

LABORTOPS

valid until 30.06.2025

SCROLL VACUUM PUMP SCROLLVAC 3S PLUS

- Wide range of applications
- Long life cycle
- Oil-free

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Combi infrared and insertion thermometer TLC 750i-V2



Handy infrared thermometer for non-contact measurement of surface temperature or core temperature with the foldable insertion probe.

- Practical pocket size for daily use
- Backlit display allows reading in a dark environment
- Rotating display makes it easy to read the measured value
- Double laser pointer
- Optics 8:1
- HACCP and DIN EN 13485 compliant, incl. calibration certificate
- Waterproof housing (IP 65)

Temperature infrared:	-50 ... 250 °C
Resolution infrared:	0.1 °C
Accuracy sensor:	±0.5 °C (-30 ... 99 °C)
Accuracy infrared:	±1.0 °C (0 ... 65 °C)
Dimensions (WxDxH):	44 x 170 x 23 mm
Weight:	140 g

Type	PK	Cat. No.
TLC 750i-V2	1	6491695*LLG

LLG-General-purpose thermometers, green filling



Glass, solid stem, with loop, white backed. Environmentally friendly thermometer, with biodegradable, green spirit filling.

Measuring range	Graduations	Length	PK	Cat. No.
°C	°C	mm		
-10/0 ... 110	1.0	300	1	9235275*LLG
-10/0 ... 110	0.5	300	1	9235276*LLG
-10/0 ... 150	1.0	300	1	9235277*LLG
-10 ... 250	2.0	300	1	9235278*LLG
-10 ... 360	2.0	300	1	9235279*LLG

Temperature meter testo 110 Food

- Precise temperature measurement
- HACCP compliant
- Reports as PDF



testo 110 Food Set

1-channel temperature measuring device for simple, fast and precise temperature measurement with external NTC or Pt100 temperature sensors. The temperature measuring device is certified to EN 13485 and HACCP-compliant.

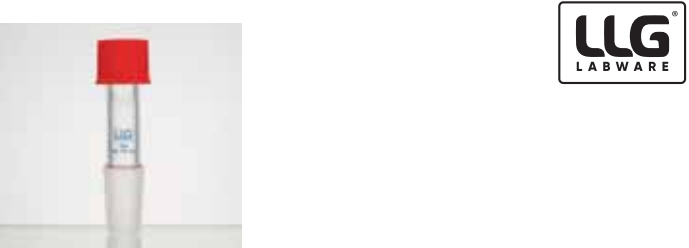
Scope of supply testo 110 Food: Temperature meter, protective case TopSafe, calibration protocol, batteries (3 x AA).

Scope of supply testo 110 Food Set: Temperature meter, stainless steel food probe, protective case TopSafe, calibration protocol, batteries (3 x AA).

Protective case: with mounting magnets and stand-up bracket. Protects the device from impact and dirt.

Type	External dimensions (W x D x H) mm	Dim. Probe (Ø x L) mm	PK	Cat. No.
testo 110 Food	60 x 28 x 135	-	1	4701464*LLG
testo 110 Food Set	60 x 28 x 135	4 x 125	1	4701465*LLG
Protective case	-	-	1	4701466*LLG

LLG-Adapter for thermometer, borosilicate glass 3.3



Adapter for securing thermometers. With compression screw cap and O-ring.

Ground size	Adapter bore diam. mm	Neck thread GL	PK	Cat. No.
NS				
14/23	6	14	2	4686179*LLG
29/32	6	14	2	4686178*LLG

Scroll vacuum pump SCROLLVAC 3S plus



- Low final pressure
- Low noise
- Low maintenance

Leybold

New



The oil-free, dry-compressing vacuum pump works on the principle of a scroll compressor and combines a high pumping speed with a good ultimate vacuum. Ideal for small laboratories as well as applications in research and development. The integrated exhaust valve provides effective protection against a rapid pressure rise in the event of a power failure.

- Powerful, dry-operating alternative to diaphragm pumps
- Can be operated horizontally or vertically
- Compact design with low-weight
- Max. pump speed of 3 m³/h
- Build-in manual gas ballast
- Long maintenance intervals due to oil-free operation, low maintenance
- Low vibration and quiet operation

Specifications

Ultimate vacuum:	0.1 mbar
Ultimate vacuum with gas ballast:	0.15 mbar
Connection on suction side:	KF DN 16
Noise level:	54 db(A)

Type	Plug type	Dimensions (W x D x H) mm	PK	Cat. No.
SCROLLVAC 3S plus	EU	158 x 224 x 231	1	4700564*LLG
SCROLLVAC 3S plus	UK	158 x 224 x 231	1	6523175*LLG

Digital vacuum gauge THERMOVAC TM 101

Leybold



The temperature-compensated vacuum gauge is used for absolute pressure measurement. It can be used as a mobile hand-held gauge or as an instrument permanently integrated into a system. The integrated memory function stores up to 2000 measured values.

- For rough and fine vacuum measurements
- Large display
- Can be used directly in a vacuum
- Adjustable gas type correction factor
- Pressure unit selectable between mbar, Torr, and Pascal
- Incl. 9 V block battery 6LR61

Type	Dimensions (W x D x H) mm	PK	Cat. No.
THERMOVAC TM 101	60 x 25 x 120	1	4700538*LLG

Diaphragm vacuum pumps LABOPORT® N820G/N840G, chemically-resistant

KF



N820G

The compact pumps feature a control knob for manual adjustments of the flow rate, making them well-suited to a wide variety of applications. Due to the manual rotational speed control, the pumps are quiet, very energy efficient, and can be optimally adjusted following the application.

- Easy-to-clean surface
- The combination of PTFE pump head and PTFE-coated diaphragm makes the pump ideal for extremely aggressive/corrosive gases and vapours
- High level of compatibility with vapour and condensation
- Integrated gas ballast valve
- 3-color status display: In operation/Stand-by/Error
- ATEX-compliant by II 2/-G IIB+H2 T3 internal atmosphere only

Specifications

Ultimate vacuum (abs.):	6 mbar
Operating pressure:	0.1 bar
Connectors for tube:	ID 9/10 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	TFM™ PTFE
Diaphragm:	PTFE-beschichtet
Valves:	FFPM

Type	Flow rate L / min.	Dimensions (W x D x H) mm	PK	Cat. No.
N820G	20	163 x 259 x 220	1	4672375*LLG
N840G	34	177 x 289 x 240	1	4672376*LLG

Vacuum tubing, rubber (NR)

DEUTSCH & NEUMANN



Red. Durometer 45 Shore A.

Int. diam. mm	Wall thickness mm	PK	Cat. No.
6	5	10	9205812*LLG
8	5	10	9205814*LLG

Mini coolers, PC



Mini coolers are designed to protect a wide range of solutions (enzymes, DNA, RNA, cell suspensions) by helping to maintain freezer temperatures on the lab bench. Durable polycarbonate filled with non-toxic gel. Mini coolers hold twelve 0.5 ml to 2.0 ml tubes.

Colour	Temperature-maintained on lab bench	PK	Cat. No.
Red	0 °C, up to 60 min	1	6802253*LLG
Yellow	-20 °C up to 60 min	1	7300442*LLG
White	-70 °C up to 45 min	1	7090437*LLG

LLG-Multipurpose containers, PP, with screw cap



Made in the EU



New



Transparent multipurpose containers with red screw caps made of PE. Universally applicable, e.g. for storing or transporting samples. With graduation and frosted labelling field.

For research and development only.

Nominal capacity ml	Sterile	PK	Cat. No.
60*	no	500	4694707*LLG
60*	yes	500	4694708*LLG
120*	no	250	4694710*LLG
120*	yes	250	4694711*LLG
60	no	600	4694706*LLG
120	no	300	4694709*LLG

* individually wrapped

Measuring jugs, PP



Transparent. With a stable handle and easily readable, printed black graduations on both sides. Therefore, the volume is equally visible for left- and right-handers. To preserve markings, do not clean at temperatures exceeding 60 °C.

- Stackable
- Food-safe product according to regulation (EU) No. 10/2011

Nominal capacity ml	Grad. ml	Ext. diam. mm	Height mm	PK	Cat. No.
250	5	75	115	1	9275738*LLG
500	10	97	140	1	9275740*LLG
1000	10	125	167	1	9275742*LLG
2000	20	148	212	1	9275744*LLG
3000	50	170	242	1	9275746*LLG

Wide-mouth bottles, HDPE, with screw cap, PP



Ideal for sampling, storing, and transporting liquid, paste and granulated products. Food safe. The batch certificate is available to download. Transparent.

Capacity ml	Diam. mm	Thread external diam. mm	Height mm	PK	Cat. No.
30	32	29.6	70	10	6253645*LLG
60	40	29.6	82	10	6253646*LLG
100	51	36.9	89	10	6253178*LLG
125	51	36.9	104	10	6252222*LLG
150	51	36.9	116	10	6254042*LLG
250	60	43.1	140	10	6256221*LLG
500	75	53.0	161	10	6252111*LLG
1000	90	61.6	205	5	6252112*LLG
2000	120	61.6	242	5	6253038*LLG

Lab storage system MagLab, magnetic



MagLab Series

Features four powerful magnets for a secure hold onto most metal surfaces, or create your holding point with the metal plate provided.

- MagRack holds four 50 mL tubes and nine 15 mL tubes (Part of the MagLab series Cat. No. 6.254 581, not to be purchased individually)
- MagWipe holds a wipe box (110 x 210 mm)
- MagPette holds two common pipettors
- MagBox holds miscellaneous accessories
- MagLab Series incl. MagRack, MagWipe, MagPette, MagBox
- Incl. self-adhesive metal plate

Type	Colour	Dimensions (W x D x H) mm	PK	Cat. No.
MagLab Series	assorted	-	4	6254581*LLG
MagWipe	green	130 x 91 x 98	1	6254583*LLG
MagPette	purple	131 x 112 x 76	1	6254584*LLG
MagBox	orange	130 x 78 x 102	1	6254585*LLG

Assortment box, ABS



Kit B

- Replaceable inserts
- Compartment for a sharps container
- With supply drawer
- Built-in side pockets offer additional storage space
- The handle includes a soft rubber grip to reduce hand and finger strain

Scope of supply: Tray, 13 or 16 mm OneRack® tube rack, 2 x disposable polystyrene inserts

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.
Kit A	Insert for 13 mm Tube Rack	429 x 265 x 172	1	6243252*LLG
Kit B	Insert for 16 mm Tube Rack	429 x 265 x 172	1	6238550*LLG

Label printer DYMO® LabelWriter™ 550 Turbo



- Ethernet interface enables LAN network connectivity

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

Max. label width:	59 mm
Print speed:	90 labels/min.
Weight:	645 g
Power supply:	24 V, 2.5 A

Type	External dimensions (W x D x H) mm	PK	Cat. No.
DYMO® LabelWriter™ 550 Turbo	127 x 187 x 136	1	4687586*LLG

High-performance labels for DYMO® LabelWriter™ 550 Turbo, white

LW Labels with industrial adhesive for secure, permanent adhesion to many surfaces, such as paper, plastic, metal, wood, and glass.

- Scratch and tear-resistant plastic material
- Label printing with direct thermal printing technology
- Pre-assembled labels for quick and easy application
- Moisture resistant
- BPA-free
- Temperature resistant from -18 to 50 °C



Package contents	Dimensions (D x W) mm	For	PK	Cat. No.
1 roll with 800 labels	32 x 57	4.687 583	1	4687583*LLG
2 rolls with 450 labels	19 x 64	4.687 578	1	4687578*LLG
2 rolls with 350 labels	25 x 89	4.687 579	1	4687579*LLG
2 rolls with 850 labels	25 x 25	4.687 580	1	4687580*LLG

Laboratory toolbox



- Complete set
- For routine works

You can find a detailed description of the contents of the laboratory case in our shop.

