



**VALID UNTIL
30/09/2026**

LABSOLUTE® COVER GLASSES

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LABORATORY BOTTLES PROTECT+ DURAN®, 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. 10 ml and 25 ml bottles with specially shaped glass edge for improved pouring. GL45.

- 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	4.693 738
250	1	4.693 740
500	1	4.693 742
1000	1	4.693 744

SAFETY BOTTLE CARRIER, PP



Bottle carrier made of thermoplastic elastomer (PP blend) for safe transport of bottles in laboratories. The ergonomic handle prevents hand fatigue and related accidents when carrying.

- Centring ring stabilises the bottle in the centre of the carrier
- Handle can be pushed down on both sides for easier loading and unloading
- With labelling field for easy identification

For bottles ml	Colour	Height mm	Diam.	PK	Cat. No.
1500	Red	165	114 mm	1	4.688 196
1500	Black	165	114 mm	1	4.688 197
1500	Blue	165	114 mm	1	4.688 198
1500	Green	165	114 mm	1	4.688 199
4500	Red	267	183 mm	1	4.688 192
4500	Black	267	183 mm	1	4.688 193
4500	Blue	267	183 mm	1	4.688 194
4500	Green	267	183 mm	1	4.688 195

LLG-HAND TOWEL DISPENSER



White, plastic, easy to refill, lockable with a viewing window to check the fill level, for towels up to 245 mm wide. E.g. Order no.: 6.266 568

Dimensions (W x D x H) mm	PK	Cat. No.
280 x 137 x 375	1	7.618 375

HAND TOWELS, BRIGHT WHITE, 3-PLY



The LABSOLUTE® folded towels with full deployment, high absorbency and convenient size are particularly economical to use.

Description	Width mm	Length mm	PK	Cat. No.
20 packs with 100 towels	220	420	2000	7.695 262



MICROCENTRIFUGE 5425/5425 R WITH FA-24X2 ROTOR AND LID



- Including Rotor
- Max. Speed: 21,300 × g
- Soft-touch one-finger lid lock



The 5425 and 5425 R microcentrifuges are whisper-quiet and offer outstanding features for a wide range of molecular and cell biology applications in Eppendorf and PCR tubes from 0.2 to 5 ml. The refrigerated centrifuge 5425 R with its advanced cooling system offers precise temperature control for processing temperature-sensitive samples.

- With aerosol-tight FA-24x2 rotor and QuickLock® Pro lid
- Rotor for 24 x 1.5/2.0 ml tubes
- Outstanding software functions (e.g. adjustable acceleration and deceleration ramps, short function without constant key pressure)
- Extended rotor programme (e.g. 5.0 ml rotor, swing-out rotor for PCR strips)
- OptiBowl® design for quiet operation, even without rotor lid
- Soft-touch one-finger lid lock for ergonomic operation
- Max. Speed: 21.300 × g (15.060 rpm)

This centrifuge is a General Lab Product for research purposes only.

Type	Rotation speed rpm	With cooling	PK	Cat. No.
5425 *	100 ... 15.060	-	1	4.709 814
5425 R *	100 ... 15.060	+	1	6.495 820
5425 **	100 ... 15.060	-	1	4.709 816
5425 R **	100 ... 15.060	+	1	6.495 821

* with membrane keyboard; ** with rotary knobs

SAFE-LOCK TUBES® BIOBASED, PP



- ACT certified
- Made from 2nd generation recycled raw materials

Made from 2nd generation recycled raw materials (e.g. recycled food oil wastes). The hinged Safe-Lock lid prevents unintentional opening. The lid seal ensures minimal evaporation rates during long-term storage and the frosted lid surfaces and jar sides enable easy and durable labelling.

- Autoclavable when open (121 °C, 20 min)
- ISCC PLUS and ACT certification

Nominal capacity ml	Description	PK	Cat. No.
0.5	Eppendorf Quality	500	4.712 691
1.5	Eppendorf Quality	1000	4.712 694
2.0	Eppendorf Quality	1000	4.712 695
0.5	PCR clean *	500	4.712 690
1.5	PCR clean *	1000	4.712 692
2.0	PCR clean *	1000	4.712 693

* Pyrogen-, Dnase-, Rnase-, DNA-free

RACKS FOR MICRO TUBES, 80 WELLS, PP



The stable, autoclavable LABSOLUTE® racks made of PP provide space for up to 5 x 16 tubes (Ø well 11 mm). The wells are suitable both for 1.5 ml and 2.0 ml tubes and individually marked.

Colour	PK	Cat. No.
Blue, yellow, green, orange, pink	5	7.696 351
Blue	1	7.696 352
Yellow	1	7.696 353
Green	1	7.696 354
Orange	1	7.696 355
Pink	1	7.696 356

LIGHT MICROSCOPES EDUCATIONAL-LINE OBE 132



- Binocular, achromatic objectives 4x, 10x, 40x, 100x (oil, spring-loaded)
- Butterfly tube, 30° inclined/360° rotatable
- 4-position objective revolver
- Coaxial coarse and fine adjustment
- ABBE 1.25 condenser, focusable and with aperture diaphragm
- Continuously dimmable 3 W LED illumination
- Storage compartment on the rear
- USB port (serves only as a power source)
- With dust cover, eyecups and operating instructions
- Various colour filters available as options

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	PK	Cat. No.
OBE 132	1	4.670 983

MICROSCOPE SLIDES, GROUND EDGES



Made of soda-lime glass. According to DIN ISO 8037-1 & 8037-2. 76 x 26 mm. Thickness about 1 mm. Pre-cleaned and ready for use. 20 mm wide, coloured or colourless frosted area at one end on one side. Also useable for automated processing.

Description	Writing area	PK	Cat. No.
90° corners, with frosted area	-	50	7.695 003
45° corners, without frosted area	-	50	7.695 004
45° corners, with frosted area	White	50	7.695 012
45° corners, with frosted area	Yellow	50	7.695 015
45° corners, with frosted area	Green	50	7.695 016

SPOT PLATES, PORCELAIN



The LABSOLUTE® spot plates are made of high-quality porcelain. The surface is completely glazed. Compared to the reaction plates made from plastics, the porcelain spot plates are much more resistant against influences of temperature and chemicals.

Number of cavities	Width mm	Length mm	Bore diam. mm	PK	Cat. No.
6	112	81	25	1	7.694 985
12	115	91	17	1	7.694 986

DIGITAL REFRACTOMETER RFM732-M/RFM742-M



- IP65 protection rating
- Intuitive software
- Fully automatic measurements



Robust, fully automated measuring device with °Brix scale and automatic temperature compensation to 20 °C in accordance with ICUMSA. The device can be connected to a printer or PC and output measurement results in standard print, CSV or secure PDF formats.

- Additional user scales allow measurement in various formats (e.g. RI, Öchsle, Baumé)
- Integrated library for user scales
- AG temperature equalisation enables range calibration for AG solutions
- Bright, high-resolution 4" HD colour display
- Two display modes (red or colour)
- "Hands-free" auto-sense measurement
- Time-delayed measurement
- Wide beam scan for non-homogeneous samples
- USB (A), USB (B), and Ethernet interface

Measuring range: 0 ... 100 °Brix 1.33 ... 1.54 RI
Resolution: 0.1 °Brix 0.0001 RI
Temperature: 5 ... 40 °C
Accuracy temperature: ±0.05 °C
Power supply: 100 ... 240 V, 50/60 Hz

Type	Accuracy	PK	Cat. No.
RFM732-M	±0.1 °Brix ±0.0001 RI	1	4.694 484
RFM742-M	±0.04 °Brix ±0.00005 RI	1	6.317 586

COVER GLASSES, RECTANGULAR, THICKNESS 1 (0.13 - 0.16 mm)



The LABSOLUTE® cover glasses made of borosilicate glass 3.3 of the first hydrolytic class are the perfect addition to every microscopy system. They are guaranteed free of contamination, bubbles or smears and comply with DIN ISO 8255-1 and 8255-2. The cover glasses are supplied in especially handy and secure boxes.

Dimensions mm	PK	Cat. No.
20 x 20	200	7.695 024
22 x 22	200	7.695 025
24 x 24	200	7.695 026

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 available on request.

Type	Path length	Material	PK	Cat. No.
	mm			
W600/OG/10	10	optical glass	1	6.207 120
W600/OG/1/2"	12.7	optical glass	1	9.947 341
W600/OG/20	20	optical glass	1	6.522 394
W600/OG/25	25	optical glass	1	6.241 234
W600/OG/1"	25.4	optical glass	1	9.947 342
W600/OG/33	33	optical glass	1	6.093 322
W600/OG/40	40	optical glass	1	6.289 894
W600/OG/50	50	optical glass	1	6.207 119
W600/OG/100	100	optical glass	1	6.235 055
W600/OG/5/4"	133.35	optical glass	1	9.947 343
W600/B/10	10	Borosilicate glass 3.3	1	6.241 927
W600/B/33	33	Borosilicate glass 3.3	1	6.086 921
W600/B/1"	12.7	Borosilicate glass 3.3	1	9.947 344
W600/B/40	40	Borosilicate glass 3.3	1	6.523 826
W600/B/100	100	Borosilicate glass 3.3	1	6.253 940
W600/B/5/4"	133.35	Borosilicate glass 3.3	1	9.947 345

MACRO AND SEMI MICRO CUVETTES



Sorted by mould cavity number. Path length: 10 mm.

Polymethylmethacrylate (PMMA) cuvettes

Typical operating range: from 300 nm to 900 nm.

Polystyrene (PS) cuvettes

Typical operative range: from 340 nm to 900 nm.

Dimensions: 12.5 mm x 12.5 mm x 45 mm
Window: Macro cell 10 mm x 35 mm
Semi micro cell 4.5 mm x 23 mm

Description	Volume	Material	PK	Cat. No.
	ml			
Macro	2.5 to 4.5	PMMA	100	9.406 111
Semi-micro	1.5 to 3.0	PMMA	100	9.406 115
Macro	2.5 to 4.5	PS	100	9.406 110
Semi-micro	1.5 to 3.0	PS	100	9.406 114

TRANSMISSION SPECTROPHOTOMETER ICX



- Precise colour measurement
- Small footprint
- Intuitive touch interface



NEW



Transmission spectrophotometer for the precise and objective colour measurement of clear liquids. The ICx offers user-friendly operation with an intuitive touch interface, integrated method guidance and easy access to results. Built-in help functions and user prompts ensure an efficient workflow. The Lovibond® ICx provides data in accordance with the platinum-cobalt/Hazen/APHA scale (ASTM D1209, ASTM D5386, ISO 6271), as well as the yellow index and CIEL*a*b*colour space.

