	IP 67

General data

Max. size evaporating flask:	5 L
Condensing surface:	1400 cm ²
Condensing surface XL condenser:	2200 cm ²
Power supply:	230 V

Description	PK	Cat. No.
G3 Vertical condenser	1	4666086*LLG

Mini centrifuge LLG-uniCFUGE 3 pro



This compact Mini centrifuge offers versatility, simplicity, safety and ease of usage in just one package and is especially suitable for microfiltration, cell separations and spin-down applications.

- Easy rotor change via magnetic fixing
- Microprocessor-controlled regulation for load-independent accuracy and integrated imbalance control
- Digital display
- Integrated timer
- Starts and stops in seconds
- Lid safety interlock
- Smooth and silent, discreet running

The following types of vessels can be used:

8 x 1.5 ml microtubes
8 x 2 ml microtubes
16 x 0.2 ml PCR tubes

By using the fitting adapter:

8 x 0.2 ml microtubes
8 x 0.5 ml microtubes

Scope of supply: Centrifuge, rotor for 8 x 1.5/2 ml tubes, rotor for 16 x 0.2 ml PCR tubes, adapter for 8 x 0.2/0.5 ml tubes, power adapter (24 V, 1.5 A)

Specifications

Max. RCF:	2000 x g
Max. speed:	1000 ... 6000 rpm
Motor:	brushless DC motor
Max. load:	8 x 1.5/2 ml or 16 x 0.2 ml PCR tubes
Timer:	1 ... 25 min, continuous
Dimensions (W x D x H):	162 x 157 x 116 mm
Weight:	1.1 kg
Power supply:	100 ... 240 VAC, 50/60 Hz

Description	Plug type	PK	Cat. No.
LLG-uniCFUGE 3 pro EU		1	6263522*LLG
LLG-uniCFUGE 3 pro UK		1	6263527*LLG

LLG-Microcentrifuge tubes, PP, with Safe-Lock lid

With a tight-fitting Safe-Lock lid, which prevents unintentional opening of the lid during centrifugation.

- Frosted labelling area on the lid
- RNase- and DNase-free



Volume	Form	Temp. range °C	PK	Cat. No.
1.5	Conical	-86 ... 121	1000	6490852*LLG
2.0	Round	-86 ... 121	1000	6490853*LLG

Mikrocentrifuge Frontier™



- With unbalance sensor
- Powerful, brushless induction motor
- 10 acceleration and deceleration rates



FC5513-K

Compact high-speed microcentrifuge with modern touch-wheel interface. Ideal suited for general laboratory applications.

- Backlit, two-lined LCD
- Powerful brushless induction motor
- 10 acceleration and deceleration rates
- Memory for up to 99 parameters
- Imbalance sensor
- Small footprint

Scope of supply: Centrifuge, angle rotor for 24 x 1.5/2.0 ml tubes or with angle rotor for 18 x 1.5/2.0 ml tubes

Specifications

Max. RCF:	17317 x g 15994 x g 17317 x g
Max. Speed:	20 ... 13500 200 ... 14000 200 ... 13.500 rpm
Max. Load:	24 x 1.5/2.0 ml 18 x 1.5/2.0 ml 24 x 1.5/2.0 ml
Timer:	10 s ... 99 h 59 min 59 s, continuous
Power consumption:	170 W
Dimensions (W x D x H):	277 x 356 x 236 mm
Weight:	13.1 kg
Power supply:	230 V, 50/60 Hz

Type	PK	Cat. No.
FC5513-K	1	6323158*LLG
FC5513-L	1	4699640*LLG
FC5513R	1	4699641*LLG

Fixed angle rotors for micro centrifuges Frontier™ FC5513

Type	For tubes	Lid	PK	Cat. No.
R-A24X2/13MB	24 x 1.5/2.0 ml	Aerosol-tight	1	6324563*LLG

Vortex mixers ZX4/WIZARD/TX4 with IR sensor



- IR sensor for sample detection
- Very good chemical resistance



Vortexers with patented IR sensor for sample recognition: the shaking process starts automatically when the sample tube approaches the mixing cup head. This enables fatigue-free working, as the sample doesn't have to be pressed on the device.