Type	PK	Cat. No.
PROXXON 23650	1	9306125*LLG

Hydrogen generator Precision Hydrogen SL 100

The smallest hydrogen generator in the Precision Hydrogen SL line safely and continuously produces laboratory-quality hydrogen with a purity of 99.9995% for GC-FID. The generator is available either by manual or automatic water filling.

- Minimal hydrogen storage in the system
- Very low maintenance requirements
- Auto-shutdown fail-safe

Specifications

Purity:	99.9995%
Max. pressure:	6.9 bar
Required water quality:	<1.0 µS/cm
Gas connection:	1 x 1/8" Swagelok
Dimensions (W x D x H):	160 x 355 x 250 mm
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	2 years



Small and compact



Description	Colour	Flow rate L / min.	PK	Cat. No.
With manual water fill	black	0.1	1	4678137*LLG
With manual water fill	white	0.1	1	4678138*LLG
With auto water fill	black	0.1	1	4678139*LLG
With auto water fill	white	0.1	1	4678140*LLG

LLG-Headspace-Precision Thread Vials ND18



Type	Capacity ml	o.d. x Height mm	Colour	Form	PK	Cat. No.
(1)	10	22.5 x 46	clear	rounded bottom	100	9003466*LLG
(2)	20	22.5 x 75.5	clear	rounded bottom	100	4008270*LLG

LLG-Magnetic Universal Screw Seals ND18 for Precision Thread Vials ND18



Type	Caps	Septa	Hardness	Thickness mm	PK	Cat. No.
(3)	silver, center hole	Butyl red / PTFE grey	55° shore A	1.6	100	4008269*LLG
(4)	silver, center hole	Silicone blue transparent/PTFE white	45° shore A	1.3	100	6241111*LLG
(5)	silver, center hole	Silicone white / PTFE blue	55° shore A	1.5	100	4008268*LLG
(6)	silver, without hole	Butyl red / PTFE grey	55° shore A	1.6	100	6262513*LLG
(7)	silver, without hole	Silicone white / PTFE red UltraClean	45° shore A	1.3	100	6267122*LLG

Inlet Liner and o-rings for Agilent GC

Inlet Liner for Agilent 5890, 6850, 6890, 7890 and HP4890.

- 5 or 25 packs, individually packed
- Complete with instrument-appropriate o-rings and sealing rings
- Each pack is supplied with quality test results



6.236 751



6.223 553



Description	Ext. diam. mm	Int. diam. mm	Length mm	PK	Cat. No.
Split, with Quartz wool	6.3	4.0	78.5	5	9003576*LLG
Split / Splitless with Single Taper (Quartz Wool)	6.3	4.0	78.5	5	6236751*LLG
Split/Splitless FocusLiner®	6.3	4.0	78.5	25	6239332*LLG
Split/Splitless Tapered Focus Liner®	6.3	4.0	78.5	5	6223553*LLG
Split/Splitless FAST FocusLiner®	6.3	2.3	78.5	5	6223554*LLG

TFF cassettes Vivaflow® SU series

SARTORIUS



For research and development

Tangential flow filtration (TFF) cassettes for ultrafiltration and diafiltration of medium sample volumes. Specially designed for applications in research and development laboratories. High-performance membranes with a membrane area of 50 cm² ensure maximum recovery. No flushing or cleaning is required.

New



Individual run, 0.2 µm

For the individual run of a cassette with a volume of 100 to 500 ml.

Scope of supply:

- 2 x cassettes,
- 2 x feed tubing,
- 2 x permeate tubing,
- 2 x pressure indicator,
- 2 x retentate tubing with restrictor

Pore size µm	Dimensions (W x D x H) mm	Material Membrane	PK	Cat. No.
0.2	98 x 13 x 116	PES	2	4704918*LLG



Serial run, 0.2 µm

For the serial run of both cassettes with 500 to 1000 ml volume.

Scope of supply:

- 2 x cassettes,
- 1 x feed tubing,
- 1 x serial connector,
- 2 x permeate tubing,
- 1 x pressure indicator,
- 1 x retentate tubing with restrictor

Pore size µm	Dimensions (W x D x H) mm	Material Membrane	PK	Cat. No.
0.2	98 x 13 x 116	PES	2	4704919*LLG

Individual run, 2-1000 kDa MWCO

For the individual run of a cassette with a volume of 100 to 500 ml.

Scope of supply:

- 2 x cassettes,
- 2 x feed tubing,
- 2 x permeate tubing,
- 2 x pressure indicator,
- 2 x retentate tubing with restrictor

MWCO kDa	Dimensions (W x D x H) mm	Material Membrane	PK	Cat. No.
5	98 x 13 x 116	PES	2	4704904*LLG
10	98 x 13 x 116	PES	2	4704906*LLG
30	98 x 13 x 116	PES	2	4704908*LLG
50	98 x 13 x 116	PES	2	4704910*LLG
100	98 x 13 x 116	PES	2	4704912*LLG
300	98 x 13 x 116	PES	2	4704914*LLG
1000	98 x 13 x 116	PES	2	4704916*LLG
2	98 x 13 x 116	RC	2	4704920*LLG
5	98 x 13 x 116	RC	2	4704922*LLG
10	98 x 13 x 116	RC	2	4704924*LLG
30	98 x 13 x 116	RC	2	4704926*LLG
100	98 x 13 x 116	RC	2	4704928*LLG
300	98 x 13 x 116	RC	2	4704930*LLG

Serial run, 2-1000 kDa MWCO

For the serial run of both cassettes with 500 to 1000 ml volume.

Scope of supply:

- 2 x cassettes,
- 1 x feed tubing,
- 1 x serial connector,
- 2 x permeate tubing,
- 1 x pressure indicator,
- 1 x retentate tubing with restrictor

MWCO kDa	Dimensions (W x D x H) mm	Material Membrane	PK	Cat. No.
5	98 x 13 x 116	PES	2	4704905*LLG
10	98 x 13 x 116	PES	2	4704907*LLG
30	98 x 13 x 116	PES	2	4704909*LLG
50	98 x 13 x 116	PES	2	4704911*LLG
100	98 x 13 x 116	PES	2	4704913*LLG
300	98 x 13 x 116	PES	2	4704915*LLG
1000	98 x 13 x 116	PES	2	4704917*LLG
2	98 x 13 x 116	RC	2	4704921*LLG
5	98 x 13 x 116	RC	2	4704923*LLG
10	98 x 13 x 116	RC	2	4704925*LLG
30	98 x 13 x 116	RC	2	4704927*LLG
100	98 x 13 x 116	RC	2	4704929*LLG
300	98 x 13 x 116	RC	2	4704931*LLG



LLG-Erlenmeyer flasks with standard ground joint, borosilicate glass 3.3



Ideal for mixing liquids. With standard ground joint and white graduation. Acc. to ISO 4797.

Capacity	Ground size	Height	PK	Cat. No.
ml	NS	mm		
50	14/23	85	2	4686106*LLG
50	19/26	85	2	4686107*LLG
50	29/32	85	2	4686108*LLG
100	14/23	100	2	4686109*LLG
100	19/26	100	2	4686110*LLG
100	29/32	100	2	4686111*LLG
250	19/26	140	2	4686112*LLG
250	24/29	140	2	4686113*LLG
250	29/32	140	2	4686114*LLG
300	29/32	156	2	4686115*LLG
500	29/32	175	2	4686116*LLG
1000	29/32	220	1	4686117*LLG
2000	29/32	270	1	4686118*LLG

LLG-Erlenmeyer flasks, with a screw cap, borosilicate glass 3.3



Erlenmeyer flasks made of borosilicate glass 3.3, screw cap with PTFE liner.

- White graduation and labelling field
- GL thread

Capacity	Thread	PK	Cat. No.
ml	GL		
100	32	2	4686198*LLG
250	32	2	4686199*LLG
500	32	2	4686200*LLG
1000	32	1	4686201*LLG

LLG-Crystallising dishes without and with spout, borosilicate glass



New



The crystallising dishes have a flat base, are made of borosilicate glass, and are characterised by high temperature and chemical resistance. Complies with DIN 12337 and DIN 12338 (with spout). Autoclavable.

Nominal capacity	Dimensions (dia. x H)	PK	Cat. No.
ml	mm		
20	40 x 25*	1	4705694*LLG
40	50 x 30*	1	4705695*LLG
60	60 x 35*	1	4705696*LLG
100	70 x 40*	1	4705697*LLG
150	80 x 45*	1	4705698*LLG
300	100 x 45*	1	4705699*LLG
500	125 x 65*	1	4705700*LLG
900	150 x 75*	1	4705701*LLG
2000	200 x 90*	1	4705702*LLG
3500	230 x 100*	1	4705703*LLG
20	40 x 25	1	4705704*LLG
40	50 x 30	1	4705705*LLG
60	60 x 35	1	4705706*LLG
100	70 x 40	1	4705707*LLG
150	80 x 45	1	4705708*LLG
300	100 x 45	1	4705709*LLG
500	125 x 65	1	4705710*LLG
900	150 x 75	1	4705711*LLG
2000	200 x 90	1	4705712*LLG
3500	230 x 100	1	4705713*LLG

* without spout

LLG-Separating funnel, conical, borosilicate glass 3.3



Separating funnel with PTFE stopcock.

- DIN ISO 4800
- With standard ground joint and stopper

Nominal capacity	Bore	Ground size	PK	Cat. No.
ml	mm	NS		
50	2.5	19/26	1	4686257*LLG
100	2.5	19/26	1	4686258*LLG
250	4.0	29/32	1	4686259*LLG
500	4.0	29/32	1	4686260*LLG
1000	6.0	29/32	1	4686261*LLG
2000	6.0	29/32	1	4686262*LLG



LLG-Beakers, borosilicate glass



New



Low form

LLG-Beakers are made of borosilicate glass and are characterised by high temperature and chemical resistance. The beakers are graduated and the spout facilitates pouring. Complies with ISO 3819. Autoclavable.

Nominal capacity ml	PK	Cat. No.
5	10	4705680*LLG
10	10	4705681*LLG
25	10	4705682*LLG
50	10	4705683*LLG
100	10	4705684*LLG
150	10	4705685*LLG
250	10	4705686*LLG
400	8	4705687*LLG

Tall form

LLG-Beakers are made of borosilicate glass and are characterised by high temperature and chemical resistance. The beakers are graduated and the spout facilitates pouring. Complies with ISO 3819. Autoclavable.

Nominal capacity ml	PK	Cat. No.
25	10	4705688*LLG
50	10	4705689*LLG
100	10	4705690*LLG
150	10	4705691*LLG
250	10	4705692*LLG
400	8	4705693*LLG

LLG-Volumetric flasks, borosilicate glass 3.3, class A



Conformity certified with batch ID.

- DIN ISO 1042
- With standard ground joint and PE stopper
- Blue ring mark and inscription

Capacity ml	Tolerance ± ml	Ground size NS	PK	Cat. No.
5	0.040	10/19	2	4686232*LLG
10	0.040	10/19	2	4686233*LLG
20	0.040	10/19	2	4686234*LLG
25	0.040	10/19	2	4686235*LLG
25	0.060	12/21	2	4686236*LLG
50	0.060	12/21	2	4686238*LLG
50	0.100	14/23	2	4686237*LLG
100	0.100	12/21	2	4686239*LLG
100	0.100	14/23	2	4686240*LLG
200	0.150	14/23	2	4686241*LLG
250	0.150	14/23	2	4686242*LLG
500	0.250	19/26	2	4686243*LLG
1000	0.400	24/29	1	4686244*LLG
2000	0.600	29/32	1	4686245*LLG

LLG-Volumetric flasks, amber glass, borosilicate glass 3.3, class A



Conformity certified with batch ID.