- Quick sample measurement and result display
- High accuracy and repeatability at very low Pt-Co values
- Integrated data storage for over 100000 measurements
- Interfaces: USB, RS232
- Light source: tungsten halogen
- Compact design saves space on the lab bench
- Chemically resistant aluminium chassis
- Fully sealed optical and electronic components protect against liquid ingress

Path length	PK	Cat. No.
mm		
0.1 ... 152.4	1	4.716 033

PLASTIC DISPOSABLE UV-CUVETTES



Made of plastic for the UV range.
For analyses from 230 to 900 nm.
Path length: 10 mm.

- Ideal for the determination of proteins, DNA, RNA
- number-sorted to reduce extinction deviations
- Vertified windows to protect against scratches

Description	Capacity	PK	Cat. No.
	µl		
UV micro cuvette	70 - 850	100	9.406 120
UV macro cuvette	2.5 ml - 4.5 ml	100	9.406 119
UV semi-micro cuvette	1.5 - 3.0 ml	100	9.406 118

THERMOCYCLER ALPHA CYCLER

Cole-Parmer
an antylla scientific company



The Alpha Cyclers systems contain a novel programme wizard which allows users to define a protocol based specifically on their primer sequence and template source. Primer sequences or T_M's are entered, amplicon length and source defined and the on board algorithm generates an optimised protocol for your assay.

- Multi-block units have totally independent blocks for maximum flexibility
- HD Android driven touchscreen interface for simplified programming
- Generate and send instrument reports to diagnose the health of your system and identify any issues before they impact users work
- Lock programs with user defined password
- Alpha Track mobile app allows remote monitoring of run progress

Alpha Track App (free of charge): Track the progress of runs and health of your system remotely via the mobile app.

The Alpha Track Application is used in conjunction with your Alpha Cyclers and allows users to:

- Remotely track the progress of runs
- Send a health report for diagnosis by the technical support team
- Be notified of any issues and prevent system failures before occurring

Block temperature: 10 to 100 °C
Block uniformity at 55 °C: ±0.3 °C
Temperature accuracy at 55 °C: ±0.25 °C
Max. Heating rate: 3.4 °C/s

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.
AC196	1 x 96 well block	430 x 260 x 200	1	4.658 855
AC1384	1 x 384 well block	430 x 260 x 200	1	4.658 856

PCR MINI COOLER, PP



For protecting samples prior to warming. The mini PCR cooler keeps samples at 4 °C for approx. 3 hours. The insulating gel changes from violet to pink at 7 °C. Suitable for 0.2 ml single vessels, 8-strips, 12-strips as well as 96-well PCR plates.

Description	PK	Cat. No.
PCR Mini cooler	2	6.228 848

PCR CAP STRIPS, PP

NEW



The LABSOLUTE® PCR cap strips are made of virgin PP.

They are compatible with PCR strips 7696562 and 7696563, as well as with PCR plates 7696550, 7696551 and 7696552.

The strips with flat caps are suitable for fluorescence measurements (e.g., qPCR).

Description	PK	Cat. No.
Flat, optically clear cap strips	125	7.696 560
Domed cap strips	125	7.696 561

PCR STRIPS, PP



NEW



The LABSOLUTE® PCR strips offer optimal heat transfer between the cyclers block and the reaction mix thanks to their ultra thin and uniform tube walls.

- Tight seal to minimize liquid loss
- High quality PP
- Working volume ≤200 µl
- **Free from DNase, RNase, human DNA, PCR inhibitors and pyrogens**
- Autoclavable
- Cap strips also available separately

Type	PK	Cat. No.
ICC lite 150	1	4.699 375
ICC lite 150	1	4.699 409
ICC lite 150	1	4.699 429

PCR TUBES 0.2 ML, PP



The LABSOLUTE® PCR tubes offer optimum heat transfer between the thermal cyclers and the reaction mix through their extra thin and uniform vessel walls.

- High-quality PP (metal-free)
- Free from DNase, RNase, human DNA, pyrogens and PCR inhibitors
- Autoclavable at 121 °C

Description	PK	Cat. No.
Flat caps	1000	7.696 502
Domed caps	1000	7.696 503

ULTRASONIC BATHS, SONOREX SUPER

BANDELIN



- Particularly uniform sound field
- With and without heating

These devices work at 35 kHz and have transducers for maximum cleaning power. SweepTec® for permanent sound field oscillation ensures even and gentle cleaning. Available with heating with adjustable temperature range from 30 to 80 °C . Power information: High ultrasonic peak power and nominal ultrasonic power 230 V, 50/60 Hz. All models are spill-proof with stainless steel tanks (RK 102H hard-chromium plated) and outer cases, drip proof (IP32).

Type H with heating adjustable from 30 to 80 °C

Type	Capacity of the bath litres	PK	Cat. No.
RK 31 H	0.9	1	6.200 370
RK 31	0.9	1	9.877 021
RK 52	1.8	1	9.877 052
RK 52 H	1.8	1	9.877 051
RK 100	3.0	1	9.877 100
RK 100 H	3.0	1	9.877 101
RK 102 H	3.0	1	9.877 103
RK 103 H	4.0	1	9.877 114
RK 156 BH	9.0	1	9.877 155
RK 255 H	5.5	1	9.877 256
RK 510	9.7	1	9.877 510
RK 510 H	9.7	1	9.877 511
RK 1028 H	28.0	1	9.877 529



LIDS FOR SONOREX ULTRASONIC BATHS



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	PK	Cat. No.
D 08	RK 31 / 31 H	1	9.877 597
D 52	RK 52 / 52 H	1	9.877 601
D 100	RK 100 H / 102 H / 103 H	1	9.877 603
D 510	RK 510 / 510 H	1	9.877 610
D 1028	RK 1028 H	1	9.877 607

Type	For bath type	PK	Cat. No.
K 1 C	RK 52 / 52 H	1	9.877 631
K 3 C	RK 100 / 100 H / 102 H	1	9.877 633
K 08	RK 31 / 31 H	1	9.877 630
K 10	RK 510 / 510 H	1	9.877 697
K 28	RK 1028 H	1	9.877 698

VOLUMETRIC FLASKS, PLASTIC, CLASS B, PE NS-STOPPERS

ISOLAB
Laborgeräte GmbH



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	9.276 590
50	0.12	12/21	1	9.276 591
100	0.20	14/23	1	9.276 592
250	0.30	14/23	1	9.276 593
500	0.50	19/26	1	9.276 594
1000	0.80	24/29	1	9.276 595

BATCH MILLS
TUBE MILL CONTROL/
TUBE MILL 100 CONTROL



Tube Mill control

Suitable for disposable and reusable grinding chambers.

- Clearly arranged, multilingual OLED-display
- Interval operation available
- Stepless adjustable speed
- Adjustable safety speed and time

Scope of supply:

Tube Mill control:

incl. 1 x grinding chamber MT 40 and MMT 40.1 each

Tube Mill 100 control:

incl. 1 x grinding chamber MT 40, MT 100 and MMT 40.1 each

Operating principle:

Motor rating input/output:

Speed:

Chamber volume:

Timer:

Max. feed hardness:

Dimensions (W x D x H):

Weight:

IP code:

Power supply:

Tube Mill control //
Tube Mill 100 control

cutting/impact

100/80 W

5000 to 25000 rpm

40 ml // 100 ml

5 s to 3 min

5 Mohs

180 x 300 x 170 mm //

180 x 300 x 212 mm

2.7 kg // 2.8 kg

IP 30

220-240 V, 50/60 Hz

Type	Max. Feed quantity/ Flow rate	PK	Cat. No.
	ml		
Tube Mill control	40	1	9.737 790
Tube Mill 100 control	100	1	7.644 727

ACCESSORIES FOR BATCH MILL
TUBE MILL CONTROL/
TUBE MILL 100 CONTROL

Description	PK	Cat. No.
Disposable grinding chamber, 40 ml	10	9.737 791
Disposable grinding chamber, 40 ml, big pack	100	6.260 495
Disposable grinding chamber, 100 ml *	10	6.285 802
Disposable grinding chamber, 100 ml, big pack *	50	7.644 728
Grinding chamber, multi use, 40 ml	1	7.639 994

* only for Tube Mill 100 control

LABORATORY MIXER,
BAGMIXER® 400



For sample
preparation
with adjustable
paddle system

interscience



400 CC

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.

Type	Volume ml	Dimensions (W x D x H) mm	PK	Cat. No.
400 P	50 ... 400	260 x 390 x 290	1	6.204 551
400 W	50 ... 400	260 x 390 x 290	1	6.224 287
400 CC	50 ... 400	260 x 420 x 265	1	9.570 098

BLENDER BAGS, BAGSYSTEM®

interscience

These gamma-ray sterilised bags have a high mechanical stability and ensure safety for the samples. The filters inserted in the bags filter the liquid during sample preparation (washing process) and retain sample particles.

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.



PolySilk 100

Type	Description	PK	Cat. No.
BagLight® PolySilk 100	plain bag, sleeve 25	500	9.570 075
BagOpen® 400	bag opener	1	9.570 084
BagLight® PolySilk 3500	plain bag, sleeve 25	500	9.570 077
BagPage® + 400	full-size filter bag, sleeve 25	500	9.570 081
BagFilter® P 400	side filter bag, sleeve 25	500	9.570 078

SAMPLE SPOON LABOPLAST® BIO/STERIPLAST® BIO, GREEN PE, DISPOSABLE



White. The LaboPlast® Bio/SteriPlast® Bio products are entirely made of renewable resources. Not only with regard to quality but also with regard to its characteristics for high-quality sampling, it is perfectly comparable with conventional polyethylene.

- Individually packed
- SteriPlast® Bio additionally gamma-sterilised
- Production and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guideline

Type	Capacity ml	Length mm	Sterile	PK	Cat. No.
LaboPlast® Bio	2.5	127	-	100	6.265 059
LaboPlast® Bio	10	170	-	100	6.265 060
SteriPlast® Bio	2.5	127	+	100	6.265 053
SteriPlast® Bio	10	170	+	100	6.265 054

SCOOPS PHARMASCOOP, STAINLESS STEEL V4A



For sampling of powders and granulates in the pharmaceutical industry.

- Highly polished surface
- Jointless production
- Autoclavable
- Suitable for food
- GMP-conform

Nominal capacity ml	Diam. mm	Length Scoop mm	PK	Cat. No.
10	25	45	1	6.226 226
50	38	70	1	6.222 382
100	50	100	1	6.226 227
500	95	140	1	7.911 019
750	95	210	1	6.226 228
1000	110	235	1	6.226 229
1250	125	195	1	7.900 430
1700	135	230	1	7.900 429
2500	185	215	1	7.636 598

SAMPLE SCOOPS LABOPLAST® BIO/STERIPLAST® BIO, GREEN PE, DISPOSABLE



White. The LaboPlast® Bio/SteriPlast® Bio products are entirely made of renewable resources. Not only with regard to quality but also with regard to its characteristics for high-quality sampling, it is perfectly comparable with conventional polyethylene.