- For IR sensor and continuous operation
- Electronic speed control
- Adjustable shaking speeds up to 3000 rpm
- Very good chemical resistance

ZX4: Analog vortex mixer

WIZARD: Compact, analogue vortex mixer

TX4: Digital vortex mixer with timer and LCD

Scope of delivery: Vortex mixer with mixing head

Specifications

Type of movement:	orbital
Orbital diameter:	4.5 mm
Speed range:	0 ... 3000 rpm
Input power	15 W
IP code:	IP 42
Power supply:	100 ... 240 V, 50 ... 60 Hz
Warranty:	3 years

Type	PK	Cat. No.
ZX4	1	7971461*LLG
ZX4 with foam stands	1	4666714*LLG
WIZARD	1	4666536*LLG
TX4	1	4666537*LLG

LLG-Centrifuge tubes, PP



Conical Polypropylene tubes with very good thermal, mechanical and chemical stability.



Centrifugation capacity (Max. RCF): 6000 x g
Height: 120 mm

Description	Capacity ml	Diam. mm	PK	Cat. No.
sterile, single packed*	15	17	50	9316062*LLG
aseptic, bulk pack	15	17	50	6263886*LLG
big pack	15	17	500	9316063*LLG
sterile, single packed*	50	30	50	9316064*LLG
big pack	50	30	500	9316065*LLG
aseptic, bulk pack	50	30	50	6263887*LLG

*Cytotoxicity-free, DNase/RNase- and human DNA-free.

Test tube shaker LLG-uniTEXER 1 pro

Ideal for mixing small sample volumes in vessels up to 30 mm in diameter.



- Touch function for short-time operation
- Adjustable speed control for excellent mixing results
- Suction cups ensure a secure hold during vortexing
- Extremely small footprint

Scope of supply: Test tube shaker, universal power supply including adapter for EU and UK



Type of movement:	orbital
Shaking stroke:	4.5 mm
Speed:	0 ... 4200 rpm
Dimensions (WxDxH):	120 x 120 x 103 mm
Permitted ambient conditions:	4 ... 45 °C, 80% RH
Rated capacity:	9 W
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 43

Type	PK	Cat. No.
LLG-uniTEXER 1 pro	1	6263509*LLG

Microtitre shaker LLG-uniPLATESHAKER 1



The device can be operated in a cold room. Universal fit comes with interchangeable clamps for different microplate sizes.

Scope of supply: shaker, mains adapter, 2 attachments (foam attachment and attachment for microtitre plates), 6 clamps

Specifications

Type of movement:	orbital
Orbital diameter:	2 mm
Speed range:	300 ... 1800 rpm
Max. load:	1 kg
Motor:	brushless DC motor
Timer:	1 ... 99 min, continuous
Power consumption:	15 W
Permissible ambient temperature:	4 ... 40 °C
Dimensions (W x D x H):	127 x 85 x 86 mm
Weight:	1.4 kg
Power supply:	100 ... 230 V, 50/60 Hz

Type	Plug type	PK	Cat. No.
LLG-uniPLATESHAKER 1	EU	1	6263488*LLG
LLG-uniPLATESHAKER 1	UK	1	6263489*LLG

Analytical balances Entris® II

SARTORIUS



- Quality "Made in Germany"
- With isoCAL
- High chemical resistance



With many convenience functions for efficiency and accuracy in the laboratory. Quality "Made in Germany".

- Modern sensors ensure very fast stabilisation time
- Automatic, internal calibration and adjustment function (isoCAL) for all "i" models
- Weighing platform is made of stainless steel
- Excellent readability and operability with a hybrid touch display
- Automatic detection of connected Sartorius accessories

High weighing space, easy access to weighing platform through side doors and upper sliding door. Specially coated windscreen against an electrostatic charge. All models are also available as approved versions for EU/France.