- DIN ISO 1042
- With standard ground joint and PE stopper
- White ring mark and inscription

Capacity ml	Tolerance ± ml	Ground size NS	PK	Cat. No.
5	0.040	10/19	2	4686246*LLG
10	0.040	10/19	2	4686247*LLG
20	0.040	10/19	2	4686248*LLG
25	0.040	10/19	2	4686249*LLG
50	0.100	14/23	2	4686250*LLG
100	0.100	14/23	2	4686251*LLG
200	0.150	14/23	2	4686252*LLG
250	0.150	14/23	2	4686253*LLG
500	0.250	19/26	2	4686254*LLG
1000	0.400	24/29	1	4686255*LLG
2000	0.600	29/32	1	4686256*LLG

Core drill, stainless steel V4A

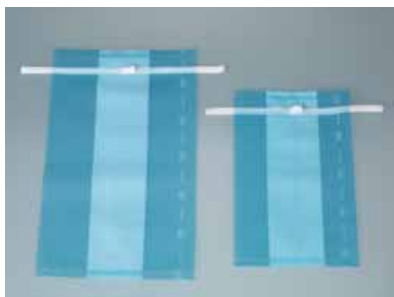


The core sampler can be used to sample bulk materials which, due to their particle shape, are easily jammed or stuck during sampling. Compared to conventional all-layer samplers for bulk solids, the two-part core sampler has no gaps into which the medium can tilt during sampling. This enables professional sampling of a wide variety of powders and granulates through several layers, e.g. glass beads or metal powder. Depending on the size, the stainless steel sampler can be used for a wide variety of containers, such as big bags or small containers. The bulk material sampler takes a representative core sample and is ideal for use in various areas of laboratory and industry.

Scope of delivery: Core drill (consisting of drill rod and drill tube), fixing clip

Nominal capacity ml	External (Ø x L) mm	PK	Cat. No.
15	15 x 200	1	4680865*LLG
110	25 x 400	1	4680866*LLG
230	25 x 800	1	4680867*LLG

Sample bags SteriBag blue, PE, sterile



For use in the food, animal feed and pharmaceutical industries. To prevent the danger of foreign matter in production, the sample bags and the tear-off closure are coloured blue.

- Liquid-tight
- Free of RNases, DNases and pyrogens
- With write-on panel

Nominal capacity ml	Width mm	Length mm	PK	Cat. No.
650	140	229	500	4665341*LLG
1650	178	305	250	4665342*LLG

Disposable tweezers, PS



For precise laboratory work.

- Serrated handles
- Cleanroom manufactured (cleanroom class 7)
- Food-safe

Form	Length mm	Sterile	PK	Cat. No.
Pointed / angled: fine, smooth, curved gripping tip	130	+	100	4670759*LLG
Pointed: straight, inside, serrated tip	130	+	100	4670761*LLG
Wide tip: smooth and blunt tip	130	+	100	4670763*LLG

Sample bags Sani-Stick and Sani-Sponge, with cellulose sponge

LABPLAS



- High quality
- Made in Canada

New



For taking surface samples.

- With writing area
- Rigid handle (Sani-Stick)
- Integrated secure closure system with 2 round wires (Sani-Sponge)
- Quick release system for the sponge
- Integrated secure closure system with 2 round wires
- Sterile
- Contaminant-free
- Waterproof and airtight
- RNase, DNase and pyrogen-free

Nominal capacity ml	Dimensions (W x H) mm	Medium	PK	Cat. No.
1200	152 x 267*	Lethen broth	10	6522307*LLG
1200	152 x 267*	Dey-Engley neutralising broth	10	6522308*LLG
1200	152 x 267*	Buffered peptone water	10	6522309*LLG
1200	152 x 267*	Neutralising buffer	10	4701832*LLG
2100	191 x 292**	Buffered peptone water	100	6522404*LLG
2100	191 x 292**	Lethen broth	100	6522393*LLG
2100	191 x 292**	Neutralising buffer	100	6522405*LLG
2100	191 x 292**	Dey-Engley neutralising broth	100	6522406*LLG

* Sani-Stick, **Sani-Sponge

Ultrasonic baths SONOREX smart ST

BANDELIN



- ECO mode
- Touchscreen
- Numerous functions

These all-round devices with intuitive touchscreen operation offer detailed setting options for every parameter, precise process monitoring and logging and program memory for reliably reproducible results.

- With warning and switch-off function
- With dry-running protection
- Adjustable from 10 to 100%
- Process duration is accurate to the second, with an automatic switch-off
- ECO mode to reduce energy consumption
- Individual programmes can be saved
- Choice of different languages
- Process documentation via DST 01 docking station (optional) with USB and Ethernet

New



Type	Nominal capacity l	Plug type	PK	Cat. No.
smart ST 102 H	3.0	EU	1	4709932*LLG
smart ST 102 H	3.0	CH	1	4710003*LLG
smart ST 102 H	3.0	UK	1	4710004*LLG
smart ST 510 H	9.7	EU	1	4709937*LLG
smart ST 510 H	9.7	CH	1	4710018*LLG
smart ST 510 H	9.7	UK	1	4710019*LLG
smart ST 1028 H	28.0	EU	1	4709940*LLG
smart ST 1028 H	28.0	CH	1	4710027*LLG
smart ST 1028 H	28.0	UK	1	4710028*LLG

Suspension baskets for Sonorex ultrasonic baths



Stainless steel. Optimal ultrasonic wave transmission. Items to be cleaned should not be placed on the bottom of the tank.

Type	For bath type	Dimensions (W x D x H) mm	PK	Cat. No.
K 3 C	ST 102 H	200 x 110 x 40	1	9877633*LLG
K 10	ST 510 H	250 x 195 x 50	1	9877697*LLG
K 28	ST 1028 H	455 x 245 x 50	1	9877698*LLG

Lids for Sonorex ultrasonic baths



Stainless steel. For covering bath tanks, as outlined below.

Type	For bath type	PK	Cat. No.
D 100	ST 102 H	1	9877603*LLG
D 510	ST 510 H	1	9877610*LLG
D 1028	ST 1028 H	1	9877607*LLG

Docking station DST 01 for ultrasonic baths SONOREX smart ST



Simple transfer of the process logs to other storage media. USB-A, USB-B and Ethernet connection.

Type	For	PK	Cat. No.
DST 01	SONOREX smart ST	1	6328138*LLG



Solvent pump hand operated



For contamination-free removal of organic solvents and flavouring agents. Can be completely closed off with two ball valves so that no dangerous vapours can escape after dispensing. Electrostatic charge can be dissipated through the accessory antistatic set (please order separately).

- Medium-contacting parts are made of stainless steel (1.4301) and PTFE
- For containers up to 60 litres
- Suitable for containers with R 2" thread
- The solvent pump for tinplate canisters has a connector thread for pull-out spouts

Description	Immersion depth mm	PK	Cat. No.
Hand pump	600	1	9001349*LLG
Hand pump for tinplate canisters	600	1	6237176*LLG

Solvent pump foot operated



For filling off high-purity liquids such as solvents. Due to the barrel screw joint and the stopcock, the container and the pump can be hermetically sealed. Electrostatic charge can be dissipated through the accessory antistatic set (please order separately).

- Medium-contacting parts made of stainless steel (1.4301) and PTFE
- For barrels up to 220 litres, the immersion tube can be steplessly adjusted to the barrel depth
- Suitable for steel barrels with R 2" thread

Description	Immersion depth mm	Flow rate L / min.	PK	Cat. No.
Foot pump with rigid angled tube	950	30	1	9001134*LLG
Foot pump with flexible tubing	950	30	1	6236800*LLG

Space-saving jerrycans, HDPE, electrically conductive



Black. For use in explosion-protected areas. Electrostatic charge can be dissipated through the accessory antistatic set (please order separately).

- Antistatic
- Surface resistance < 10⁵ Ohm
- With or without threaded connector 3/4"
- Space-saving due to its narrow width
- Electrically conductive stopcock StopCock PA (available as accessory)

Nominal capacity ml	Description	Width mm	PK	Cat. No.
5000	with threaded connector	65	1	4665332*LLG
5000	without threaded connector	65	1	4665330*LLG
10000	with threaded connector	125	1	4665333*LLG
10000	without threaded connector	125	1	4665331*LLG

Tubing clamps stop-it, Metall



Tubing clamps can regulate or stop the flow through of tubings that carry fluids or gases.

To fit tubing mm	PK	Cat. No.
0.5 ... 10	1	9303787*LLG
0.8 ... 15	1	9303788*LLG
1.1 ... 20	1	9303789*LLG
2.5 ... 30	1	9303790*LLG

Anti-static set



When dispensing combustible/explosive liquids pump, both the dispensing and filling drum involved in the process must be sufficiently earthed, to prevent ignition or explosion through electrostatic discharges. The antistatic set includes three colour-coded connecting cables with clamps, supplied complete in a plastic case.

Type	PK	Cat. No.
Antistatic set	1	9001346*LLG

Single channel microliter pipettes, Transferpette® S, variable



Volume ranges from 0.1 µl to 10000 µl.

- Volume-change protection
- Easy Calibration technology: Calibration without tools
- Completely autoclavable at 121 °C
- Colour code on volume adjustment wheel, shaft and volume-change protection
- DE-M marking

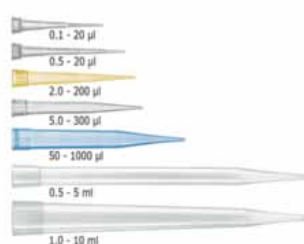
Scope of supply: Transferpette® S type adjustable volume, with performance certificate, shelf/rack mount, labelling foil, silicone grease



Capacity	Accuracy max. vol.	Precision max. vol.	Tip	PK	Cat. No.
µl	(± R%)	(≤ CV%)	µl		
0.1 ... 1	2	1.2	0.1 ... 20	1	9280140*LLG
0.1 ... 2.5	1.4	0.7	0.5 ... 20	1	9280141*LLG
0.5 ... 10	1.0	0.5	0.5 ... 20	1	9280142*LLG
2 ... 20	0.8	0.4	2 ... 200	1	9280143*LLG
5 ... 50	0.8	0.3	2 ... 200	1	9280144*LLG
10 ... 100	0.6	0.2	2 ... 200	1	9280145*LLG
20 ... 200	0.6	0.2	2 ... 200	1	9280146*LLG
100 ... 1000	0.6	0.2	50 ... 1000	1	9280147*LLG
500 ... 5000	0.6	0.2	500 ... 5000	1	9280148*LLG
1000 ... 10000	0.6	0.2	1000 ... 10000	1	9280149*LLG

Pipette tips, bulk, in reclosable bags, non-sterile

All tips and filter tips are produced under supervised state-of-the-art Cleanroom conditions and automatically shrink-wrapped in reclosable bags and packaged in cardboard boxes. The batch number is printed on every bag.



Colour	Capacity	Package contents	PK	Cat. No.
	µl			
natural	0.1 - 20	2 bags of 1000	2000	9409669*LLG
natural	0.5 - 20	2 bags of 1000	2000	9409670*LLG
yellow	2 - 200	1 bag of 1000	1000	9409672*LLG
natural	5 - 300	1 bag of 1000	1000	9409673*LLG
blue	50 - 1000	2 bags of 500	1000	9409674*LLG
natural	500 - 5000	1 bag 200	200	9409223*LLG
natural	1000 - 10000	2 bags of 100	200	9409191*LLG

Pipettors, variable, repeating, Stepper™ 416



Highly comfortable pipette, intended for reliable repeat dispensing from 10 to 5000 µl. Unique trigger action mechanism eliminates thumb fatigue. Wide selection between 53 different volumes; up to 73 doses per filling. Two-year warranty.