- Individually packed
- SteriPlast® Bio additionally gamma-sterilised
- Production, assembling and packaging acc. to Cleanroom class 7 (10000)
- According to EU food and FDA guidelines

Type	Capacity ml	Length mm	Sterile	PK	Cat. No.
LaboPlast® Bio	25	141	-	10	6.265 055
LaboPlast® Bio	50	160	-	10	6.265 056
LaboPlast® Bio	100	205	-	10	6.265 057
LaboPlast® Bio	150	216	-	10	6.265 058
SteriPlast® Bio	25	141	+	10	6.265 049
SteriPlast® Bio	50	160	+	10	6.265 050
SteriPlast® Bio	100	205	+	10	6.265 051
SteriPlast® Bio	150	216	+	10	6.265 052

TEST SIEVES FOR ALPINE AIR JET SIEVE MACHINE E200 LS



Robust screen construction with plain stainless steel frame.
Dimensions (Ø x H): 203 x 28 mm

Aperture size mm	PK	Cat. No.
0.032	1	6.269 664
0.045	1	6.269 663
0.063	1	6.267 645
0.075	1	4.670 668
0.09	1	6.269 661
0.100	1	6.318 216
0.2	1	6.285 175

DIGITAL WATER BATHS



- Including lid
- Colour TFT display



- Colour 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

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	External dimensions (W x D x H) mm	PK	Cat. No.
WBE02A12E	2	305 x 229 x 267	1	6.274 985
WBE05A12E	5	305 x 368 x 267	1	6.274 986
WBE10A12E	10	432 x 393 x 305	1	6.274 987
WBE20A12E	20	445 x 572 x 305	1	6.274 988
WBE28A12E	28	445 x 572 x 356	1	6.274 989

LLG- FLOATING PELLETS, PP



Pellets with 20 mm diameter. Can cover 0.1 m². Protect against evaporation and rapid temperature loss. Decreases hazardous vapours. Resistant against most acids, bases, solvents and mineral oils. Temperature stable up to 100 °C.

Description	PK	Cat. No.
Floating pellets	250	6.266 611

THERMOSTATIC CABINETS



The cabinets are equipped with sockets in the interior for connecting stirrers.

- Temperature range 2 °C to 40 °C, continuously adjustable in steps of 0.1 °C
- Illuminated LED display of preset and current temperatures
- Ideal for BOD determination at 20 °C
- With Standard door or glass door

Coolant: R134a
 Fan: Axial, delivery rate 320 m³/h
 Power supply: 220-230 V/50 Hz

Type	Capacity	External dimensions (W x D x H) mm	PK	Cat. No.
TC 135 S	135	600 x 600 x 850	1	9.699 142
TC 710 S	288	600 x 654 x 1684	1	6.492 794
TC 720 S	488	750 x 769 x 1684	1	6.492 795
TC 140 G *	140	600 x 600 x 850	1	9.699 146
TC 715 G *	288	600 x 654 x 1684	1	6.492 988

* With glass door

SHAKING INCUBATOR ES-20/80



Bench-top orbital shaker/incubator for mixing and incubation of samples in a variety of flasks and vessels.

- Touchscreen display for quick parameter setting
- Bluetooth® connectivity to PC for data management, data logging, parameter control and profiling
- Stackable up to 3 units
- Heat-resistant fan
- Timer alarm
- Chamber made of stainless steel

Type of movement: orbital
 Speed range: 50 ... 400 rpm
 Temperature range: 25 ... 80 °C
 Overall dimensions (W x D x H): 620 x 530 x 510 mm
 Power supply: 230 V, 50/60 Hz

Type	PK	Cat. No.
ES-20/80	1	4.684 295

DRY ICE MACHINES SNOWPACK®



Without a power supply



The dry ice machine SnowPack® produces dry ice tablets of -79 °C with 50 or 250 g weight within a short time. Suitable for all European siphon carbon dioxide cylinders with valve (W 21.80 x 1¼" acc. to DIN 477-1, no. 6) without pressure regulator.

- Operates without electricity
- Taint and odour free

Gassing period (per tablet):
Tablets per 22 kg bottle (dependent on ambient temperature and pressure):

approx. 1 min
either 90 or 16
pieces approx.

Type	Tablet weight	Diam.	Height	PK	Cat. No.
	g	mm	mm		
SnowPack® 50	50	50	30	1	9.253 006
SnowPack® 250	250	80	60	1	9.253 008

PROTECTION GLOVES CRYO GLOVES® STANDARD/WATERPROOF

EN 511 EN 388 EN 420



Developed to provide protection while working in very cold environments or handling ultra-cold objects and media (in the range of -160 °C). Especially for secure handling of dry ice (-79 °C), sample handling (-86 °C/-152 °C) and handling ultra cold specimens - those stored in the vapour phase of liquid nitrogen. According to normative EN 511, EN 420, EN 388, **CAT. III**. CAUTION: Not intended for immersion in liquid nitrogen or other liquid cryogenics.
1 pair per pack.

Size	Description	PK	Cat. No.
S (8)	wrist length	1	9.405 116
M (9)	wrist length	1	9.405 117
L (10)	wrist length	1	9.405 118
XL (11)	wrist length	1	9.405 119
S (8)	forearm length	1	9.405 120
M (9)	forearm length	1	9.005 446
L (10)	forearm length	1	9.005 447
XL (11)	forearm length	1	9.405 121

FREEZER BOXES B35-85, UP TO -85 °C

FRYKA



- Compact
- Space-saving
- Quiet



B 35-85 //logg

The cold boxes are small benchtop units for cooling and freezing in all laboratories. Due in particular to its compact space-saving design and the low-noise cooling unit, the cold box is suitable for direct use in the workplace.

- Vacuum insulation: spacious interior with compact external dimensions and low power consumption
- Extremely quiet refrigeration unit
- Uses natural refrigerants (R-290, R-170)
- Maximum safety thanks to a mains-independent alarm with a battery providing approx. 72 hours of power
- Visual and audible alarm signal
- Lockable insulated door with door frame heating and double magnetic seal with additional lip

Cold boxes B35 //logg:

- Touchscreen control with colour display and integrated data logger for full traceability
- User-friendly menu structure, remote access via network/internet
- Real-time display of the temperature profile and further values
- Recording the temperature profiles and alarm events
- Integrated memory with up to 12 years memory capacity
- Data for transfer to PC can be read out via USB interface
- Ethernet interface (RJ45)

Control accuracy: ±1 K
Ambient temperature: +12 to +30 °C
Power supply: 230 V/50 Hz

Type	Capacity	External dimensions (W x D x H)	PK	Cat. No.
	Litres	mm		
B 35-85	35	580 x 765 x 540	1	7.982 609
B 35-85 //logg	35	580 x 765 x 580	1	6.284 404

JUMBO TIMER



The LABSOLUTE® jumbo timer has an extra large display and a combination of an audible and visual alarm. During the countdown, the start and stop button lights up green; once the time has expired, the audible signal and the red light both indicate the end of the countdown.

- Dimensions (W x H x D): 90 x 60 x 20 mm
- 2x AAA batteries included
- Four-digit display up to 99 minutes, 59 seconds
- Countdown and countup function
- Triple memory function
- Alarm volume has three level settings
- Simple fastening with magnet, clip and stand

Description	PK	Cat. No.
Jumbo timer	1	7.695 453

STOPWATCH, DIGITAL



1/100 seconds, split time, clock, date with weekday, hourly chime, alarm with snooze function, lanyard.
Measuring range: Time up to 23 h, 59 min, 59 sec.
Dimensions (W x H x D): 65 x 79 x 21 mm,
Weight: 50 g,
incl. 1x 1.5 V LR44 battery, EK-EL

Type	PK	Cat. No.
Stopwatch	1	9.851 018

THERMO-TIMER



Time and temperature controlled

The Thermo-Timer timer switch can control devices up to 3600 watts based on temperature, time, or a combination of both. The waterproof cable probe allows temperature measurement in remote locations and in liquids.

- For time- and/or temperature-controlled switching
- Timer mode (three possible on/off time pairs)
- Thermostat mode (automatic switch-on when the temperature falls below a certain level)
- Thermo-timer mode (combination)
- Switching capacity up to 3600 watts (16 A at 230 V)

Scope of delivery: Thermo-timer, battery, operating instructions

Measuring range:	0...+40 °C
Cable length approx:	100 cm
Batteries included:	1 x 1.5 V AAA
Dimensions (L x W x H):	67 x 77 x 130

Type	PK	Cat. No.
Thermo-Timer	1	6.328 856

RADIO CONTROLLED WALL CLOCK



- Highest precision radio-controlled clock
- Analogue display with second hand
- Digital display of date
- Large dial
- Ideal for home, office, waiting room, lobby or entrance hall and as a gift
- Ø 300 mm
- Battery included 1.5 V AA

Type	PK	Cat. No.
Radio controlled wall clock	1	9.851 019

DIGITAL WIRELESS RAIN GAUGE MONSUN



- Wireless transmission of outdoor temperature and rainfall with temperature trend display
- Display of total rainfall, rainfall in the last hour, rainfall in the last 24 hours and last rainfall, with time and date of recording
- Bar-chart display and history of the last 7 days, weeks and months
- Rain sensor with alarm
- Display of indoor temperature (-10 to 50 °C) and outdoor temperature (-50 to 70 °C)
- Max.-Min. function
- Adjustable temperature alarm
- Clock with date
- Battery operation: 3 x 1.5 V AA (base station), 2 x 1.5 V AA (thermo rain gauge)

Scope of supply: Base station, thermo rain gauge 30.3161, batteries, instruction manual

Measuring range: 0 ... 9.999 mm
Dimensions (L x W x H): 25 x 94 x 122

Type	PK	Cat. No.
MONSUN	1	6.523 857

THERMOMETER POCKET-DIGITEMP



Waterproof temperature meter in a food-grade plastic housing. The housing is completely waterproof (in accordance with EN 13485).

- 1-second measuring frequency
- Max-Min-Hold function



Sensor: NTC
Measuring range: -40 °C to 200 °C
Resolution: 0.1 °C
Accuracy: ±0.8 °C (at 0 °C to 100 °C) others 1.5 °C
Dimensions: 202 x 20 x 16 mm
Probe dimensions: 126 x 3.5 mm
Weight: 40 g
IP code: IP65

Type	PK	Cat. No.
Short version	1	9.851 028

LABORATORY THERMOMETER TFX 410/TFX 410-1

Robust and impact-resistant temperature measurement device for Pt 1000 penetration probe (connection Lemo size 0). Conform to HACCP and DIN EN 13485. With battery and factory calibration certificate.

