

LABORTOPS

MICROCENTRIFUGE 5425/5425R

- Refrigerated and non-refrigerated options
- Aerosol-tight Eppendorf QuickLock®
- Whisper-quiet



eppendorf

Further information
can be found on page 3.

General laboratory supply	2	Liquid Handling	18 - 19
Centrifuging	3	Glassware / Flasks	20
Microscopy / Optics	4	Titration	21
Spectroscopy	5	Personal protection	22 - 23
Genomics	6	Clean room	24
Ultrasonic cleaning	7	Laboratory furniture	25
Sample preparation	8 - 9	Stirring, shaking, mixing	26 - 27
Temperature control	10 - 11	Weighing	28 - 29
Time measurement	12	Water treatment	30
Temperature / Environmental measurement	13	Vacuum technology	31
Chromatography / NMR	14 - 15	Rotary evaporator	32
pH measurement / Conductivity measurement	16 - 17		

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

-15%

Nominal capacity ml	PK	Cat. No.	Price	Now
			EUR	EUR
100	1	4.693 738	27,40	23,29
250	1	4.693 740	29,00	24,65
500	1	4.693 742	34,40	29,24
1000	1	4.693 744	47,40	40,29

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

-25%

Dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
			EUR	EUR
280 x 137 x 375	1	7.618 375	50,60	37,95

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

-10%

For bottles ml	Colour	Height mm	Diam. mm	PK	Cat. No.	Price	Now
						EUR	EUR
1500	Red	165	114 mm	1	4.688 196	56,50	50,85
1500	Black	165	114 mm	1	4.688 197	56,50	50,85
1500	Blue	165	114 mm	1	4.688 198	56,50	50,85
1500	Green	165	114 mm	1	4.688 199	56,50	50,85
4500	Red	267	183 mm	1	4.688 192	84,80	76,32
4500	Black	267	183 mm	1	4.688 193	84,80	76,32
4500	Blue	267	183 mm	1	4.688 194	84,80	76,32
4500	Green	267	183 mm	1	4.688 195	84,80	76,32

LLG-Hand towels, 3-ply



Bright white, extra absorbent, completely unfolding, matching with most dispenser systems, economic use by high absorbency and comfortable size. Suitable for LLG-Dispenser for hand towels, Cat No 7.618 375.
20 Packs with 100 tissues.

-25%

Dimensions (D x W) mm	PK	Cat. No.	Price	Now
			EUR	EUR
220 x 420	20	6.266 568	94,00	70,50

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 × 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.	-12%	
					Price	Now
5425 *	100 ... 15.060	-	1	4.709 814	EUR 2.976,00	EUR 2.618,88
5425 R *	100 ... 15.060	+	1	6.495 820	EUR 6.054,00	EUR 5.327,52
5425 **	100 ... 15.060	-	1	4.709 816	EUR 2.976,00	EUR 2.618,88
5425 R **	100 ... 15.060	+	1	6.495 821	EUR 6.054,00	EUR 5.327,52

* 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.	-12%	
				Price	Now
0.5	Eppendorf Quality	500	4.712 691	EUR 53,50	EUR 47,08
1.5	Eppendorf Quality	1000	4.712 694	EUR 54,10	EUR 47,61
2.0	Eppendorf Quality	1000	4.712 695	EUR 73,60	EUR 64,77
0.5	PCR clean *	500	4.712 690	EUR 50,30	EUR 52,18
1.5	PCR clean *	1000	4.712 692	EUR 50,30	EUR 52,18
2.0	PCR clean *	1000	4.712 693	EUR 80,60	EUR 70,93

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

Rack for centrifuge tubes, PP



5 × 5 sample positions. Suitable for 15 ml or 50 ml conical centrifuge tubes. Easy sample identification via alphanumeric embossing.