- Setting knobs bear a clear indication of volumes and number of aliquots
- Three positive displacement syringes, colour-coded
- Self-locking mechanism



Description	PK	Cat. No.
Stepper™ 416 supplied with colour-coded adjustment knobs, adapter, samples of EcoStep syringes	1	4678370*LLG

Syringe tips, EcoStep for Stepper™ 416



The disposable PE/PP syringes can be quickly and easily inserted into the Stepper™ 416. Three sizes of syringes cover the entire volume range from 10 to 5000 µl.

Bioproof: Sterilized syringes are DNase-, RNase- and pyrogen-free certified.

Type	Capacity	Capacity	PK	Cat. No.
	µl			
Non-sterile	10 - 100	0.75	100	9411509*LLG
Non-sterile	50 - 500	3.75	100	9411511*LLG
Non-sterile	500 - 5000	37.5	100	9411513*LLG
Sterile	10 - 100	0.75	50	9411578*LLG
Sterile	50 - 500	3.75	50	9411579*LLG
Sterile	500 - 5000	37.5	50	9411580*LLG

Ultra-low temperature upright freezers ULT series, up to -86 °C

Compact ultra-low temperature freezer for temporary to long-term cold storage of biological samples.

- Temperature logger with USB port
- Battery backup for 48 h
- Digital controller with display
- High/low-temperature alarm
- Audible and visual alarm
- Contact for remote alarm
- Porthole for external probe and CO₂ backup
- Eco-friendly, HCFC-free Nature R refrigerant

Type designation -PLUS: With extended exchange warranty. In warranty cases which cannot be solved quickly on-site, the client receives a new device.

Specifications

Temperature range: -86 ... -60 °C
 Temperature probes: 1 x PT 1000
 Power supply: 230 V, 50 Hz



- Reliable and powerful
- Digital controller
- Audible and visual alarm



Type	Capacity	External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	Weight	PK	Cat. No.
	Litres			kg		
ULT U35	37	630 x 675 x 650	439 x 271 x 433	59	1	6322824*LLG
ULT U35-PLUS	37	630 x 675 x 650	439 x 271 x 433	59	1	6490712*LLG
ULT U100	93	595 x 630 x 825	430 x 425 x 625	60	1	4672408*LLG
ULT U100-PLUS	93	595 x 630 x 825	430 x 425 x 625	60	1	4672428*LLG

Ultra-low temperature chest freezers ULT series, up to -86 °C

Ultra-low temperature freezer for temporary to long-term cold storage of biological samples. Ideal for daily use in laboratories and scientific facilities.

- Digital controller with display
- Audible and visual alarm
- High/low-temperature alarm
- Contact for remote alarm
- Battery backup for 48 h
- Porthole (Ø12 mm) for external probe and CO₂ backup
- Integrated lock
- With 4 castors
- Eco-friendly, HCFC-free Nature R refrigerant

Specifications

Internal humidity: -86 ... -60 °C
 Temperature probes: 1 x PT 1000
 Power supply: 230 V, 50 Hz



Type	Capacity	External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	Weight	PK	Cat. No.
	Litres			kg		
ULT C75	71	555 x 630 x 630	387 x 387 x 465	45	1	4672404*LLG

Digital water baths



- Including lid
- Color TFT display

- Color TFT display with control panel
- Calibration offset feature
- 5 user programmable pre-sets (temperature and duration)
- 5 languages (English, German, French, Spanish and Chinese)
- Integrated independent timer
- Rear-mounted drain (10, 20 and 28 litres)

Scope of supply: Digital water bath, incl. lid

Specifications

Temperature range:	Ambient +5 °C ... 100 °C
Temperature uniformity:	±0.2 °C
Temperature stability:	±0.1 °C
Power supply:	240 V, 50 Hz

Type	Capacity of the bath litres	PK	Cat. No.
WBE02A12E	2	1	6274985*LLG
WBE05A12E	5	1	6274986*LLG
WBE10A12E	10	1	6274987*LLG
WBE20A12E	20	1	6274988*LLG
WBE28A12E	28	1	6274989*LLG

Heating bath circulator ECO ET Gold, with polycarbonate bath tank

LAUDA



Thermostatic bath circulator with the latest microprocessor technology. With flow rate switch on the control head for individual setting of the internal and external circulation, even during operation.

- User-friendly menu navigation in plain language
- Safety class III for operation with flammable and non-flammable liquids
- Pump with 6 adjustable performance levels
- Cooling coil as standard
- USB interface as standard
- Coloured TFT display for simultaneous indication of actual and set values and graphic illustration of the temperature profile
- Stainless steel pump connectors (M16x1 thread)

Type	Capacity litres	PK	Cat. No.
ET 6 G	5.0 ... 6.0	1	6319701*LLG
ET 12 G	9.5 ... 12.0	1	6242985*LLG
ET 15 G	13.5 ... 15.0	1	6259775*LLG
ET 20 G	15.0 ... 20.0	1	6522851*LLG

Refrigerated circulators CORIO™ CD series



- Choose your color!
- Environmentally friendly
- Natural refrigerant

Refrigerated circulators are suitable for internal and external standard temperature applications as well as routine work in laboratories and industry.

- Bright, white, easy-to-read display
- Easy pump switching between internal and external circulation
- External pump connections (M16x1)
- USB connection
- Space-saving cooling coil design yields more usable space in the bath tank
- Stainless steel bath tank including bath lid and drain tap
- Removable ventilation grid
- Refrigeration unit without lateral ventilation openings
- 2 hose olives each suitable for hose inner diameter 8 and 12 mm included
- Class III (FL) acc. to DIN 12876-1

JULABO



Type	Capacity litres	PK	Cat. No.
CD-310F	3 ... 4	1	4685626*LLG
CD-450F	3 ... 4	1	4685628*LLG
CD-800F	5 ... 7.5	1	4692234*LLG
CD-1200F	5 ... 7.5	1	4692235*LLG
CD-310F, green foiled	3 ... 4	1	4710157*LLG
CD-450F, green foiled	3 ... 4	1	4710158*LLG
CD-800F, green foiled	5 ... 7.5	1	4710159*LLG
CD-1200F, green foiled	5 ... 7.5	1	4710160*LLG

LLG-Disposable Protective Suits, PP



White PP non-woven 30 g/m², with hood and zipper, elastic band on the hood and the wrists and ankles, latex-free

Size	PK	Cat. No.
L	10	6282791*LLG
XL	10	6282792*LLG
XXL	10	6282793*LLG

Skin Protection Cream LINDESA® K PROFESSIONAL with Beeswax and Chamomile



Quickly absorbed. The cream strengthens the defensive functions of the skin, preventing skin damage from external pollution and soothes irritation. Smooths and cleans without leaving a residue.

Capacity	PK	Cat. No.
ml		
100	10	6317296*LLG

Clip hood



- Non-woven fabric
- Soft quality with a double-sheathed cotton elastic band
- Gathered
- Food-safe
- Packaging 10 x 100 pieces

Colour	Size	Diam.	PK	Cat. No.
		mm		
white	medium	520	1000	4665805*LLG
blue	medium	520	1000	6286653*LLG
white	big	550	1000	7500013*LLG

Disposable Gloves Format, Nitrile

EN ISO 374-1 EN ISO 374-5 EN 420

Type C



K



VIRUS



Non-sterile, powder-free, hypoallergenic, with beaded cuff and microroughened surface.

EN 455 T 1-3, CE. Type examination test acc. EN 374.

Cat. III Low Chemical resistance.

Supplied in dispenser box containing 100 gloves.

According to EN ISO 374-1:2016/Type C, EN ISO 374-5:2016, EN 420

Size	PK	Cat. No.
XS (5 to 6)	100	9005344*LLG
S (6 to 7)	100	9005345*LLG
M (7 to 8)	100	9005346*LLG
L (8 to 9)	100	9005347*LLG
XL (9 to 10)	100	9005348*LLG

pH meter SevenDirect™ SD20



SD20 Stirrer-Kit

The pH meter SD20 is a robust benchtop device for measuring the pH value.

- Large 7" touch screen with intuitive user interface
- Electrode arm EasyPlace™ places the sensor precisely
- Intelligent Sensor Management (ISM®) ensures the correct use of the connected sensor
- Calibration with up to 5 calibration points
- GLP compliant

Scope of supply: pH meter, electrode arm EasyPlace™, protective cover, power supply, get-started-guide

SD20 kit: pH electrode InLab® Expert Pro-ISM with robust PEEK shaft and integrated temperature sensor.

Scope of delivery: like pH meter SevenDirect™ SD20 + pH electrode InLab® Expert Pro-ISM, buffer pH 4.01, 7.00 and 9.21 or 10.01

SD20 Stirrer kit: EasyMix's magnetic stirrer - homogenises the sample and thus ensures reliable measurement results

Scope of delivery: like pH meter SevenDirect™ SD20-Kit + magnetic stirrer EasyMix™

Specifications

pH range:	-2.000 ... 20.000
Accuracy:	±0.002
mV range:	-2000.0 ... 2000.0 mV
Temperature range:	-30 ... 130 °C
IP code:	IP54

Type	PK	Cat. No.
SD20	1	4684932*LLG
SD20-Kit	1	4684936*LLG
SD20 Stirrer-Kit	1	4684937*LLG

LLG-Universal Indicator strips "Premium", in a vial with snap lid



The LLG pH indicator strips offer convenient handling for every laboratory. The snap-on lid attached to the can can be easily opened and closed with one hand.

Range	Package contents	PK	Cat. No.
pH 0 ... 14	100 strips per vial with snap lid	100	9129808*LLG

Multiparameter meters MultiLine® 3510 IDS



Professional digital multiparameter meters for mobile measurement. Sequential multi-parameter measurement. All WTW IDS pH, ORP, dissolved oxygen sensors, conductivity cells and turbidity sensors can be connected to the universal channel with a cable or a wireless module. Data transfer to PC with MultiLab® Importer. It has a Mini USB-B interface and a black/white display.

Multi 3510 IDS: Single meter in a carrying case with buffer 4, 7, KCl 3 mol/l, conductivity standard, batteries, USB cable

Multi 3510 SET 1: Meter in a carrying case with pH electrode SenTix® 940, buffer 4, 7, KCl 3 mol/l, conductivity standard, batteries, USB cable

Multi 3510 SET 3: Meter in a carrying case with conductivity sensor TetraCon® 925, conductivity standard, batteries, USB cable

Multi 3510 IDS SET 4: Meter in a carrying case with optical oxygen sensor FDO® 925, batteries, USB cable



Specifications

Memory:	manual: 500 data records automatic: 4500 data records
Dimensions (W x D x H):	approx. 180 x 80 x 55 mm
Weight:	400 g
Power supply:	4 alkaline batteries, USB
IP code:	IP 67

Type	Description	PK	Cat. No.
Multi 3510	1 channel, meter only	1	6282979*LLG
Multi 3510 SET 1	1 channel, SenTix® 940	1	6282978*LLG
Multi 3510 SET 3	1 channel, TetraCon® 925	1	6283710*LLG
Multi 3510 SET 4	1 channel, with FDO® 925	1	6270393*LLG

pH tester Pocket Tester SD10 pH



Pocket Tester with waterproof housing for measuring pH, mV, and temperature.