Scope of supply: Analytical balance, power supply unit, display protection cover

Specifications

Readability:	0.1 mg
Reproducibility:	±0.1 mg
Linearity:	±0.06 mg
Weighing platform:	Ø 90 mm
Weighing space height:	240 mm
Dimensions (W x D x H):	219 x 317 x 345 mm
Weight:	6.2 kg
Power supply:	100 ... 240 V, 50 ... 60 Hz

Type	Weighing range	PK	Cat. No.
	g		
BCE64-1S	0.0001 ... 60	1	4669165*LLG
BCE64i-1S	0.0001 ... 60	1	4669168*LLG
BCE124-1S	0.0001 ... 120	1	4669109*LLG
BCE124i-1S	0.0001 ... 120	1	4669112*LLG
BCE224-1S	0.0001 ... 220	1	4669125*LLG
BCE224i-1S	0.0001 ... 220	1	4669128*LLG

Portable Balances, Scout® SKX



SKX421



SKX8200

- Superior overload protection and practical stackable design for convenient storage
- Bright backlit LCD and 4-button operation make the new Scout easy to see and use
- Multiple connectivity options are available for data logging and communication
- Fast weighing speed and high resolution deliver repeatable and reliable results
- Construction: ABS housing, stainless steel pan, replaceable in-use cover

Type	Capacity	Plate dimensions	PK	Cat. No.
	g	mm		
SKX123	120	diam. 93	1	6281344*LLG
SKX222	220	diam. 120	1	6281345*LLG
SKX422	420	diam. 120	1	6281346*LLG
SKX622	620	diam. 120	1	6281347*LLG
SKX1202	1200	170 x 140	1	6281348*LLG
SKX2202	2200	170 x 140	1	6281349*LLG
SKX421	420	diam. 120	1	6281350*LLG
SKX621	620	170 x 140	1	6281351*LLG
SKX2201	2200	170 x 140	1	6281352*LLG
SKX6201	6200	170 x 140	1	6281353*LLG
SKX8200	8200	170 x 140	1	6281354*LLG

LLG-Weighing bottles with NS lid, Borosilicate glass 3.3



With writing area.
Available in tall or low shape.

Capacity	Form	Diam.	Height	NS	PK	Cat. No.
ml		mm	mm			
3	Low	25	25	19/12	1	9300151*LLG
10	Low	35	30	29/12	1	9300152*LLG
11	Low	40	25	34.5/12	1	9300150*LLG
20	Low	50	30	45/12	1	9300153*LLG
29	Low	60	30	50/12	1	9300154*LLG
9	Tall	25	40	19/12	1	9300160*LLG
19	Tall	30	50	24/12	1	9300161*LLG
42	Tall	35	70	29/12	1	9300162*LLG
66	Tall	40	80	34.5/12	1	9300163*LLG
105	Tall	50	80	45/12	1	9300164*LLG

pH meter FiveGo™ F2



F2-Standard kit

Portable pH meter for field work and laboratories. Measurement made easy: A large, well-structured display, intuitive button arrangement and simple menu ensure measurements can be performed in just a few clicks.

Scope of delivery:

F2-Meter: Meter only

F2-Standard kit: Meter with LE438 sensor

F2-Food kit: Meter with LE427 sensor, carrying case

Specifications

pH

Measuring range: 0.00 ... 14.00

Resolution: 0.01

Accuracy: ±0.01

mV

Measuring range: -1999...1999 mV

Resolution: 1 mV

Accuracy: ±1 mV

Temperature

Compensation: ATC and MTC

Calibration: 3 points, 4 predefined buffer groups

Memory size: 200 measurements, current calibration

Temperature

Measuring range: 0 ... 100 °C

Resolution: 0.1 °C

Accuracy: ±0.5 °C

Dimensions (W x D x H): 188 x 77 x 33 mm

IP code: IP 67 (meter + electrode)

Type	PK	Cat. No.
F2-Meter	1	6280111*LLG
F2-Standard kit	1	6280112*LLG
F2-Field kit	1	6280113*LLG

Technical pH buffer solutions



Colour coded. Tested and certified according to ISO 17025 at 25 °C. Tolerance ±0.02 pH. Information on temperature dependence, batch numbers and expiry date are printed on the label. All buffers are supplied with a detailed certificate of analysis which includes traceability to N.I.S.T. (N.I.S.T. SRM(s) lot number is stated on the certificate).