- Probes made of stainless steel, for temperatures up to +400 °C
- Accuracy: exceeds DIN IEC 584, class 1



Measurement range: -50 ... +300 °C
Accuracy: ±0.3 °C
Resolution: 0.1 °C
Certificate: 3-point factory calibration
Operating temperature: -25 °C to +50 °C
Storage temperature: -30 °C to +70 °C
Dimensions (L x W x H): 54 x 22 x 109 mm (without probe)
Weight: Approximately 90 g
Power supply: 3.0 V Lithium, replaceable
IP code: IP 67

Type	Description	PK	Cat. No.
TFX 410	with assigned probe	1	6.206 350
TFX 410-1	without probe	1	6.207 171
TFX 410-1 + TPX 400	with probe	1	6.205 686

THERMOHYGROMETER TESTO 608



- Continuous display of temperature and humidity or dewpoint
- With dew point calculation and max/min display
- Battery monitoring

Measuring range: 0 ... 50 °C
Accuracy (at 25 °C): ±0.5 °C (±1 digit)
Dimensions: 111 x 90 x 40 mm
Power supply: 9 V block battery

Type	PK	Cat. No.
testo 608-H1	1	9.726 964



SCREW NECK VIALS ND24 (EPA)



Screw neck vials ND24 made of clear and amber first hydrolytic class glass are suitable for EPA (Environmental Protection Association) analysis and can, upon request, be supplied with a sterility certificate that is specifically required for TOC analyses.

Type	Description	Capacity ml	Size mm	PK	Cat. No.
(1)	Clear glass	20	57 x 27.5	100	7.663 211
(2)	Amber glass	20	57 x 27.5	100	7.631 988
(3)	Clear glass	30	72.5 x 27.5	100	7.615 411
(4)	Amber glass	30	72.5 x 27.5	100	7.632 370
(5)	Clear glass	40	95 x 27.5	100	7.663 215
(6)	Amber glass	40	95 x 27.5	100	7.663 216
(7)	Clear glass	60	140 x 27.5	100	7.663 217
(8)	Amber glass	60	140 x 27.5	100	7.616 902

SCREW SEALS ND24 (EPA)



WITH BUTYL/PTFE SEPTA

These septa are temperature-resistant from -40 °C to 120 °C and have excellent chemical properties.

Type	Description	Hardness	Thickness mm	PK	Cat. No.
(9)	Butyl red / PTFE grey	55° shore A	2.5	100	7.664 004
(10)	Butyl red / PTFE grey, closed	55° shore A	2.5	100	7.664 005

WITH SILICONE/PTFE SEPTA, EPA QUALITY

These septa are temperature-resistant from -60 °C to 200 °C and have better purity than septa made of natural rubber, butyl or red rubber. However they have less effective resealability properties and are therefore more suitable for single-injection applications.

Type	Description	Hardness	Thickness mm	PK	Bestell Nr.
(11)	Silicone white / PTFE beige	45° shore A	3.2	100	7.664 006
(12)	Silicone white / PTFE beige, closed	45° shore A	3.2	100	7.664 007

WITH SILICONE/PTFE SEPTA, ULTRABOND, EPA QUALITY

These septa are temperature-resistant from -60 °C to 200 °C and have better purity than septa made of natural rubber, butyl or red rubber. However, they have less effective resealability properties and are therefore more suitable for single-injection applications.

With Ultrabond seals, the caps and septa form an inseparable unit, which means that even a blunt needle is unable to push the septa into the vial.

Type	Description	Hardness	Thickness mm	PK	Cat. No.
(13)	Silicone natural / PTFE beige	45° shore A	3.2	100	7.612 151
(14)	Silicone natural / PTFE beige, closed	45° shore A	3.2	100	7.616 000

ND13, ND18, ND20 HEADSPACE, ND24 (EPA)



PP. Autoclaveable. Temperature resistant from -80 °C to 125 °C. Stackable. Alphanumerically coded positions.

Type	Dimensions W x H x D mm	Colour	Positions	Vial size ml	PK	Cat. No.
(15)	130 x 70 x 130	Violet	16	20	1	7.659 996
(16)	130 x 105 x 130	Violet	10	30, 40	1	7.659 995

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 is conform to USP Type I and ASTM E438, Type I, Class A. Please order closing caps separately.

Outer diam. mm	Wall thickness mm	Length mm	PK	Cat. No.
4.95 ± 0.05	0.38	178	100	9.400 310
4.95 ± 0.05	0.38	203	100	9.400 311

CLOSING CAPS FOR NMR AND EPR TUBES



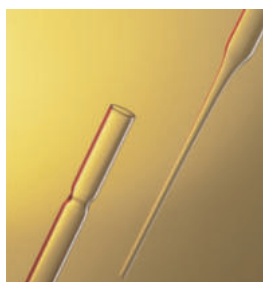
For 5 mm NMR tubes.

Colour	PK	Cat. No.
red	50	4.688 374
green	50	4.688 375
yellow	50	4.688 376
blue	50	4.688 377

PASTEUR PIPETTES, SODA GLASS



Extra-long tip for NMR



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

Length mm	PK	Cat. No.
300	1000	4.672 077
350	1000	4.672 078

NMR TUBE RACK, PP



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	9.301 065

NMR SPATULA, STAINLESS STEEL



NEW

Stainless steel 1.4301, polished.



Width mm	Overall length mm	PK	Cat. No.
3	195	1	4.719 842

NMR BRUSHES



Length mm	PK	Cat. No.
250	5	4.669 337

pH/REDOX METER pH 3110 SET SM PRO, LLG PREMIUM LINE, INCL. pH ELECTRODE SENTIX 41 AND PROTECTIVE COVER SM PRO.



The meter pH 3110 Set SM PRO is ready-to-use for portable pH and Redox measurement.

- With proven, universal pH electrode Sentix 41
- Additional protection due to protective cover SM Pro made of silicone
- Waterproof according to IP67
- 3-point calibration with technical or DIN/NIST buffers
- Integrated calibration timer for reminding to calibrate regularly

Scope of supply: pH meter pH 3110 ProfiLine, pH electrode Sentix 41, buffer STP 4/STP 7 (50 ml each), protective cover SM Pro, KCL solution, measuring beaker (50 ml), electrode holder, carrying case

Measuring ranges

pH: -2.0 ... 20.0 ; -2.00 ... 20.0 ; -2.000 ... 19.999
Accuracy: ± 0.01 (± 1 digit) ± 0.005 (15 °C ... 35 °C)
mV/Accuracy: $\pm 1200.0/\pm 0.3 \pm 2000/\pm 1$
Temperature: -5 ... 105 °C

pH electrode Sentix 41

Plug type: DIN
Ø: 12 mm
Electrolyte: Gel
Length cable: 1 m

Type	PK	Cat. No.
pH 3110 Set SM PRO	1	4.684 148

LITHMUS PAPERS



Lithmus papers are useful for determining whether a solution is acidic or basic.

Scope of supply:
10 booklets of 20 papers

Colour	PK	Cat. No.
red (pH 5 to 8)	200	6.328 823
blue (pH 8 to 5)	200	6.328 824

pH TESTER TESTO 205



The testo 205 is a robust food penetration measuring instrument for temperature and pH values, with automatic temperature compensation.

- pH tip embedded in breakage-proof plastic
- Combined penetration tip with temperature probe
- Maintenance-free gel electrolyte

Scope of supply: Instrument, penetration probe, storage cap, belt and wall holder



pH range: 0 ... 14
Resolution: 0.01
Measuring range: 0 ... 60 °C
Power supply: Incl. 4 x batteries LR44

Type	PK	Cat. No.
Set testo 205	1	7.615 330

pH METER TESTO 206-PH2

- Combined probe tip with temperature sensor
- Maintenance-free gel electrolyte

Scope of supply: Instrument, storage cap with gel filling, TopSafe, belt and wall holder



Measuring range: 0 ... 60 °C
Resolution: 0.1 °C
Power supply: 1 x CR2032

Type	PK	Cat. No.
Set testo 206-PH2	1	7.620 869

pH INDICATOR STRIPS



The CHEMSOLUTE® pH indicator strips enable fast and accurate pH value determination. The range offers suitable products for a wide variety of pH value intervals.

- High accuracy and easy legibility
- Stable carrier strips with coloured test fields
- Non-bleeding, no contamination of the medium
- 100 strips per pack

Range	pH steps	PK	Cat. No.
pH			
0 - 14	1.0	100	2714.0001
0 - 14 *	1.0	100	2717.0001
0 - 6.0	0.5	100	2730.0001
2.0 - 9.0	0.5	100	2740.0001
4.0 - 7.0	**	100	2760.0001
4.5 - 10.0	0.5	100	2770.0001
7.0 - 14.0	0.5	100	2790.0001
* in flip-top vial			
** 4.0 - 4.4 - 4.7 - 5.0 - 5.3 - 5.5 - 5.8 - 6.1 - 6.3 - 7.0			

CONDUCTIVITY CELL PROBES TETRACON® 325



4-pole cell with integral temperature sensor.
Measuring range: 1 $\mu\text{S}/\text{cm}$ to 2 S/cm .

Length	Electrode	Shaft	Cable length	PK	Cat. No.
mm			m		
120	Graphite	Epoxy resin	1.5	1	9.704 081

IDS CONDUCTIVITY CELL PROBES TETRACON® 925



Intelligent digital 4-pole cell with integral temperature sensor.
Automatic transfer of the cell constant.
Measuring range: 1 $\mu\text{S}/\text{cm}$ to 2 S/cm .

Length	Electrode	Shaft	Cable length	PK	Cat. No.
mm			m		
120	Graphite	Epoxy resin	1.5	1	7.653 077

LLG-ELECTRODE STAND FOR 3 ELECTRODES



With cable duct



Base plate: 105 x 125 mm
Base plate weight: 0.7 kg
Arm weight: 0.1 kg
Max. arm height: 320 mm

Type	PK	Cat. No.
LLG-Electrode stand	1	6.286 248

CONDUCTIVITY METER PROFILE COND 3310



Comfortable and versatile conductivity meter with integral, time controlled, data logger and 5000 GLP-compliant record memory for extended data collection. Menu controlled, with backlit, graphics display for comfortable, safe operation.