For tubes ml	Dimensions (W x D x H) mm	PK	Cat. No.	-25%	
				Price	Now
15	150 x 120 x 32	1	6.267 412	EUR 47,10	EUR 12,83
50	230 x 190 x 35	1	6.267 413	EUR 45,10	EUR 11,33

Light Microscopes Educational-Line OBE 132

KERN



- 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.	Price	Now
OBE 132	1	4.670 983	EUR 640,00	EUR 544,00

-15%

Cover slips, square



epredia
Enhancing precision
cancer diagnostics

Made of D263 M borosilicate glass.
Accurate cutting free of flaws and blisters.

Dimensions (D x W) mm	Thickness mm	PK	Cat. No.	Price	Now
20 x 20	0.13-0.16	5 x 100	9.161 019	EUR 20,25	EUR 17,21
22 x 22	0.13-0.16	5 x 100	9.161 023	EUR 22,25	EUR 18,91
24 x 24	0.13-0.16	5 x 100	9.161 025	EUR 25,25	EUR 21,46

-15%

LLG-Staining plates, porcelain

With indentations.
Square, white, glazed.



LLG
LABWARE

Int. bore diam. mm	Cavity depth mm	Dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
25	4	81 x 112 x 25	1	6.232 575	EUR 19,90	EUR 17,91
17	2	91 x 115 x 17	1	6.265 001	EUR 22,30	EUR 20,07

-10%

Digital refractometer RFM732-M/RFM742-M

BS Bellingham + Stanley®
a xylem brand



- 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

-15%

Type	Accuracy	PK	Cat. No.	Price	Now
RFM732-M	±0.1 °Brix ±0.0001 RI	1	4.694 484	EUR 6.500,00	EUR 5.525,00
RFM742-M	±0.04 °Brix ±0.00005 RI	1	6.317 586	EUR 6.950,00	EUR 5.907,50

Microscope slides



epredia
Enhancing precision
cancer diagnostics

According to ISO 8037/1. Prewashed and polished.
Extra white. Size 76 x 26 x 1 mm.

-15%

Type	Edge finish	PK	Cat. No.	Price	Now
Without frosted end	Cut	5 x 50	9.161 110	EUR 17,75	EUR 15,09
With frosted end	Cut	5 x 50	9.161 145	EUR 27,25	EUR 23,16
Without frosted end	Ground 45°	5 x 50	9.161 120	EUR 27,75	EUR 23,59
With frosted end	Ground 45°	5 x 50	6.050 042	EUR 34,50	EUR 29,33
Without frosted end	Ground 90°	5 x 50	6.229 386	EUR 26,25	EUR 22,31
With frosted end	Ground 90°	5 x 50	6.050 000	EUR 31,75	EUR 26,99

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.

-10%

Type	Path length	Material	PK	Cat. No.	Price	Now
	mm				EUR	EUR
W600/OG/10	10	optical glass	1	6.207 120	62,70	56,43
W600/OG/1/2"	12.7	optical glass	1	9.947 341	65,00	58,50
W600/OG/20	20	optical glass	1	6.522 394	72,00	64,80
W600/OG/25	25	optical glass	1	6.241 234	72,00	64,80
W600/OG/1"	25.4	optical glass	1	9.947 342	72,00	64,80
W600/OG/33	33	optical glass	1	6.093 322	86,00	77,40
W600/OG/40	40	optical glass	1	6.289 894	86,00	77,40
W600/OG/50	50	optical glass	1	6.207 119	97,60	87,84
W600/OG/100	100	optical glass	1	6.235 055	181,20	163,08
W600/OG/5/4"	133.35	optical glass	1	9.947 343	134,70	121,23
W600/B/10	10	Borosilicate glass 3.3	1	6.241 927	79,00	71,10
W600/B/33	33	Borosilicate glass 3.3	1	6.086 921	111,50	100,35
W600/B/1"	12.7	Borosilicate glass 3.3	1	9.947 344	88,30	79,47
W600/B/40	40	Borosilicate glass 3.3	1	6.523 826	116,20	104,58
W600/B/100	100	Borosilicate glass 3.3	1	6.253 940	232,20	208,98
W600/B/5/4"	133.35	Borosilicate glass 3.3	1	9.947 345	174,20	156,78