Capacity	pH-value	Colour	PK	Cat. No.
ml	at 25 °C			
500	2.00	Red	1	TB200*REA
500	4.01	Red	1	TB401*REA
500	4.60	Yellow	1	TB460*REA
500	7.00	Yellow	1	TB700*REA
500	9.21	Blue	1	TB921*REA
500	10.00	Blue	1	TB100*REA

Conductivity meter FiveGo™ F3



F3-Standard kit

Portable conductivity meter for fieldwork. Measurement made easy: A large, well-structured display, intuitive button arrangement and simple menu ensure measurements can be performed in just a few clicks.

Supplied with:

F3-Standard kit: Meter with LE703 sensor

F3-Field kit: Meter with LE703 sensor, carrying case

Specifications

Conductivity

Measuring range: 0.00 µS/cm ... 200 mS/cm

Resolution: Automatic range

Accuracy: ±0.5% of the measured value

Temperature

Measuring range: 0 ... 100 °C

Resolution: 0.1 °C

Accuracy: ±0.5 °C

TDS

(Total Dissolved Solids)

Measuring range: 0.01 mg/l ... 200 g/l

Resolution: Automatic range

Temperature compensation: Linear 0.00 ... 10.00%/°C, reference temperature 20 and 25 °C

Calibration: 1 point, 3 predefined standards

Memory size: 200 measurements, current calibration

Dimensions (W x D x H): 188 x 77 x 33 mm

IP code: IP 67 (meter + sensor)

Type	PK	Cat. No.
F3-Standard kit	1	6280116*LLG
F3-Field kit	1	6280117*LLG

Technical pH buffer solutions, certified reference material (CRM)



Certified reference material



Certified reference material according to ISO 17034. The pH buffer solutions are colour-coded and the uncertainty of measurement of ±0.02 pH was tested at 25 °C. Supplied with detailed certification report which includes traceability to NIST. Lot numbers and expiry dates are printed on the label.

Capacity	pH-value	Colour	PK	Cat. No.
ml	at 25 °C			
500	4.01	red	1	CRMTB401*REA
500	4.60	red	1	CRMTB460*REA
500	7.00	yellow	1	CRMTB700*REA
500	9.21	blue	1	CRMTB921*REA
500	10.00	blue	1	CRMTB100*REA

LABORTOPS

Laboratory instrument inoLab® pH 7110



- Fast and reliable pH/mV measurement values
- With AutoRead function
- Large LCD display



Basic pH/mV laboratory instrument for all tasks where reliable, accurate readings are required quickly and easily. With a large LCD segment display and an easy-to-read keyboard. The AutoRead function ensures correct and repeatable measurement results. A built-in timer reminds the user of periodical calibration.

Scope of supply: Instrument, mains power adapter, stand

Specifications

Ranges:	All values ± 1 digit
pH:	-2.0 ... 20.0 ± 0.1 pH -2.00 ... 20.00 ± 0.01 pH -2.000 ... 19.999 ± 0.005 pH
mV:	$\pm (1200.0 \pm 0.3)$ mV $\pm (2000 \pm 1)$ mV
Calibration:	1-, 2- or 3 point WTW technical buffer or DIN/NIST
Temperature:	-5.0 ... 105.0 $^{\circ}\text{C} \pm 0.1$ $^{\circ}\text{C}$
Power supply:	Universal power supply 100 to 240 V, 50/60 Hz, 4 x 1.5 V AA or 4 x 1.2 V NiMH rechargeable batteries

Type	Description	PK	Cat. No.
pH 7110	Stand-alone instrument with DIN connection	1	9920090*LLG
pH 7110 BNC	Stand-alone instrument with BNC connection	1	9920093*LLG
pH 7110 SET 2	Instrument incl. SenTix® 41, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9920091*LLG
pH 7110 SET 4	Instrument incl. SenTix® 81, buffer 4.7 / 10.01 and 3 mol/l KCl	1	9920092*LLG