- Up to 3 calibration points
- With stability indicator, alarm for limits, auto-hold, and auto-off function
- Battery operation (4 x AAA batteries)

Specifications

pH measuring range:	0.00 ... 14.00
Resolution:	0.01
Accuracy:	±0.01 (±1 digit)
mV measuring range:	-1000 ... 1000 mV
Resolution:	1 mV
Accuracy:	±0.2% FS
Protection class:	IP 67

Type	PK	Cat. No.
SD10 pH	1	4694724*LLG

Safety Storage Cabinets V-Move 90

Safe and proper storage



The space-saving vertical drawer Safety storage cabinets provide an overview and simple access to the stored containers. Safe and approved storage of flammable hazardous substances in working areas.

- Space-saving vertical drawer
- Electronic opening and closing
- Standard serial closing after approx. 60 seconds with visual and acoustic signals for drawer closure
- Lockable with cylinder lock (integration in an existing locking system possible) and locking state indicator (red/green)
- Adjusting aids to compensate for uneven floor
- Integrated air ducts ready for connection (DN 75) to an exhaust system

Scope of supply: Cabinet with 5 x shelves (1-l bottles), 1 x perforated insert, 1 x bottom collecting sump

Specifications
Outer dimensions (W x D x H): 450 x 863 x 1966 mm
Internal dimensions (W x D x H): 331 x 773 x 1750 mm
Net weight (corpus): 344 kg

Type	Colour	PK	Cat. No.
V90.196.045	Light grey	1	4662147*LLG

Laboratory/Medical saddle stool

High seating comfort
Made in the EU



Laboratory/Medical saddle stool with castors

- Intuitive 3D seat dynamics
- 3-zone upholstery foam
- Seamless and crease-free upholstery (Imitation leather)
- Polished aluminium base

Type	Seat height adjustment	PK	Cat. No.
Saddle stool	mm 540 - 800	1	6521481*LLG

Disposal Container SHARPSAFE®



Nominal capacity l	Dimensions (W x D x H) mm	Print Languages	PK	Cat. No.
4	175 x 175 x 245	DE/UK/FR/IT/ES	1	4688125*LLG
7	175 x 175 x 380	DE/UK/FR/IT/ES	1	4688126*LLG
9	175 x 175 x 498	FR/NL	1	4688127*LLG
9	195 x 292 x 291	FR/NL	1	4688129*LLG
13	195 x 292 x 353	FR/NL	1	4688128*LLG
24	230 x 450 x 335	UK	1	4688130*LLG

Waste disposal cans



Duran® glass.
Efficient, secure intermediate storage of aggressive laboratory objects. Can be used almost anywhere. Resistant to most acids and alkalis. Very stable. Orange lacquer coating and hazard signs.

Capacity	PK	Cat. No.
Litres		
4	1	9032848*LLG
8	1	9032850*LLG
15	1	9032852*LLG

Bunsen burners with needle valve



DIN 30665. Air regulation.

Type	Height	Weight	PK	Cat. No.
	mm	g		
Natural gas	155	220	1	9018361*LLG
Propane gas	155	220	1	9018362*LLG

Triangle



Zinc-plated steel wire with pipeclay tubes.

Pipeclay tube Length	Weight	PK	Cat. No.
mm	g		
40	16	1	9033740*LLG
50	33	1	9033741*LLG
100	58	1	6085914*LLG

Tripod stand



Chrome-plated steel. Tripods are meant to be used in conjunction with wire gauze, triangles or a sand bath.

Diam.	Description	PK	Cat. No.
mm			
125	Total height 200 mm	1	6242704*LLG

Safety Bunsen Burner, schuett phoenix II



Ideal for safety cabinets

*schuett***biotec**.de



For sterilising, heating, flame sterilising. For use in every microbiological laboratory or safety cabinets.

- Controlled burning time 1 sec to 120 min (selectable)
- Automatic safety shut-off (selectable)
- Overheating protection/burner control by sensors

Suitable for use with natural gas (central gas) or butane/propane gas (gas cartridges). Integrated stands for tilting right or left. Safety standard acc. to DIN 30665 part 1, DIN-DVGW

Schuett Phoenix II eco: (with LED control lamp and foot-switch) Start flame by foot-switch or button (On/Off). Best suited for use in microbiological safety cabinets. Best price-to-performance ratio.

Schuett Phoenix II standard: (brilliant colour display, selection of native language, sensor and foot-switch) Start/Stop flame by activating sensor 1x or 2x, use foot switch or press button by hand. Continuous display of timer.

Schuett Phoenix II accu: (brilliant colour display, selection of native language, sensor and built-in extra heavy duty power cells) Start/stop flame by activating sensor 1x or 2x, use foot-switch or press button by hand. Continuous display of timer and battery power. Operates for up to 30 hours, intermittent use. Complete with battery charger for 3-hour recharging. Ideal for mobile usage.

Power supply: 100 - 240 V, 50/60 Hz

Type	PK	Cat. No.
schuett phoenix II eco*	1	9018760*LLG
schuett phoenix II standard*	1	9018761*LLG
schuett phoenix II accu	1	9018762*LLG

*incl. foot switch, stainless steel

Real-time horizontal gel electrophoresis system runVIEW



Complete sets



- Versatile, self-contained system on the market for real-time horizontal gel electrophoresis
- Includes accessories for standard gel electrophoresis for size fractionation and simplified real-time gel-free DNA band extraction and purification
- Included Double-sided Combs: 2x 1-sample/2-sample preparatory; 2x 4-sample preparatory/16-sample combs; 4x 20- /28-sample multichannel compatible screening. Comb Thickness: 1mm. Extra-thick 2x 4- and 2x 6-sample 3mm preparatory combs are also included.

Specifications

runVIEW Viewing Dock

Blue Light Wavelength:	470 nm
Voltage/Resolution:	25-150 V/1 V
Current/Resolution:	300 mA/1 mA
Power:	30 W
Timer:	1 to 999 min (with alarm)
Dimensions (W x D x H):	29.3 x 22.0 x 8.0 cm
Power supply:	100-240 V, 50/60 Hz

runVIEW Gel System

Gel Dimensions (W X L):	15 x 7, 15 x 10 and 15 x 15 cm
Unit dimensions (W X D X H):	26.5 x 17.5 x 9.0 cm
Buffer volume:	500 ml

Description	PK	Cat. No.
runVIEW system complete with 15 x 7 cm gel tray, 1 set of casting dams and 8 double-sided combs	1	9584764*LLG
runVIEW system complete with 15 x 10 cm gel tray, 1 set of casting dams and 8 double-sided combs	1	9584765*LLG
runVIEW system complete with 15 x 15 cm gel tray, 1 set of casting dams and 8 double-sided combs	1	7920135*LLG
runVIEW system complete with 15 x 7, 15 x 10 and 15 x 15 cm gel trays, 3 sets of casting dams and 8 double-sided combs	1	9584766*LLG
runVIEW base station and bluVIEW lid	1	9584767*LLG
runVIEW gel documentation hood with camera	1	9584768*LLG
runVIEW base station and blueVIEW lid for MSMINI system	1	6286851*LLG
runVIEW base station and blueVIEW lid for MSMIDI system	1	6286852*LLG

Semi-Dry Blotters

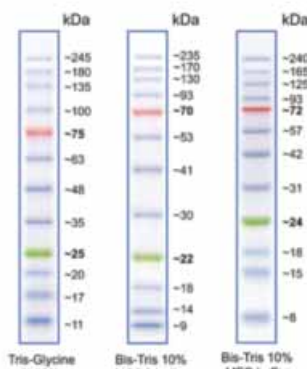


SD10

The devices enable transfer times of just 15 to 30 minutes for DNA, RNA and protein blotting. Suitable for all common blotting methods (Western, Southern, Northern) and gel thicknesses from 0.25 to 10 mm. Cost-effective transfers due to low buffer volume.

Type	Description	PK	Cat. No.
SD10	Mini, 10 x 10 cm	1	9584753*LLG
SD20	Maxi, 20 x 20 cm	1	6229381*LLG

BLUE Wide Range, Protein Ladders, Prestained



The marker is covalently bound to a blue colour chromophore to produce a ladder of evenly interspersed bands of uniform intensity.

- Easy identification in gels and blots
- Detectable from 2.5 µl
- 2 years stable at - 20 °C
- Vials of 500 µl

Size	Bands	Reference bands	PK	Cat. No.
10 - 245 kDa	12	25, 75 kDa	1	4661311*LLG

Square Media Bottles, PET, sterile



For safe storage and transportation of cell culture media. The bottles are manufactured at aseptically sterile production halls and then sent to gamma sterilisation.

- Thick walls and crush-resistant corners
- Square shape
- Embossed volume graduations

Nominal capacity ml	Dimensions (W x D x H) mm	PK	Cat. No.
125	53 x 53 x 105	40	9073276*LLG
250	59 x 59 x 147	45	9073277*LLG
500	77 x 77 x 174	21	9073278*LLG
1000	93 x 93 x 214	15	9073279*LLG

Nalgene Freezing container Mr. Frosty, PC

thermo
scientific



With a 120 mm diameter screw cap in blue HDPE, a vial holder made of white HDPE. Foam interior. Cooling rate 1 °C/min. Tubes can be easily removed. Each aperture has a moulded number for identification. Stackable.

For tubes ml	Diam. mm	Height mm	No. of tubes	PK	Cat. No.
1.0 ... 2.0	117	86	18	1	9400945*LLG
3.6	117	151	12	1	9400990*LLG
4.5 ... 5.0	117	151	12	1	9400991*LLG

LLG-Cryotubes, PP, sterile



With and without a stand-up ring. With a star shape in the screw cap, for an automated capper/decapper. Temperature resistance down to -196 °C. **Not appropriate for operations in liquid nitrogen.** Packed in 2 bags of 50 tubes.

Capacity ml	Ext. diam. mm	Height mm	Thread	PK	Cat. No.
1.2	12.6	40.2	External	100	9401160*LLG
1.2	12.6	40.2	Internal	100	9401161*LLG
2.0	12.6	45.6	External	100	9401162*LLG
2.0	12.6	48.2	Internal	100	9401163*LLG
2.0	12.6	44.5	External*	100	9401164*LLG
2.0	12.6	47.0	Internal*	100	9401165*LLG
5.0	12.6	87.6	External	100	9401166*LLG
5.0	12.6	89.2	Internal*	100	9401167*LLG
5.0	12.6	90.3	Internal	100	9401168*LLG

* without stand ring

LLG-Pipette controller easy



Ergonomic and precise



The LLG-Pipette controller easily enables fast and exact pipetting with glass and plastic pipettes.

- Ergonomic and lightweight construction for constant ease of use over prolonged usage
- Unique nose cone angle for enhanced flexibility in operation e.g. in fume hoods
- Eco-friendly rechargeable NiMH batteries, offering up to 8 hours of continuous working
- Autoclavable tip cone for avoiding cross-contamination

Scope of supply: Pipette controller, manual, charger, wall-mount, desktop stand

Description	Plug type	PK	Cat. No.
LLG-Pipette controller easy	EU	1	6263683*LLG
LLG-Pipette controller easy	UK	1	6263684*LLG

LLG-Serological pipettes, PS, sterile



Serological pipettes from LLG are ideally suited for sterile serological and cell culture applications.