Measuring ranges/Resolution

Conductivity: 0.00 $\mu\text{S}/\text{cm}$... 19.99 $\mu\text{S}/\text{cm}$ (when $K=0.1 \text{ cm}^{-1}$)
0.000 $\mu\text{S}/\text{cm}$... 1.999 $\mu\text{S}/\text{cm}$ (when $K=0.01 \text{ cm}^{-1}$)
TDS: 0 ... 1999 mg/l , 0.0 ... 199.9 g/l
Spec. resistance: 0.0 ... 999 $\text{M}\Omega/\text{cm}$
Memory: 5000 records (measured value, temperature, date, time, ID)

Type	Description	PK	Cat. No.
Cond 3310	Meter only	1	9.774 409
Cond 3310 Set 1	Case set including conductivity probe TetraCon 325 and accessories	1	9.774 400

pH BUFFER SOLUTIONS WITHOUT COLOUR CODING (20 °C)



- Accuracy: ± 0.02 pH units, reference temperature 20°C
- Traceable to standard reference material of the National Institute of Standards and Technology (NIST)
- In PP bottles

Description	Capacity ml	PK	Cat. No.
pH 1.00	1000	1	1111.1000
pH 2.00	1000	1	1112.1000
pH 3.00	1000	1	1113.1000
pH 4.00	1000	1	1114.1000
pH 4.00	5000	1	1114.5000
pH 5.00	1000	1	1115.1000
pH 6.00	1000	1	1116.1000
pH 7.00	1000	1	1117.1000
pH 7.00	5000	1	1117.5000
pH 8.00*	1000	1	1118.1000
pH 9.00*	1000	1	1119.1000
pH 9.00	1000	1	6519.010
pH 10.00*	1000	1	1120.1000
pH 10.00	1000	1	6520.010
pH 11.00*	1000	1	1121.1000

* Danger, GHS08, H360FD, P201 P280 P308+P313 P501

BOTTLE-TOP DISPENSER DISPENSETTE® ANALOG S



Made in Germany

The Dispensette® S bottle-top dispenser makes liquid dosing easy and secure.

- Autoclavable (121 °C)
- Easy to calibrate and adjust to comply with ISO 9001 and GLP guidelines
- Easy to disassemble for cleaning
- DE-M marking

Red colour code. Wide range of applications, ideal for dispensing aggressive reagents, e.g. concentrated bases and acids such as H_3PO_4 , H_2SO_4 (except as HCl , HNO_3 and HF), saline solutions and a variety of organic solvents. Incl. performance certificate.

Included items:

Bottletop dispensers Dispensette® S, DE-M marked and supplied with performance certificate, telescope filling tube, recirculation valve (optional), mounting tool and adapters made of PP.

Volume	Grad.	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
ml	ml				
0.1 - 1	0.02	0.6	0.2	1	9.284 380
0.5 - 5	0.10	0.5	0.1	1	9.284 384
1 - 10	0.20	0.5	0.1	1	9.284 386
2.5 - 25	0.50	0.5	0.1	1	9.284 388
5 - 50	1.00	0.5	0.1	1	9.284 390
10 - 100	1.00	0.5	0.1	1	9.284 392

REAGENT RESERVOIRS, PS



White. Non-sterile. Graduated inside walls. Very stable because of thicker walls. Useful spouts for a safe fluid transfer. Bottom with a narrow trough to aid full sample recovery.

Capacity	Dimensions W x H x D mm	PK	Cat. No.
55	140 x 24 x 61	100	7.695 725
100	143 x 32 x 83	100	7.695 726

SINGLE CHANNEL MICROLITER PIPETTES, TRANSFERPETTE® S, VARIABLE



Volume range from 0.1 µl to 10000 µl.

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

Capacity µl	Accuracy max. vol. (± R%)	Precision max. vol. (≤ CV%)	PK	Cat. No.
0.1 ... 1	2	1.2	1	9.280 140
0.1 ... 2.5	1.4	0.7	1	9.280 141
0.5 ... 10	1.0	0.5	1	9.280 142
2 ... 20	0.8	0.4	1	9.280 143
5 ... 50	0.8	0.3	1	9.280 144
10 ... 100	0.6	0.2	1	9.280 145
20 ... 200	0.6	0.2	1	9.280 146
100 ... 1000	0.6	0.2	1	9.280 147
500 ... 5000	0.6	0.2	1	9.280 148
1000 ... 10000	0.6	0.2	1	9.280 149

FILTER TIPS, RACKED IN TIPBOX, STERILE, BIO-CERT®, PP



With a hinged lid/push-on lid. Simply rotate 180° to change the closure method. Usable with a partially loaded multichannel pipette. Two different sizes. Stackable and repeatedly autoclavable at 121 °C (2 bar), acc. DIN EN 285. 10 boxes of 96.

Capacity µl	PK	Cat. No.
0.5 - 10	960	9.409 724
5 - 100	960	9.409 727
50 - 1000	960	9.409 729

MACROPIPETTE CONTROLLERS

ISOLAB
Laborgeräte GmbH



The handwheel allows precise suction of the liquid into the pipette with one hand.

For	PK	Cat. No.
Pipette volume up to 2 ml	1	4.008 322
Pipette volume up to 10 ml	1	4.008 323
Pipette volume up to 25 ml	1	4.008 324

PASTEUR PIPETTES, SODA-LIME-GLASS

BRAND



ISO 7712. Long drawn-out capillary tip. Suction end with constriction for a cotton plug.

Nominal capacity	Length	PK	Cat. No.
ml	mm		
1.5	145	1000	4.688 084
1.5	270	1000	4.665 820
1.5	310	1000	4.665 821

PIPETTE TEATS

DEUTSCH & NEUMANN



Natural rubber (NR)/Latex or Silicone (VMQ)

Capacity	Colour	Material	PK	Cat. No.
ml				
2	red	NR/Latex	100	4.661 160
2	transparent/white	VMQ	10	9.072 682

PIPETTE CONTROLLER

LABSOLUTE



Pipetting made easy - the wireless LABSOLUTE® Pipette assistant ensures comfortable working with glass and plastic pipettes (0.1 - 100 ml).

- Effortless pipetting thanks to the ergonomic grip and smooth-running buttons
- Simple operation with one hand
- High working speed: a 25 ml pipette is filled in less than four seconds
- Extremely quiet and powerful motor with two speed settings
- Dispensing without motor, using gravity via "G" setting
- The charging device prevents overloading or heating of the battery
- Exchangeable membrane filters protect the device mechanism against contamination
- Differently coloured autoclavable cones allow customization

The supplied package includes charger, batteries, desktop stand, wall mount bracket and two spare membrane filters (PTFE 0.2 µm, PTFE 0.45 µm). You will also receive three differently coloured pipette holder cones (blue, green and orange).

Volume range:	0,1 to 100 ml
Power supply:	2x 1,2 V/1.600 mAh NiMH Akkus
Battery life:	8 hours of continuous use
Battery charging time:	2 - 3 hours

Description	PK	Cat. No.
Pipette controller with accessories	1	7.696 030

GRADUATED PIPETTES, CLASS AS, TYPE 3, AMBER GRADUATION

LABSOLUTE



DIN EN ISO 835. Made from soda-lime glass. Type 3. With batch identification. Calibrated to "Ex" (+5 seconds). Class AS. Labelling in brown colour. A batch-specific certificate of conformity is available on request.

Capacity	Length	Colour code	Graduation	PK	Cat. No.
ml	mm		ml		
1	360	Yellow	0.01	6	7.691 050
2	360	Black	0.02	6	7.691 051
5	360	Red	0.05	6	7.691 052
10	360	Orange	0.10	6	7.691 053
20	450	Yellow stripes	0.10	3	7.691 054
25	450	White	0.10	3	7.691 055
50	450	Black	0.20	3	7.691 056
Length ±10 mm					

THREE NECK ROUND BOTTOM FLASKS, SIDE NECKS 20°, BOROSILICATE GLASS 3.3



DIN 12392. Durable volume scale.

Capacity	Centre neck	Side neck	Flask Ø	Height	PK	Cat. No.
ml	NS	NS	mm	mm		
50	29/32	14/23	51	90	1	7.690 140
100	29/32	14/23	64	105	1	7.690 141
250	29/32	14/23	85	140	1	7.690 142
500	29/32	14/23	105	163	1	7.690 143
1000	29/32	14/23	131	200	1	7.690 144
2000	29/32	14/23	166	240	1	7.690 145

THREE NECK ROUND BOTTOM FLASKS, SIDE NECKS PARALLEL, BOROSILICATE GLASS 3.3



DIN 12394. Durable volume scale.

Capacity	Centre neck	Side neck	Flask Ø	Height	PK	Cat. No.
ml	NS	NS	mm	mm		
250	29/32	29/32	85	140	1	7.690 170
500	29/32	29/32	105	163	1	7.690 171
1000	29/32	29/32	131	200	1	7.690 172
2000	29/32	29/32	165	240	1	7.690 173
3000	29/32	29/32	185	260	1	7.690 174
5000	29/32	29/32	223	305	1	7.690 175

TWO NECK ROUND BOTTOM FLASKS, SIDE NECK 20°, BOROSILICATE GLASS 3.3



DIN 12394. Durable volume scale.

Capacity	Centre neck	Side neck	Flask Ø	Height	PK	Cat. No.
ml	NS	NS	mm	mm		
25	14/23	14/23	41	85	1	7.690 130
50	14/23	14/23	51	90	1	7.690 131
100	14/23	14/23	64	105	1	7.690 132
100	29/32	14/23	64	105	1	7.690 133
250	29/32	14/23	85	140	1	7.690 134
500	29/32	14/23	105	163	1	7.690 135
1000	29/32	14/23	131	200	1	7.690 136

LLG-STOPPERS, WITH TURN-OVER FLANGE



These stoppers guarantee perfect sealing even with poorly finished rims on glass or plastic bottles. The top of the stopper has a septum which can be punctured by a hypodermic needle. Very secure fit prevents accidental opening of the flask.

Joint size (NS)	Material	PK	Cat. No.
14	Rubber septum	10	4.715 161
19	Rubber septum	10	4.715 162
24	Rubber septum	10	4.715 163
29	Rubber septum	10	4.715 164
14	Silicone septum	10	4.715 165
19	Silicone septum	10	4.715 166
24	Silicone septum	10	4.715 167
29	Silicone septum	10	4.715 168

ADAPTER FOR THERMOMETER, GL45, BOROSILICATE GLASS 3.3



Manufactured from borosilicate glass 3.3 according to DIN 12257 standard, ideal to use for thermometers with Ø 6 - 8 mm. Screw joint provides easy depth adjustment of thermometer. Seal material: NBR.