- Also available as short pipettes (5 ml, 10 ml and 25 ml) or wide-mouth pipettes (10 ml)
- 1 ml, 5 ml, 10 ml, 25 ml and 50 ml pipettes contain a bi-directional secondary graduation scale for precise dosing
- Colour-coded ring mark for easy volume identification
- Single-packed in easy-to-open plastic/paper packaging

Volume ml	Grad. ml	Colour code	Negative graduations	PK	Cat. No.
1	1/100	yellow	0.3	500	9380440*LLG
2	1/50	green	0.6	500	9380441*LLG
5	1/10	blue	3	200	7930401*LLG
10	1/10	orange	3	200	6268240*LLG
10	1/10	orange*	3	200	9380442*LLG
25	2/10	red	8	150	7930403*LLG
50	5/10	purple	10	100	9380443*LLG
5	1/10	blue**	3	200	6265881*LLG
10	2/10	orange**	10	150	6265882*LLG
25	5/10	red**	9	100	6265883*LLG

* wide mouth, **short form

High-performance Greenough Stereo Microscope with LED, SMZ-171 Serie

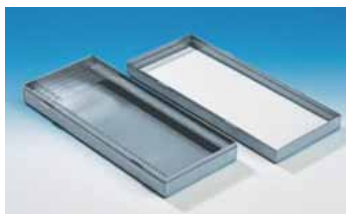
Versatile Stereo microscope for a wide range of biological and material science applications.

- Observation Tube Binocular - /Phototube 45°, 360° rotating, F.N. 23
- Widefield adjustable eyepieces WF10X/23 mm, incl. eyecups
- 6.7:1 Zoom ratio, WD=110 mm
- Objective magnification range: 0.75X-5X
- Main supply 100 V-240 V (CE)
- Black/White and frosted glass stage plates, and dust cover



Type	Description	PK	Cat. No.
SMZ-171-BLED	Binocular	1	6264087*LLG
SMZ-171-TLED	Trinocular	1	7671016*LLG

Microscope slide boxes, PS



High impact. For 76 x 26 mm slides. Numbered slots in a base. Index card in a lid.

To hold microscope slides	Dimensions (W x D x H) mm	PK	Cat. No.
25	83 x 98 x 38	1	9161380*LLG
50	97 x 230 x 35	1	9161381*LLG
100	180 x 230 x 35	1	9161382*LLG

Slide Mailer, PP



For storing or shipping 5 thick or 10 thin slides.

Int. diam. mm	Height mm	PK	Cat. No.
40	90	1	9161395*LLG

Light Microscopes Educational-Line OBE 12/13

KERN



The fully equipped all-round compound microscope for school, training and laboratories.

- Monocular (OBE 121, 131): Tube 30° inclined
- Binocular (OBE 122, OBE 132): Tube Butterfly 30° inclined, 360° rotatable
- Trinocular (OBE 124, 134): Tube Butterfly 30° inclined, 360° rotatable
- Widefield Eyepiece: WF 10x/18 mm
- Diopter adjustment at bino- and trinocular Version available (at one eyepiece tube)
- Quadruple nosepiece
- Coaxial pre-and fine focusing
- ABBE 1.25 condenser focussed with aperture diaphragm
- Dimmable 3 W LED illumination
- Storage compartment on the rear side
- USB connection (only as power source)
- Dust Cover, eyepiece rubber caps and manual instruction included
- Achromatic objective

Total dimension (W x D x H): 360 x 150 x 320 mm
Weight: 4.6 kg
Power supply: 230 V/50 Hz, external power bank via USB

Type	Description	PK	Cat. No.
OBE 121	Monocular, 4x, 10x, 40x	1	4670979*LLG
OBE 122	Binocular, 4x, 10x, 40x	1	4670980*LLG
OBE 124	Trinocular, 4x, 10x, 40x	1	4670981*LLG
OBE 131	Monocular, 4x, 10x, 40x, 100x (oil immersion)	1	4670982*LLG
OBE 132	Binocular, 4x, 10x, 40x, 100x (oil immersion)	1	4670983*LLG
OBE 134	Trinocular, 4x, 10x, 40x, 100x (oil immersion)	1	4670984*LLG

Staining jar, PMP (TPX®), Hellendahl pattern



Accepts 16 slides 76 x 26 mm (8 pairs back to back). Transparent, with grooves. Complete with a lid.

Dimensions (W x D x H) mm	PK	Cat. No.
58 x 53.5 x 86	1	9161350*LLG

LLG-Cuvette rack, PP



Ideal for storing up to 16 cuvettes with a 12.5 mm width. The two-tier arrangement of the cuvette rows ensures clarity.

- Numbered positions
- Autoclavable at 121 °C

Length	Width	Height	PK	Cat. No.
mm	mm	mm		
210	70	35	1	4682061*LLG

LLG-Disposable plastic cells, PS

The shape and narrow wall thickness of the cuvettes enable an excellent heat transfer resulting in constant sample temperatures during photometric measurements.



- Cavity sorted
- Glass clear polystyrene (PS)
- Applicable wavelength range 340 nm to 900 nm
- Path length 10 mm
- Overall dimensions 12.5 mm x 12.5 mm x 45 mm
- Styrofoam racks: 100 cuvettes in a styrofoam box with cover



Description	Capacity	Operating range	PK	Cat. No.
	ml	nm		
Macro	4.0	340 to 900	100	9406011*LLG
Semi-micro	1.6	340 to 900	100	9406012*LLG

Cells W600



Cells made of optical glass or Borosilicate glass 3.3, 21 mm x 40 mm, for instrument Models Fs, PFXi/PFX195, 880, 950 and 995. (Note: PFXi/PFX-195 max. path length 50 mm).

W600/OG/xx for unheated samples (up to 40 °C)
W600/B/xx for heated samples (up to max. 100 °C)

Further versions are available on request.

Type	Path length	Material	PK	Cat. No.
	mm			
W600/OG/10	10	optical glass	1	6207120*LLG
W600/OG/33	33	optical glass	1	6093322*LLG
W600/OG/50	50	optical glass	1	6207119*LLG
W600/OG/100	100	optical glass	1	6235055*LLG
W600/OG/5¼"	133.35	optical glass	1	9947343*LLG
W600/B/10	10	Borosilicate glass 3.3	1	6241927*LLG
W600/B/33	33	Borosilicate glass 3.3	1	6086921*LLG
W600/B/5¼"	133.35	Borosilicate glass 3.3	1	9947345*LLG

Reflectance Spectrophotometer
TRA 500/TRA 520

- 3,5" TFT Colour Display
- For reflectance measurements
- Flexible usage



TRA 500

Ergonomic and flexible reflection spectrophotometers with customer-specific apertures for the TR 500 and dual apertures for the TR 520 for measuring samples in different industries including food, medicine, coatings and plastics.

- CMOS sensor (256 picture elements, double array)
- Intuitive 3.5 inch TFT colour LCD (capacitive), symbol-based
- External memory with 2000 standards and 20000 samples
- Measurements are easy to read through the angled viewing window
- Integrated cover prevents the effects of extraneous light
- Dual apertures
- Measurement of fluorescent materials with UV on/off
- Extended range of illuminants
- Operation languages: English, French, German, Spanish, Portuguese, Chinese

Scope of supply: Spectrophotometer, complete accessories, sample cover, white background plate, 3 x optical glass cells (10, 20, 30 mm)

Specifications

Light source:

Illuminant:

Repeatability:

Inter instrument agreement:

Dimensions (W x D x H):
Weight:

TRA 500 || TRA 520

combined LED light ||
combined LED light, UV light
D65, A, C, D50, D55, D75, F2, F7, F11 ||
D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12
MAV/SCI: $\Delta E \leq 0.05$ ||
MAV/SCI: $\Delta E \leq 0.03$
MAV/SCI: $\Delta E \leq 0.2$ ||
MAV/SCI: $\Delta E \leq 0.15$
207 x 170 x 130 mm
1200 g

Type	Aperture	PK	Cat. No.
	mm		
TRA 500	8	1	4672168*LLG
TRA 520	10/8 + 5/4	1	4672167*LLG

Standards for Flame photometers



Suitable for calibration, control, IQ/OQ and method validation. Compatible with all Flame Photometry Instruments. Available as single-element analytical standards (in ppm) or Multi-element clinical standards (in mmol/l). NIST traceable. HDPE bottles of 500 ml.

Type	Measuring range	PK	Cat. No.
Barium	1000 ppm	1	FIBA1*REA
Lithium	1000 ppm	1	FIL11*REA
Potassium	1000 ppm	1	FIK1*REA
Sodium	1000 ppm	1	FINA1*REA
Calcium	1000 ppm	1	FICA1*REA
Sodium / Potassium	100 / 100 mmol/L	1	FCNK3*REA
Sodium / Potassium	120 / 2 mmol/L	1	FCNK4*REA
Sodium / Potassium	140 / 5 mmol/L	1	FCNK5*REA
Sodium / Potassium	160 / 8 mmol/L	1	FCNK1*REA
Sodium / Potassium	160 / 80 mmol/L	1	FCNK2*REA
Rinse solution	-	1	FIRINSE5*REA

Turbidity Standards



Highly accurate turbidity standards composed of suspended microspheres, suitable for Instrument calibration and control of all turbidity meters. Stable, shelf life of 2 years (from Date of Manufacturing). NIST traceable, US EPA approved and tested in compliance with ISO 7027. HDPE bottles of 100 ml.

Two ranges available:

- Ratio range for Ratio Turbidity Measuring instruments (a measure of the scattered light from the sample at a 90° angle from the incident light, plus at additional angles (several detectors))
- Non-Ratio for Non-Ratio Turbidity Measuring instruments will measure the scattered light from the sample at a 90° angle from the incident light (one detector)

Description	Volume	PK	Cat. No.
	ml		
Non Ratio 0.0 NTU	100	1	CRS-0.0-100*REA
Non Ratio 0.1 NTU	100	1	CRS-0.1-100*REA
Non Ratio 20 NTU	100	1	CRS-20-100*REA
Non Ratio 200 NTU	100	1	CRS-200-100*REA
Non Ratio 800 NTU	100	1	CRS-800-100*REA
Ratio 0.0 NTU	100	1	CRSR-0-100*REA
Ratio 0.1 NTU	100	1	CRSR-0.1-100*REA
Ratio 15 NTU	100	1	CRSR-15-100*REA
Ratio 100 NTU	100	1	CRSR-100-100*REA

Chemical Oxygen Demand (COD) Standards



These standards are ideal for use as control standards to verify that correct analysis for COD has taken place. Extensive range (10 to 60000 ppm), NIST traceable, 2 years shelf-life. HDPE bottle of 500 ml.

Type	Measuring range mg / l	PK	Cat. No.
COD10	10	1	COD10*REA
COD20	20	1	COD20*REA
COD50	50	1	COD50*REA
COD100	100	1	COD100*REA
COD200	200	1	COD200*REA
COD500	500	1	COD500*REA
COD600	600	1	COD600*REA
COD1000	1000	1	COD1000*REA
COD1300	1300	1	COD1300*REA
COD1500	1500	1	COD1500*REA
COD2000	2000	1	COD2000*REA
COD3000	3000	1	COD3000*REA
COD5000	5000	1	COD5000*REA
COD6000	6000	1	COD6000*REA

Colour Standards Platinum-Cobalt (Hazen)



These colour standards can be used to calibrate, control, qualify or validate colour measurement instruments to determine the colour number. These standards are Platinum-Cobalt, Pt-Co, Hazen or APHA colour. All descriptions are interchangeable.

- Covers requirements of ASTM Method D 1209
- In 1 l HDPE bottle

Description	PK	Cat. No.
Pt-Co Hazen 0	1	HAZ0*REA
Pt-Co Hazen 5	1	HAZ5*REA
Pt-Co Hazen 10	1	HAZ10*REA
Pt-Co Hazen 15	1	HAZ15*REA
Pt-Co Hazen 20	1	HAZ20*REA
Pt-Co Hazen 25	1	HAZ25*REA
Pt-Co Hazen 30	1	HAZ30*REA
Pt-Co Hazen 40	1	HAZ40*REA

Analytical balances Adventurer® AX



- Fast stabilisation and reliable operation. Guarantees long-lasting weighing performance and accurate, repeatable results
- The touchscreen with a wide reading angle allows access to all applications
- Low space requirement due to two-part, top-mounted draft shield doors
- Features: Two-piece, top-mounted, space-saving draft shield with removable panels (0.1 mg and 0.001 g models). AutoCal™ automatic internal calibration or external calibration. Illuminated level control. Selectable environmental and auto pressure settings. Integrated below-balance weighing hook. Fully covering labour protection cover. Software lock switch

Specifications

Readability: 0.1 mg
 Ø weighing plate: 90 mm
 Power supply: 100...240 V/50/60 Hz

Type	Weighing range g	PK	Cat. No.
AX124	120	1	6268193*LLG
AX224	220	1	6268196*LLG
AX324	320	1	6268199*LLG

LLG-Hexagonal weighing boats, PS, antistatic, white



Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range -10 to 70 °C. Can be used with microwave moisture analysers.