Cone	PK	Cat. No.
NS		
14/23	1	4.008 360
29/32	1	6.244 589

ANALYTICAL
VOLUMETRIC SOLUTIONS

Suitable for manual and automatic titrations.
Tested acc. to ISO17025. Contents: 1000 ml.

Type	PK	Cat. No.
EDTA 0.01 M (0.02 N)	1	4.011 461
EDTA 0.1 M (0.2 N)	1	4.011 462
Hydrochloric Acid 0.05 M (0.05 N)	1	4.011 493
Iodine 0.01M (0.02N)	1	4.696 337
Iodine 0.05 M (0.1 N)	1	4.011 501
Sodium Hydroxide 0.01 M (0.01 N)	1	4.011 632
Sodium Hydroxide 0.05 M (0.05 N)	1	4.011 637
Sodium Hydroxide 0.1 M (0.1 N)	1	6.243 899
Sulphuric acid 0.005M (0.01N)	1	4.696 388
Sulphuric Acid 0.01 M (0.02 N)	1	6.227 710
Sulphuric Acid 0.05 M (0.1 N)	1	4.011 679
Sodium Thiosulphate 0.01 M (0.01 N)	1	4.011 658
Sodium Thiosulphate 0.1 M (0.1 N)	1	6.235 620
Silver nitrate 0.01M (0.01N)	1	4.696 362
Oxalic Acid 0.05 M (0.1 N)	1	6.251 706

TITRATION INDICATORS



Indicator solutions for endpoint determination in the performance of titrations.

Type	Capacity ml	PK	Cat. No.
Bromocresol purple, 1% (w/v)	500	1	4.684 913
Bromophenol blue, 0.1% (w/v)	500	1	4.684 908
Cresol red indicator 0.04% (w/v)	500	1	4.684 916
Methylene blue, 0.05%	250	1	4.684 918
Malachite green indicator 0.05% (w/v)	500	1	4.696 412
Phenol red indicator 0.5% (w/v)	500	1	4.696 415
Alizarin red solution	125	1	4.684 906

BURETTES, STRAIGHT STOPCOCK,
CLASS AS

Made of borosilicate glass 3.3. Acc. to DIN EN ISO 385.
With glass plug or PTFE needle valve. Class AS.
Calibrated to "Ex". Blue graduation and inscription. With Schellbach stripe.

Capacity ml	Grad. ml	Tolerance ± ml	Stopcock with	PK	Cat. No.
10	0.02	0.02	Glass key	1	7.691 144
25	0.05	0.05	Glass key	1	7.691 145
50	0.1	0.10	Glass key	1	7.691 146
10	0.02	0.02	PTFE spindle	1	7.691 147
25	0.05	0.03	PTFE spindle	1	7.691 148
50	0.1	0.05	PTFE spindle	1	7.691 149

MOTOR-DRIVEN PISTON BURETTE
TITRONIC® 300

SI Analytics



Motor-driven piston burette with 20 or 50 ml dosing unit. For manual titrations and highly precise dosing tasks. The TITRONIC® 300 can be completely controlled from a PC via the USB- or RS-232-interface. Up to 16 burettes can be connected to one another via the RS232 interface according to the daisy chain principle.

T 300/20 M1: Basic unit without magnetic stirrer with ready to use assembled 20 ml dosing unit TZ 3130 with hoses, fittings and titration tip, controller TZ 3880, titration clamp Z 305, stand rod TZ 1748 and power supply 100-240 V

T 300/50 M1: as T 300/20 M1, only with ready to use assembled 50 ml dosing unit TZ 3160

T 300/20 M2: as T 300/20 M1, additionally with magnetic stirrer TM 50

T 300/50 M2: as T 300/20 M2, only with ready to use assembled 50 ml dosing unit TZ 3160

Interfaces:

Keyboard connection:

Display:

Volume indicator:

Display resolution:

Dosing units:

Dispensing accuracy:

Supply requirements:

Conformity:

USB A and B, 2x RS 232

The unit is operated using the keys on the device itself, the controller TZ 3880 and optional PC-keyboard (USB)

graphics-capable TFT display

000.005 to 9999.999 ml

0.005

20 ml or 50 ml dosing unit, interchangeable

0.15% system measurement deviation, 0.05% accidental measurement deviation determined in accordance with EN ISO 8665, Part 3

230 V, 50/60 Hz

ISO 8665, Part 6

Type	Burette attachment ml	PK	Cat. No.
T 300/20 M1	20	1	9.863 180
T 300/50 M1	50	1	9.863 181
T 300/20 M2	20	1	9.863 182
T 300/50 M2	50	1	9.863 183

TOP-ALARM,
LOCAL ALARM WITH
SIREN AND STROBE LIGHT



New in assortment

TOP-ALARM is a local, manually triggered alarm with a siren and flashing light. It is powered independently by a 9 V alkaline battery (included). The battery life is approximately one year. Includes battery charge level monitoring.

- High-visibility red LED flashing light
- Very loud siren at approx. 100 dB at a distance of 1 meter
- Connectable 13 up to 20 devices can be connected using a cable
- Independent operation thanks to power supply from 9 V block battery
- Includes battery charge level monitoring
- Weather-resistant and stable design in red plastic
- Illuminated trigger button in alarm mode
- Strobe light: 1 Hz, red
- Protection class: IP55
- Temperature range: -10 °C to +60 °C

External dimensions (W x D x H) mm	PK	Cat. No.
160 x 75 x 260	1	6.495 354

LLG-DISPOSABLE PROTECTIVE
VISORS



- Transparent visor made of acetate
- With anti-fog coating
- Head holder made of TPU-foam with elastic
- Ideal as a disposable protection, for example, for visitors
- Can be worn over prescription glasses and protective masks
- Weight: 22 g

Description	PK	Cat. No.
LLG-Disposable Protective Visors	20	6.284 812

DISPENSER VARIOMAT PRO
STANDARD



Plastic dispenser for PGP's 1000 ml and 2000 ml collapsible bottles.

- Dispenser made of plastic, white or black cover, grey push button
- Simple operation and filling
- Completely hygienic system as there is no contact between product and dispenser
- Sturdy design
- Dispensing amount adjustable
- Optionally lockable

External dimensions (W x D x H) mm	PK	Cat. No.
124 x 134 x 295	1	6.495 056

CLEANSING LOTION ECOSAN®



Neutral cleansing syndet, also suitable for the food industry. For use with the Variomat PRO Standard dispenser.

- Transparent skin wash
- Colourant-free
- Soap- and alkali-free
- Skin neutral pH value
- Fragrance-free
- HACCP-compliant

Description	PK	Cat. No.
1-litre Vario bottle	6	6.495 623
2-litre Vario bottle	6	6.495 622

LLG GLOVE DISPENSER, COATED WIRE



Nylon-coated glove dispenser, including wall mounting materials.

- For 3 boxes, can be filled from above or from the front
- For 1 box, can be filled from the side

No. of boxes	Filling	PK	Cat. No.
1	from the side	1	4.711 548
3	from above	1	4.711 539
3	from the front	1	4.711 540

EYE WASH BOTTLE, 0.9% NaCl, STERILE



- Choice of 0.2 litre (washing time approx. 2 minutes) or 0.5 litre (washing time approx. 5 minutes) bottles
- Duo wash bottle for both eyes 1000 ml (washing time approx. 5 minutes)
- Ergonomic eye cup - keeps the eyes open during application
- Saline solution (0.9%), conforming to the natural salinity of the eye
- According to DIN EN 15154-4

Description	PK	Cat. No.
Eye wash bottle 0.9% NaCl, 200 ml	1	9.733 794
Spare eyewash bottle, 0.9% NaCl, 500 ml	1	9.733 793
Eye wash bottle DUO 0.9% NaCl, 1000 ml	1	6.240 397

DISPOSABLE GLOVES, NITRILE PROTECTIVE, POWDER-FREE

EN ISO 374-1 Type B EN ISO 374-5 EN 420



The powder-free, blue disposable LABSOLUTE® gloves made from nitrile are the best extension to the LABSOLUTE® Sensitive gloves for a higher protection level. Silicone free LABSOLUTE® Protective gloves with a wall thickness (double) of 0.26 mm are textured on the outside and correspond to PSA category III for complex risks as well as the standards EN 420, EN 374 and HACCP for the contact with food.

- Delivered in handy dispenser boxes of 100 pieces (XS, S, M, L) or 90 pieces (XL)
- Free from phthalates, softeners and allergenic latex proteins
- Storage life: 3 years
- Can be used on the left or on the right hand

Size	PK	Cat. No.
S	100	7.696 906
M	100	7.696 907
L	100	7.696 908
XL	90	7.696 909

SAFETY SPECTACLES LITE



The sporty LABSOLUTE® Lite safety spectacles weigh only 23 g and, thanks to their contoured lens, provide an ergonomic fit for both narrow and broad faces.

- soft forehead padding for comfortable, pressure-free wear
- ergonomically shaped temples for a secure hold
- adjustable, soft nose pad for a non-slip, individually adaptable fit

Description	PK	Cat. No.
Safety Spectacles Lite	1	7.696 004

CLEANROOM GLOVES ADVANTECH529, NITRILE

EN ISO 374-1 EN ISO 374-5 EN 421

Type B



Reinforced mechanical resistance for short-term operations. Manufacturing process guarantees a very low level of contaminants: rates of particles, powder-free, non-volatile residue, extractables; compatible with ISO 5 class (Class M3.5 for International system). 100% nitrile formula enables anti-static properties. Protection against accidental chemical splashes. Recommended for people who are sensitive to the proteins in natural latex. Thickness: 0.1 mm. Length: 300 mm. Packaging: 100 gloves/bag

- Cat. III

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421

Size	PK	Cat. No.
6	100	6.270 501
7	100	6.270 502
8	100	6.270 503
9	100	6.270 504
10	100	6.270 505

ADHESIVE MATS ASPURE, MDPE



Removes dust and dirt from shoe soles in different adhesive levels with a thickness of 35 µm per layer.

If the top adhesive mat is soiled, you can simply remove this layer and work directly on the next one of the stack. The number of remaining mats on the stack is indicated by the number in the corner. Medium adhesive, 30 layers. 1 carton with 10 mats, 30 layers.

Colour	Dimensions (D x W) mm	PK	Cat. No.
blue	450 x 900	10	4.659 087
blue	600 x 900	10	4.659 088
blue	600 x 1200	10	4.659 089
white	450 x 900	10	4.659 092
white	600 x 900	10	4.659 090
white	600 x 1200	10	4.659 091

ESD CLEAN ROOM CHAIR, WS 1720 RR ESD



- Backrest upholstered with leatherette, colour: black, (W top/bottom x H: 340/445 x 515 mm), backrest tilt: -10° to +8°
- Seat upholstered with leatherette, colour: black, (W back/front x D: 480/510 x 470 mm), seat tilt: -4° to +10°
- Column, chrome-plated, with column cover
- Five star base, polished with conductive dual castors
- Conductive chair for discharging static electricity electrical resistance: 6 x 10⁶ Ohm
- Certified for class-5 clean rooms acc. to DIN EN ISO 14644-1
- 5 years warranty

Seat height adjustment	PK	Cat. No.
mm		
510-630	1	4.661 513

CLEANROOM WIPES SONTARA® MICROPURE, POLYESTER/CELLULOSE



Sontara® MicroPure nonwovens (cellulose/polyester) have been specially developed for use in cleanrooms.

Type	Dimensions mm	Cleanroom Class	PK	Cat. No.
MicroPure 100	305 x 305	ISO 5 + 6	150	9.390 185
MicroPure 100	224 x 224	ISO 5 + 6	300	9.390 186
MicroPure AP	305 x 305	ISO 6 - 9	150	9.390 187
MicroPure AP	224 x 224	ISO 6 - 9	300	9.390 188
MicroPure SV	305 x 305	ISO 7 - 9	250	9.390 189
MicroPure SV	224 x 224	ISO 7 - 9	500	9.390 190



LLG-LAB STOOL

- Resistant to all of the usual disinfectants and chemicals.
- Seat upholstery made of artificial leather, 400 mm diameter (soft and comfortable, washable and antibacterial) or soft-touch PU foam, 350 mm diameter (extremely robust, washable and antibacterial) in black.
- Seat height adjustment by gas spring.
- With certificate "Tested Safety" (GS mark).
- 10-year warranty, Made in Germany.

Material	Description	PK	Cat. No.
PU foam	Castors	1	6.287 757
PU foam	Castors, foot ring	1	6.314 807
PU foam	Glides, foot ring	1	6.287 759
Artificial leather	Castors	1	6.287 758
Artificial leather	Glides, foot ring	1	6.287 760

LLG-LAB CHAIR

- Can be disinfected and is chemical-resistant:
Resistant to all standard disinfectants and chemicals.
- Seat and backrest upholstery available in either faux leather (soft and comfortable, washable and antibacterial) or soft-touch PU foam (extremely durable, washable and antibacterial) in black.
- Seat height continuously adjustable via gas spring.
- Backrest adjustable in height and angle.
- Bears the Tested Safety seal (GS mark).
- 10-year warranty, Made in Germany.

Material	Description	PK	Cat. No.
PU Foam	Castors	1	6.287 750
Artificial Leather	Castors	1	6.287 753
PU Foam	Stop and Go Castors, Foot Ring	1	6.287 752
Artificial Leather	Stop and Go Castors, Foot Ring	1	6.287 755

SAFETY STORAGE CABINETS S-CLASSIC-90 WD



Safe and approved storage of hazardous materials in workrooms

- Type proved according to EN 14470-1, fire resistance 90 minutes
- Compliant with DIN EN 16121/16122, GS certified, CE compliant
- Outer body made of sheet steel, colour light grey (RAL 7035), interior with chemical resistant surface
- Lockable doors with cylinder lock (integration into a locking system possible)
- Adjusting aids for compensation for uneven floor
- Ventilation connection (NW 75) in the cabinet ceiling
- Standard door open arrest system holds doors open, safe and convenient storage and removal
- Shelves, height adjustable (32 mm increments), load capacity 75 kg (evenly distributed load), bottom collecting sump with perforated insert as a first storage level. Capacity bottom collecting sump: 33 litre (model width 1200 mm), 22 litre (model width 600 mm)

Scope of delivery: S-CLASSIC-90 WD safety cabinet, model S90.196.120, including interior fittings

- (1) **6.282 015:** with 3 shelves, 1 perforated plate insert
- (2) **7.671 314:** with 4 shelves, 1 perforated plate insert, 1 drip tray (powder-coated sheet steel)
- (3) **7.940 686:** with 3 shelves, 1 floor drip tray (powder-coated sheet steel)
- (4) **6.323 841:** with 4 shelves, 1 floor drip tray (powder-coated sheet steel)

External dimensions (WxDxH):	1.196 x 616 x 1.968 mm
Internal dimensions (WxDxH):	1.050 x 524 x 1.742 mm

Type	PK	Cat. No.
(1) S-Classic-90 WD	1	6.282 015
(2) S-Classic-90 WD	1	7.671 314
(3) S-Classic-90 WD	1	7.940 686
(4) S-Classic-90 WD	1	6.323 841

VORTEXER LLG-uniTEXER MULTI



3 YEARS WARRANTY

The LLG-uniTEXER multi enables vortexing of different tubes without the need to use an additional adapter. The carrier head accommodates e.g. 1 x assay plate, 2 x 50 ml conical tubes, 2 x 15 ml conical tubes, 2 x 5 ml conical tubes, 4 x 1.5/2 ml microcentrifuge tubes, 6 x 0.5 ml and 24 x 0.2 ml microcentrifuge tubes.

Scope of supply: Vortexer, 1 x universal attachment, manual

Type of movement:	Orbital/vortex
Orbital diameter:	3.7 mm
Speed range:	0 ... 3000 rpm
Dimensions (W x D x H):	171 x 190 x 197 mm
Weight:	3.9 kg
Power supply:	220 ... 240 V, 50 ... 60 Hz

Type	Plug type	PK	Cat. No.
LLG-uniTEXER multi	EU	1	6.263 507
LLG-uniTEXER multi	UK	1	6.263 508

UNIVERSAL SHAKERS, SM 30



SM 30 A

Powerful shakers for large loads. Choice of orbital or reciprocating action models. Programmable controller with Touch-Display and advanced features for control devices.

Scope of supply: supplied with shaking rack and rubber mat. Attachments required, please order separately.

Speed range:	15 ... 300 rpm stepless, electronic adjustment, control devices in steps of 5
Orbit or travel:	26 mm (A + C models) 30, 46 or 50 mm (B models)
Max. loading:	30 kg
Timer:	0 ... 120 min/continuous, control devices programmable/continuous
Platform (W x D):	560 x 400 mm
Overall (W x D x H):	680 x 610 x 160 mm
Weight:	33 kg
Supply requirements:	230 V, 50/60 Hz

Type	Type of movement	PK	Cat. No.
SM 30 A	orbital	1	9.838 101
SM 30 B	reciprocating	1	9.838 111
SM 30 C	orbital, reciprocating	1	9.838 115

VORTEX MIXERS WIZARD/TX4 WITH IR SENSOR



WIZARD



TX4

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.

WIZARD: Compact, analogue vortex mixer
TX4: Digital vortex mixer with timer and LCD display

Scope of delivery: Vortex mixer with mixing head

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	Net weight	Plug type	PK	Cat. No.
	kg			
WIZARD	2.2	EU	1	4.666 536
WIZARD	2.7	UK	1	6.325 235
TX4	2.7	EU	1	4.666 537
TX4	2.7	UK	1	6.325 236

ACCESSORIES FOR UNIVERSAL SHAKER SM 30



Type	PK	Cat. No.
Rack system Combifix SM, Set A	1	9.838 201
Universal tray SM (without spring clamps)	1	9.838 210

OVERHEAD STIRRER RW 20 DIGITAL



IKA®

- 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 rpm to 2000 rpm
- hollow-shafted chuck for rotor shaft height adjustment

Stirring volume max. (H ₂ O):	20 L
Viscosity range:	up to 10000 mPas
Max. stirring shaft torque (at 100 rpm.):	150 Ncm
Chuck/Clamping range:	0.5 bis 10 mm
Dimensions (W x D x H)	88 x 212 x 294 mm
Weight:	3.1 kg
Protection class acc. to DIN EN 60529:	IP20
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	9.816 622
RW 20 digital	UK	1	6.227 717
RW 20 digital	CH	1	6.239 372

CRESCENT-SHAPED STIRRING ROTORS, PTFE



BOHLENDER

The semi-circular shape of the paddle is ideal for mixing in round-bottom flasks. The pivoting blade allows insertion into vessels with narrow necks and/or ground joints.

Ø agitator	Ø agitator shaft	To fit chuck diam.	Length	PK	Cat. No.
mm	mm	mm	mm		
65	8	6.5	350	1	9.197 121
90	8	6.5	350	1	6.086 868
90	8	6.5	450	1	9.197 122
90	10	8.0	350	1	9.197 127
90	10	8.0	450	1	9.197 124
90	10	8.0	600	1	9.197 125
125	8	14.0	800	1	6.523 357
125	16	14.0	800	1	9.197 126

MULTI-POSITION MAGNETIC STIRRERS RO 5/10/15 SERIES



RO 5



RO 15

Digital multi-point magnetic stirrer with 5, 10 or 15 synchronised stirring points. Thanks to noiseless coil drive technology, the speeds are identical at all stirring points. A removable transparent anti-slip film is included in the scope of delivery.

- Adjustable reverse operation
- Wear-free magnetic coils
- Error Code Display
- Easy operation with touch keypad
- Suitable for continuous operation
- Adjustable speed in increments of 10 rpm

Max. stirring quantity per stirring position (H ₂ O):	0.4 l
Distance between stirring places:	90 mm
Speed range:	0 to 1200 rpm
Speed display:	LED
Set-up plate material:	stainless steel 1.4301
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) mm	PK	Cat. No.
RO 5	5	120 x 570 x 60	1	9.720 208
RO 10	10	190 x 570 x 60	1	9.720 222
RO 15	15	280 x 570 x 60	1	9.720 226

MAGNETIC STIRRER ARE 5

velp®

Magnetic stirrer with heating and aluminium alloy heating plate ensures good temperature homogeneity and optimum heat transfer.

- Powerful, brushless motor
- Robust die-cast aluminium housing
- Analogue speed control
- Hot warning indicator when plate temperature exceeds 50 °C
- SpeedServo™ technology keeps speed constant when viscosity changes



Stirring volume max:	15 l
Speed range:	100 to 1.500 rpm
Dimensions (W x D x H):	160 x 270 x 85 mm
diam. Working area:	135 mm
Supply requirements:	230 V, 50/60 Hz

Type	PK	Cat. No.
ARE 5	1	4.688 307



ANALYTICAL BALANCE TYPE ACJ



The bestseller in analytical balances, now with a high-quality single-cell weighing system.

- With EC type approval, integrated RS-232 and USB data interface
- Automatic internal adjustment in the case of a change in temperature >2 °C or time-controlled every 4 hours
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function
- Large LCD, digit height 14 mm

A DAkkS calibration with a DAkkS calibration certificate is optionally available and must be specified when ordering the balances.