Size	Dimensions mm	PK	Cat. No.
Small	38 x 25 x 9	500	9900893*LLG
Medium	64 x 51 x 19	500	9900894*LLG
Large	102 x 76 x 22	500	9900895*LLG
X-Large	127 x 89 x 31	500	9900896*LLG

Precision Balances Adventurer® AX



- Fast stabilization and reliable operation to ensure solid weighing performance and accurate, repeatable results
- The wide viewing angle 4.3" colour touchscreen provides access to all applications
- The 0.01 g models feature large weighing pans
- Communication: RS232, USB Host, USB Device (included). GLP/GMP compliant data output with real-time clock
- Design features: Two-piece, top-mounted, space-saving draft shield with removable panels on 0.1 mg and 0.001 g models. AutoCal™ automatic internal calibration or external calibration. Level assist feature with illuminated level indicator. Selectable environmental and auto-print settings. Integral weigh below hook. Protective full housing in-use cover. Software lock switch

Type	Weighing range g	Readability g	Plate dimensions mm	PK	Cat. No.
AX223	220	0.001	Ø 130	1	6268208*LLG
AX1502	1520	0.01	175 x 195	1	6268218*LLG
AX2202/E	2200	0.01	175 x 195	1	6268222*LLG
AX4202	4200	0.01	175 x 195	1	6268223*LLG

LLG-Weighing dishes, aluminium



Made from oil-free, lightweight aluminium. With a flanged, crimped wall for rigidity. Finger-tab handle can be etched for identification before weighing.

Ø mm	Height mm	Thickness mm	PK	Cat. No.
43	12	0.3	100	6238138*LLG
57	14	0.3	100	6238139*LLG
70	16	0.3	100	6238140*LLG
101 *	8	0.3	50	6236854*LLG

* without Finger-tab handle

Density meter DMA 501



Density meter for samples with difficult properties such as pasty, inhomogeneous, sedimenting, particle-containing, or even aerosol sprays. All relevant concentration tables and formulas for calculating product-specific parameters are installed in the DMA 501.

- Razor-sharp camera image of the measuring cell (U-View™) for viewing the correct sample filling
- Fanless temperature control of the sample
- Complete documentation and traceability of data
- Integrated temperature and humidity sensor for intelligent self-checking
- Integrated pressure sensor for adjustments
- Automatic full-range viscosity correction of the results
- 3-year warranty

Specifications

Density measuring range/Accuracy:	0 ... 3 g/cm ³ /0.001 g/cm ³
Reproducibility standard deviation (acc. to ISO 5725):	0.0004 g/cm ³
Minimal sample volume:	approx. 1 ml
Temperature range/Accuracy:	15 ... 40 °C/0.3 °C
Display:	7 inches, TFT WVGA (800 x 480 Px), PCAP touchscreen
Dimensions (W x D x H):	265 x 375 x 180 mm
Weight:	13.5 kg
Power supply:	100 .. 240 V, 47/63 Hz, 24 V, 3 A

Type	PK	Cat. No.
DMA 501	1	6313796*LLG

Digital Anemometer



For the measurement of wind speed (in m/s, km/h, mph, knots, ft/min), maximum and average wind speed, an indication of temperature (in °C or °F). Useful for the functional check of fume hoods and safety cabinets.

Wind speed range:	0.2 to 30 m/s
Resolution:	0.1 m/s
Accuracy:	±5%
Temperature range:	-10 ... +45 °C (-14 ... + 113 °F)
Power supply:	3V CR2032 (included)

Dimensions (W x D x H)	PK	Cat. No.
mm	1	6264198*LLG
58 x 19 x 104		

Flocculation tester ET 730



Designed for efficiency testing of flocculation or precipitation agents.

- Illuminated back panel for glare-free observation of the samples
- Timer feature and digital display
- Height adjustment of the stirring blades during operation
- For beakers with 1000 to 1500 ml volume, tall and low form

Specifications

Speed control:	20, 40, 50, 100, 200 rpm
Timer:	0 ... 30 minutes (continuous)
Power Supply:	100 ... 240 V, 50/60 Hz

Dimensions (l x w x h)	PK	Cat. No.
mm	1	9699301*LLG
250 x 320 x 250		

Viscometers ViscoQC 100



ViscoQC 100 - L



These viscometers cover the entire viscosity range with three models: L for low viscosity, R for medium viscosity and H for highly viscous samples.

- Magnetic spindle coupling for a quick exchange of spindles
- Automatic spindle recognition Toolmaster™
- Automatic speed search TruMode™ finds the right speed for unknown samples
- Automatic spindle protection detection TruGuard™ for automatic detection of the guard
- 3.5" colour LC display
- Direct print/export

Scope of supply: Viscometer, Toolmaster™, magnetic coupling, 4 spindles (R and H) or 6 spindles (L) out of AISI 316L, tripod, power supply unit, USB-cable, data collection software V-Collect, printed SOP, instructions

Specifications

Temperature range:	15 ... 80 °C
Accuracy:	±1%
Repeatability:	±0.2%
Dimensions (L x W x H):	361 x 281 x 444 mm
Weight:	6.2 kg
Power supply:	100 ... 240 V, 47/63 Hz, 24 V, 3 A

Type	Viscosity range mPas	Max. torque Ncm	PK	Cat. No.
ViscoQC 100 - L	15 ... 6000000	0.00673	1	6313808*LLG
ViscoQC 100 - R	100 ... 40000000	0.07187	1	6313809*LLG
ViscoQC 100 - H	800 ... 320000000	0.57496	1	6313810*LLG

LLG-Centrifuge tubes, PP



Polypropylene tubes with excellent thermal, mechanical and chemical stability. With screw closures. Sterile tubes with screwed-on closure. Packed in boxes or bags. With graduations and labelling area.

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

Description	Capacity	Diam.	PK	Cat. No.
	ml	mm		
aseptic, bulk pack	15	17	50	6263886*LLG
big pack	15	17	500	9316063*LLG
big pack, bulk pack	50	30	50	4008506*LLG

LLG-Microcentrifuge tubes, PP



LLG-Microcentrifuge tubes are ideal for all test throughputs. These centrifuge tubes are very resistant to mechanical strain and highly resistant to temperature fluctuations and chemicals. The tubes have graduation marks for quick and easy volume checks. The ergonomic cap design with a click-lock mechanism ensures a secure seal and makes opening and closing easier. With a frosted labelling area on the housing.

Certified DNase-, RNase-, and pyrogen-free. Guaranteed metal-free. Suitable for microbiology.

Specifications

Autoclavability

Temperature: 121 °C
Pressure: 1.05 bar or 15 psi
Time: 20 min or less

Centrifugation

Fixed angle rotor: 25000 x g
Swing out rotor: 70000 x g

Form	Volume	Max.	PK	Cat. No.
	ml	rcf		
conical	1.5	25000	500	6521309*LLG
round	2.0	25000	500	6521310*LLG

Centrifuges Frontier™ Multi Pro FC5714



Allround Centrifuge



Powerful and versatile Universal Centrifuges for almost every laboratory application. The intuitive design of the centrifuges and accessories enables easy access to the parameter settings and quick change between applications.

Please order rotors separately.

Specifications

Max. RCF: 18.624 x g
Max. Speed: 14.000 rpm
Max. Load: 4 x 100 ml
Power consumption: 240 W
Dimensions (W x D x H): 362 x 493 x 330 mm
Weight: 30 kg
Power supply: 230 V, 50/60 Hz

Type	PK	Cat. No.
FC5714	1	4661524*LLG

Fixed angle rotor for Frontier™ Multi Pro FC5714



Description	PK	Cat. No.
Fixed angle rotor 12 x 15 ml, RB/FA, ID	1	4661550*LLG

ID: Auto rotor identification, RB: Round bottom tubes, FA: Conical bottom tubes



Digital dry bath
LLG-uniBLOCKTHERM



Mini cooling incubator
LLG-uniNCU 20 cool



- Compact and space-saving
- High temperature stability
- With internal socket



Suitable for use in microbiological, histological, clinical, industrial and environmental laboratories. Various types of optional heating blocks are available as accessories for the LLG-uniBLOCKTHERM.

- Digital control with LED display
- For timer and continuous operation
- 1 x block unit
- With overheating protection

Scope of supply: LLG-uniBLOCKTHERM, removal tool, lid

Please order heating blocks separately.

Specifications

Temperature range:	RT ... 120 °C
Temperature uniformity:	±0.5 °C
Temperature accuracy:	±0.5 °C
Timer:	0 ... 99:59:00 min
Block material:	Aluminium
Dimensions (W x D x H):	175 x 290 x 85 mm
Weight:	3 kg
Power supply:	220 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniBLOCKTHERM	EU	1	6263460*LLG
LLG-uniBLOCKTHERM	UK	1	6263461*LLG

Heating blocks for LLG-uniBLOCKTHERM



Dimensions Heating blocks (W x D x H): 95 x 150 x 50 mm

Description	PK	Cat. No.
Heating block 54 x 0.2 ml	1	6263462*LLG
Heating block 40 x 0.5 ml	1	6263463*LLG
Heating block 40 x 1.5 ml	1	6263464*LLG
Heating block 40 x 2.0 ml	1	6263465*LLG
Heating block 28 x 5/15 ml	1	6263466*LLG
Heating block 8 x 50 ml	1	6263467*LLG
Heating block for 96/384 Microplate	1	6263468*LLG
Heating block for each 18 x 0.2, 0.5 and 1.5/2.0 ml	1	6263469*LLG
Heating block with aluminium beads	1	6263557*LLG

Digital mini incubator with cooling and heating function for cultivation of biological samples in small-volume vessels. With an internal power outlet for positioning small shakers, mixers, or other devices in the inner chamber.

- Good temperature stability of the set temperature (up to 15 °C below ambient temperature)
- Large inner chamber with 22 l capacity
- Fast heating and homogeneous temperature
- With built-in calibration function of up to ±5 °C

Specifications

Temperature range:	Ambient - 15 °C ... 60 °C
Temperature accuracy:	±0.5 °C (at 37 °C)
Temperature uniformity:	±1.5 °C (at 37 °C)
External dimensions (WxDxH):	340 x 410 x 480 mm
Internal dimensions (WxDxH):	235 x 260 x 360 mm
Weight:	7.5 kg
Power supply:	100 ... 240 V, 50 ... 60 Hz

Type	Nominal capacity l	Plug type	PK	Cat. No.
LLG-uniNCU 20 cool	22	EU	1	6263572*LLG
LLG-uniNCU 20 cool	22	UK	1	6263573*LLG

LLG-Heat/Cold hand protector
"TempHand", silicone rubber



Gripper made of red silicone rubber. Suitable for temperatures from -50 °C up to 250 °C. Two grip openings for quick and easy use. One size fits all, can be used on both sides. With non-slip grip surface.

Description	PK	Cat. No.
LLG-Heat/Cold hand protector "TempHand"	1	6322889*LLG

Tube roller RM 2



Robust tube roller with gentle tilting and rolling movement. Suitable for all common tube sizes, bottles and other cylindrical vessels with a diameter of up to 80 mm.