Overall dimensions (W x D x H):	210 x 340 x 325 mm
Dimensions weighing space (W x D x H):	174 x 162 x 227 mm
Permissible ambient temperature:	10 °C/30 °C
Net weight:	approx. 6 kg

Type	Capacity	Readability	PK	Cat. No.
	g	mg		
ACJ 100-4M	120	0.1	1	6.316 869
ACJ 200-4M	220	0.1	1	4.680 330

PRECISION BALANCE PNJ



PNJ 3000-2M

PNJ 600-3M

With robust tuning fork weighing system for fast display of the weight value, accurate dosing and high mechanical load capacity.

- Models with internal calibration function and guaranteed high accuracy, thus location-independent and ideal for mobile, legal-for-trade applications.
- Capacity indicator: an increasing luminous band shows the still available weighing range
- Large LCD display, digit height 16.5 mm
- Allowable ambient temperature range: 5 to 40 °C
- Universal power supply with adapters EU/UK/US

Type	Capacity	Readability	PK	Cat. No.
	g	g		
PNJ 600-3M	620	0.001	1	6.270 591
PNJ 3000-2M	3200	0.01	1	7.643 634

NEEDLE PRINTER YKT-01

- Large LCD display
- GLP-compliant printout
- Printout of date and time to document the weighings with a time stamp
- Specification of name, batch number and ID
- Display and printout of tare, gross and net weights
- Multiple weighing for storing and processing multiple consecutive weighings
- Recipe function
- Totalising function
- Statistical function

The printer is supplied without an interface cable.
Please order separately depending on the model of the scales.



Display type	Dimensions (W x D x H) mm	Plug type	PK	Cat. No.
LCD	114.6 x 188.2 x 86.6	EU/UK/CH/US/AUS	1	6.494 403

ANTIVIBRATION PLATES, GRANITE

KERN


The antivibration plates have been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result from precision and analytical balances. They are also suitable for vibration-free positioning of microscopes.

- Polished granite, positioned on absorbing rubber components
- Easy to clean

External dimensions (W x D x H)	Weight	PK	Cat. No.
mm	kg		
400 x 450 x 60	30	1	4.685 143
565 x 450 x 60	42	1	4.685 144

SAMPLE DISHES, ALUMINIUM

LABSOLUTE


- Made from high-grade aluminium
- Suitable for determining moisture content



Dimensions (Ø x H)	Description	PK	Cat. No.
mm			
90 x 7	Sample dish	80	7.696 269
100 x 7	Sample dish	80	7.696 246
100 x 7	Sample dish with rim	80	7.696 247

LLG WEIGHING SCOOPS, PORCELAIN

LLG
LABWARE


Length	PK	Cat. No.
mm		
37	1	9.115 350
53	1	6.241 255
64	1	9.115 351

WEIGHING PAPER MN 226

MN


Transparent, smooth. 40 g/m² paper.
Block of 100 sheets.

Width	Length	PK	Cat. No.
mm	mm		
90	115	100	9.058 975

BALANCE BRUSH



Consisting of one brush each size 2/6 mm,
size 4/9 mm and size 6/12 mm.

Type	PK	Cat. No.
Brush set	1	6.266 825

ULTRA PURE WATER SYSTEM OMNIAPURE XS^{BASIC}



Special Campaign set
including free replacement cartridges

stakpure



For ultra pure water type I.

Ultra pure water of the highest quality for analytical and life science applications in the laboratory. With the standard dispenser and monitoring unit OptiFill^{basic}, laboratory vessels can be filled conveniently and precisely. The recirculation function prevents the growth of biofilms.

- Compact design
- Can be used with deionised water
- Dispenser pivotable up to 170°
- Ergonomic, flexible dispenser and monitoring unit OptiFill^{basic} with graphic display
- Real-time display of all operating and performance parameters
- Setting possibilities for conductivity in MΩ x cm or μS/cm
- Password access
- 2 languages selectable: DE, EN
- Leakage sensor
- Integrated pressure reducer
- Automatic voltage adjustment

Applications:

OmniaPure xs^{basic}: AAS, IC, ICP, buffers and media preparation

OmniaPure xs^{basic} UV: Ultra trace analysis, ICP-MS, HPLC, TOC analysis

Scope of supply: Ultra pure water system, pre-treatment cartridge, ultra pure water cartridge, sterile filter capsule (0.2 μm)

Withdrawal capacity:	Up to 2 l/min
Resistance at 25 °C:	18.2 MΩ x cm
Conductivity at 25 °C:	0.055 μS/cm
Bacteria (with filter):	<0.01 KBE/ml
Particles (with filter):	<1/ml
Feed water conductivity at 25 °C:	<100 μS/cm

Type	PK	Cat. No.
OmniaPure xs ^{basic}	1	4.686 066
OmniaPure xs ^{basic} UV	1	4.686 067

WATER STILLS PURIDEST

LAUDA



The water stills Puridest produce high-purity, low-gas, germ-free and pyrogen-free distillate, e.g. for diluting reagents and samples. After a direct connection to the raw water and the power supply, ultrapure water can be drawn off directly. The glass water stills deliver water that is almost free of metal ions.

- Distillates with conductance values up to 1.6 μS/cm, comply with the DAB regulations and the provisions of international pharmacopoeias
- Without the use of consumables
- Maintenance needs are limited to simply cleaning contaminants from the still
- With LED indicators for operating status and cleaning requirements (PD 2 and PD 4 only with LED indicators for operating status)

Type	Output L / hr.	Water consumption approx. L / hr.	PK	Cat. No.
PD 4	4	40	1	9.910 681
PD 4 R	4	48	1	9.910 683
PD 8 R	8	72	1	9.910 684
PD 12 R	12	198	1	9.910 685

WATER, PRODUCED BY ULTRAPURE WATER PLANT

CHEMSOLUTE[®]



Produced by ion exchanger with downstream ultrapure water cartridge, UV torch and subsequent pressure filtration (0.2 μm). Equivalent 2x distilled.

- Conductivity during production max. 0.1 μS/cm
- Not tested for sterility

Capacity	Package	PK	Cat. No.
1 l	Plastic bottle	1	480.1000
5 l	Plastic canister	1	480.5000
10 l	Plastic canister	1	480.9010
20 l	Plastic canister	1	480.9020
25 l	Plastic canister	1	480.902
1000 l	IBC	1	480.91000
1000 l	Bag-in-Box	1	480.95100

MINI-DIAPHRAGM VACUUM PUMPS LABOPORT® N96, CHEMICALLY-RESISTANT



The Pump combines a high flow rate with a very compact design. Due to the manual rotational speed control, the pump is quiet, very energy efficient, and can be optimally adjusted in accordance with the application.

- Easy-to-clean surface
- Very small footprint
- Adjustable in flowrate due to manual rotational speed control
- PTFE-coated diaphragm for use with aggressive/corrosive gases and vapours

Ultimate vacuum (abs.):	<130 mbar
Operating pressure:	2.5 bar
Connectors for tube:	ID 6 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	PPS
Diaphragm:	PTFE coated
Valves:	FKM

Flow rate L / min.	Ultimate vacuum mbar (abs.)	Dimensions (W x D x H) mm	PK	Cat. No.
7	130	75 x 156 x 119	1	4.672 374

DIGITAL VACUUM GAUGE THERMOVAC TM 201



The vacuum gauge combines a piezoresistive sensor for high-pressure measurements with a heat conducting Pirani sensor for low-pressure measurements. It can measure both absolute pressure and relative pressure (-1060 to 340 mbar), thus supporting leak detection and pressure monitoring. The integrated data logger records measurements with a time stamp. Stored data can be easily transferred via USB-C or Bluetooth® LE and analysed with the optional VacuGraph™ software.

- LCD graphic display and intuitive menus facilitate operation
- Adjustable gas type correction factor
- Power supply: Li-battery is charged via the USB port

Type	Measuring range mbar	PK	Cat. No.
TM 201	0.00005 ... 1.200	1	4.714 985
Storage case	-	1	4.714 987

ROTARY VANE PUMPS RZ 6, SET VACUUBRAND®



RZ 6+FO+VS 16+VACUU-VIEW extended

The powerful rotary vane pumps are ideal for laboratory and process applications that require a very good ultimate vacuum at medium to increased gas flow rate. Typical applications are lyophilisation, fine vacuum distillation, and drying chambers.

- High flow rate even at vacuum levels approaching ultimate vacuum
- High water vapour tolerance due to efficient gas ballast
- Very good ultimate vacuum even with gas ballast
- Vacuum-tight at switch-off without suction nozzle valve
- Long oil change intervals due to large usable oil volume
- Easy maintenance due to telescopic design

Scope of supply: Rotary valve pump, exhaust filter FO, shut-off valve VS 16, operating instructions, optional VACCUVIEW extended vacuum gauge

Type	Plug type	PK	Cat. No.
RZ 6+FO+VS 16	EU	1	4.691 552
RZ 6+FO+VS 16	UK	1	4.691 553
RZ 6+FO+VS 16	CH	1	4.691 551
RZ 6+FO+VS 16+VACUU-VIEW extended	EU	1	4.691 560
RZ 6+FO+VS 16+VACUU-VIEW extended	CH	1	4.691 561

CONDENSATION TRAPS, BOROSILICATE 3.3, TWO-PIECE



Side connections with hose connectors.

Capacity ml	Cone	Socket	PK	Cat. No.
100	29	29	1	9.305 350
250	45	45	1	9.305 351



ROTARY EVAPORATOR HEI-VAP CORE



- Residual Heat Warning
- With Hand Lift
- Vertical Glass Set

Clear and intuitive, with direct access at all times to the basic parameters of rotation speed and heating bath temperature. Designed for integration into an existing vacuum system or for configuration with an optional vacuum controller.

- With a hand lift
- Clear digital display showing current values and a button to display the set values
- Direct access to rotation and heating bath via separate rotary push-buttons with LED activity indicator
- Value lock function to prevent accidental adjustment or overheating
- Residual heat warning at $>50^{\circ}\text{C}$
- Standby button stops all functions and, on Motorlift models, retracts the evaporator piston from the heating bath
- Thanks to an optional cable extension, the control unit can also be mounted outside enclosed fume cupboards

Scope of delivery: Diagonal condenser, Easy-Clip flask clamp, vapour feed-through, vent cap, heating bath, 1 l receiving flask, 1 l evaporating flask.

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
Power supply: 230 V



Type	Plug type	PK	Cat. No.
G1 Angled condenser	EU	1	4.666 085
G1 Angled condenser	UK	1	4.666 107
G1 Angled condenser	CH	1	4.666 127

EVERYTHING FROM ONE SOURCE

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