- Gentle start-up for optimum development of cell cultures.
- Can be used at CO₂ concentrations up to 5%.
- Drip tray and plastic rollers can be removed for easy cleaning

Scope of delivery: basic unit including 6 removable plastic rollers and drip tray

Specifications

Type of movement:	rocking and rolling
Amplitude/angle:	15 mm, 3° fixed
Speed:	5 ... 80 rpm
Max. load:	2 kg
Number of rollers:	6
Timer:	0 ... 99 h 59 min/continuous
Temperature range:	5 ... 45 °C
Max. CO ₂ range:	5%
Max. humidity:	85%, not condensing
Dimensions (W x D x H):	244 x 465 x 115 mm
Roller size (l x Ø):	300 x 32 mm
Weight:	7.3 kg
Power supply:	100 ... 240 V, 50/60 Hz
Protection class:	IP 21

Type	PK	Cat. No.
RM 2	1	4663359*LLG

Vortexer MSV-3500 4P



Suitable for soft or intensive mixing of reagents in tubes of different sizes (0.2 to 50 ml).

- Two-line LCD shows set and actual values of time and speed
- Timer (0 to 60 min) or continuous operation

- Incl. four easy interchangeable platforms

Scope of supply: Vortexer, 4 attachments for tubes from 0.2 to 50 ml, operating instructions, manual

Specifications

Type of movement:	Orbital/vortex
Orbital diameter:	4 mm
Speed range:	300 ... 3500 rpm
Dimension (W x D x H):	180 x 170 x 145 mm
Power supply:	120 ... 230 V, 50/60 Hz

Type	PK	Cat. No.
MSV-3500 4P	1	7983339*LLG

Thermo shaker LLG-uniTHERMIX 1 pro



The LLG-uniTHERMIX 1 pro is ideal for shaking and tempering various tubes or plates (depending on the block used). The high-temperature stability, fast heating rate and excellent mixing results make it perfect for the life science sector. The heating blocks are magnetically attached to the LLG-uniTHERMIX 1 pro and do not need to be screwed in place.

- Easy and quick change of the heating blocks thanks to magnetic attachment
- Temperatures up to 100 °C
- Temperature accuracy of ±0.5 °C (at 20 ... 45 °C)
- Efficient mixing at up to 1500 rpm, depending on the block used
- Up to 9 programmes can be stored
- Automatic block recognition

Blocks must be ordered separately.

Scope of supply: thermal shaker

Specifications

Temperature range	RT + 5 °C ... approx. 100 °C
Temperature control:	±0.5 °C (at 20 ... 45 °C)
Uniformity:	±0.5 °C (at 20 ... 45 °C)
Max. heating rate:	5.5 °C/min
Speed range:	300 ... 1500 rpm
Orbit:	3 mm
Display:	LCD
Programs:	6 stages, 9 programs
Timer:	1 ... 99 hours or continuous
Dimensions (W x D x H):	200 x 235 x 120 mm
Weight:	7.3 kg
Power supply:	220 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-uniTHERMIX 1 pro	EU	1	6263482*LLG
LLG-uniTHERMIX 1 pro	UK	1	6263483*LLG

Heating blocks for LLG-uniTHERMIX 1 pro



For	PK	Cat. No.
24 tubes, 1.5 ml	1	6263487*LLG
24 tubes, 2 ml	1	6263494*LLG
8 tubes, 15 ml	1	6263496*LLG
4 tubes, 50 ml	1	6263497*LLG
96/384 microplate	1	6263499*LLG



Magnetic stirrer MSL 25 and MSL 50 Digital

Magnetic stirrer with powerful, brushless motor for mixing large quantities. The recessed control panel protects against leaking liquids.

- Clear LCD
- Soft start
- SpeedServo™ technology keeps the speed constant even when viscosity changes
- Programmable auto-reverse function to change the direction of rotation
- Safety lock prevents unintentional changes to settings

Specifications	MSL 25 MSL 50
Stirring quantity:	25 l 50 l
Speed range:	40 ... 1500 rpm 20 ... 1000 rpm
Timer:	1 min ... 99 h 59 min
Dimensions (W x D x H):	253 x 269 x 71 mm 354 x 369 x 77 mm
Power supply:	100 ... 240 V, 50 ... 60 Hz



MSL 25 Digital



MSL 50 Digital

Type	Plug type	PK	Cat. No.
MSL 25 Digital	EU	1	6313616*LLG
MSL 25 Digital	UK	1	6522206*LLG
MSL 50 Digital	EU	1	6491202*LLG
MSL 50 Digital	UK	1	6522969*LLG

Multi-position Magnetic stirrer
AMI 4, illuminated



Stirring plates individually controllable



Multi-position magnetic stirrer with illuminated stirring positions for stirring volumes up to 5 l per position. With epoxy-coated metal housing.

- 4 stirring positions, individually adjustable
- Gentle start-up
- Illuminated stirring positions
- Electronic speed control up to 1100 rpm
- Low height

Specifications	
Stirring volume each (H ₂ O):	5 l
Speed (max.):	1100 rpm
Distance between stirring positions:	150 mm
Dimensions (W x D x H):	600 x 270 x 55 mm
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	PK	Cat. No.
AMI 4	1	4666685*LLG

Multi-position magnetic stirrer
MULTISTIRRER Digital



With epoxy painted, robust steel housing and stainless steel set-up plate for protection against leaking liquids. Bright LED display for accurate speed monitoring and timer for unattended operation.

- Synchronous speed of all stirring positions
- Adjustable, time-controlled auto-reverse function
- Torque compensation to keep the speed constant in case of viscosity changes
- Also suitable for use with water baths

Specifications	MULTISTIRRER Digital 6 // Digital 15
Max. volume each (H ₂ O):	400 ml // 250 ml
Power rating:	3.6 W // 15.9 W
Speed range:	80 ... 1500 rpm
Number of stirring positions:	6 // 15
Distance between stirring positions:	100 mm // 74 mm
Stirring positions:	Ø 85 mm // Ø 64 mm
Timer:	1 ... 900 min
Auto reverse:	5 ... 900 min
Dimensions (W x D x H):	230 x 370 x 51.5 mm
Power supply:	100 ... 240 V, 50/60 Hz
Warranty:	3 years

Type	PK	Cat. No.
MULTISTIRRER Digital 6	1	4666681*LLG
MULTISTIRRER Digital 15	1	4666682*LLG

Magnetic stirrer TWISTER



- Innovative Design
- Modular System

IKA®



Set 1

Set 4

Without heating. The TWISTER is a universal and particularly compact mixing device with a magnetic drive, which can be expanded to a multi-position magnetic stirrer with a wide range of applications by connecting up to 30 devices in series. The stirring points can be controlled either separately or simultaneously (leader-follower principle).

- Intuitive and chemically resistant 360° LED glass display for conveying all information without an alphanumeric display
- Integrated beaker detection
- Changing the direction of rotation in definable intervals (reverse function).
- Suitable for operation in incubators up to 40 °C
- Cleaning under the tap is possible

Set 1 Scope of delivery: 1 x TWISTER magnetic stirrer, 1 x plug-in power supply unit with adapter, magnetic stirring bar
Set 2 Scope of delivery: 2 x magnetic stirrers TWISTER, 1 x plug-in power supply unit with adapter, 2 x magnetic stirring bars
Set 3 Scope of delivery: 3 x TWISTER magnetic stirrers, 1 x plug-in power supply unit with adapter, 3 x magnetic stirring bars
Set 4 Scope of delivery: 4 x TWISTER magnetic stirrers, 1 x plug-in power supply unit with adapter, 4 x magnetic stirring bars

Specifications

Max. stirred volume per position:	5 l
Speed range:	100 ... 3000 rpm
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity:	80%
Material Top plate:	Glass
Dimensions Top plate (W x D):	124 x 124 mm
Dimensions (W x D x H):	135 x 135 x 24 mm
Weight:	0.6 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 66

Type	Stirring capacity	PK	Cat. No.
	l		
TWISTER Set 1	5	1	4685997*LLG
TWISTER Set 2	10	1	4685998*LLG
TWISTER Set 3	15	1	4685999*LLG
TWISTER Set 4	20	1	4686000*LLG

Rocking shakers Duomax 1030

heidolph
research made easy



The Duomax 1030 rocking shakers generate a 2-dimensional tilting movement and are suitable for Petri dishes, culture flasks, Erlenmeyer flasks and all standard vessels.

- With overheating protection that switches the device off in an emergency, important for unattended continuous use
- Infinitely adjustable speeds for all common standard vessels
- With timer function

Specifications

Type of movement:	rocking
Tumbling angle:	5° or 10°
Speed range:	2 ... 50 rpm
Max. Load:	5 kg
Timer:	1 ... 120 min
Permissible ambient temperature:	5 ... 31 °C
Permissible relative moisture:	80%
Platform dimensions (W x D):	290 x 258 mm
Power supply:	230 V, 50/60 Hz
Protection class acc. to DIN EN 60529:	IP 40

Type	Inclination angle	PK	Cat. No.
	°		
Duomax 1030	5	1	9839855*LLG
Duomax 1030	10	1	9839856*LLG

Overhead stirrers OHS Digital

Powerful, robust overhead stirrers with display and electronic speed control. With integrated timer and overload, overtemperature and overcurrent protection.

- Stable torque over the entire speed range with automatic compensation
- Torque indication in the LED display
- Timer
- USB interface for installing software updates

Specifications

Speed range:	30 ... 2000 rpm (OHS 100 Digital: 30 ... 1300 rpm)
Power rating:	190 W
Chuck range:	Ø 1 ... 13 mm
IP code:	IP 54
Power supply:	230 V, 50/60 Hz
Warranty:	3 years

Type	Stirring capacity	max. Viscosity	PK	Cat. No.
	l	mPa.		
OHS 20 Digital	25	10000	1	4666660*LLG
OHS 40 Digital	25	25000	1	4666659*LLG
OHS 60 Digital	40	50000	1	4666658*LLG
OHS 100 Digital	100	70000	1	4666657*LLG



LABORTOPS

LLG-Magnetic stirrer RCT standard 2.0

The next generation of the IKA/LLG-Labware top seller LLG-RCT Standard.

- Digital controlled speed and temperature
- Clearly arranged LED display
- Digital display of set safety temperature limit
- Hot top indicator, hot surface warning to prevent burns
- Adjustable safety circuit of heating plate temperature
- Digital error code display
- Connection for external PT1000 temperature probe
- Aluminium hotplate for optimal heat transfer
- Enhanced safety due to improved heat control technology
- USB interface
- Powerful motor
- Improved magnetic coupling
- Supplied with housing protection cover
- Tested acc. to DIN EN IEC 61010-1

Scope of supply: Magnetic stirrer, temperature probe PT1000, screwdriver, protective cover, C16 mains cable (H11)



- Complete set with PT 1000 and protective cover
- Large display
- Made in Germany



Specifications

Max. stirring quantity (H ₂ O):	20 l
Speed range:	50 ... 1500 rpm
Heating plate:	Ø 135 mm
Temperature range:	RT + device self-heating ... 310 °C
Heat output:	600 W
Safety temperature range:	50 ... 360 °C
Dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.4 kg
Power supply:	220 ... 230/115/100 V, 50/60 Hz
IP code:	IP 42
Warranty:	3 years

Type	Plug type	PK	Cat. No.
LLG-Magnetic stirrer RCT standard 2.0	EU	1	6320400*LLG
LLG-Magnetic stirrer RCT standard 2.0	CH	1	6320401*LLG
LLG-Magnetic stirrer RCT standard 2.0	UK	1	6320402*LLG