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

-15%

Description	Volume	Material	PK	Cat. No.	Price	Now
	ml				EUR	EUR
Macro	2.5 to 4.5	PMMA	100	9.406 111	14,90	12,67
Semi-micro	1.5 to 3.0	PMMA	100	9.406 115	15,60	13,26
Macro	2.5 to 4.5	PS	100	9.406 110	14,10	11,99
Semi-micro	1.5 to 3.0	PS	100	9.406 114	14,70	12,50

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

-5%

Path length	PK	Cat. No.	Price	Now
mm			EUR	EUR
0.1 ... 152.4	1	4.716 033	10.100,80	9.595,76

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
- Verified windows to protect against scratches

-15%

Description	Capacity	PK	Cat. No.	Price	Now
	µl			EUR	EUR
UV micro cuvette	70 - 850	100	9.406 120	30,20	25,67
UV macro cuvette	2.5 ml - 4.5 ml	100	9.406 119	36,60	31,11
UV semi-micro cuvette	1.5 - 3.0 ml	100	9.406 118	40,30	34,26

Thermocycler Alpha Cycl



The Alpha Cycl 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 Cycl 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.	Price	Now
					EUR	EUR
AC196	1 x 96 well block	430 x 260 x 200	1	4.658 855	5.098,50	4.843,58
AC1384	1 x 384 well block	430 x 260 x 200	1	4.658 856	5.098,50	4.843,58

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.	Price	Now
			EUR	EUR
PCR Mini cooler	2	6.228 848	131,40	111,69

LLG-PCR tubes, PP, strips of 8 with separate cap strips



LLG-PCR tubes with flat, separate cap strips are suitable for standard PCR thermal cyclers. Autoclavable as well as RNase-, DNase-, and pyrogen-free.

Volume	PK	Cat. No.	Price	Now
ml			EUR	EUR
0.2	120	4.704 899	111,00	72,15

LLG-PCR tubes, PP, strips of 8 with attached flat caps



LLG-PCR tubes with flat caps are suitable for standard PCR thermal cyclers. Autoclavable as well as RNase-, DNase-, and pyrogen-free.

Volume	PK	Cat. No.	Price	Now
ml			EUR	EUR
0.2	120	4.704 898	129,00	83,85

LLG PCR tubes, PP, with attached flat cap



LLG PCR tubes with flat caps are suitable for standard PCR/qPCR thermocyclers. Autoclavable, RNase-, DNase- and pyrogen-free.

Volume	PK	Cat. No.	Price	Now
ml			EUR	EUR
0.2	500	4.704 897	92,00	20,80

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.	-15%	
				Price	Now
				EUR	EUR
RK 31 H	0.9	1	6.200 370	456,00	387,60
RK 31	0.9	1	9.877 021	388,00	329,80
RK 52	1.8	1	9.877 052	675,00	573,75
RK 52 H	1.8	1	9.877 051	860,00	731,00
RK 100	3.0	1	9.877 100	747,00	634,95
RK 100 H	3.0	1	9.877 101	907,00	770,95
RK 102 H	3.0	1	9.877 103	1.293,00	1.099,05
RK 103 H	4.0	1	9.877 114	1.319,00	1.121,15
RK 156 BH	9.0	1	9.877 155	1.818,00	1.545,30
RK 255 H	5.5	1	9.877 256	1.484,00	1.261,40
RK 510	9.7	1	9.877 510	1.351,00	1.148,35
RK 510 H	9.7	1	9.877 511	1.665,00	1.415,25
RK 1028 H	28.0	1	9.877 529	3.067,00	2.606,95

Lids for Sonorex ultrasonic baths



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

Type	For bath type	PK	Cat. No.	-15%	
				Price	Now
				EUR	EUR
D 08	RK 31 / 31 H	1	9.877 597	26,00	22,10
D 52	RK 52 / 52 H	1	9.877 601	48,00	40,80
D 100	RK 100 H / 102 H / 103 H	1	9.877 603	48,00	40,80
D 510	RK 510 / 510 H	1	9.877 610	69,00	58,65
D 1028	RK 1028 H	1	9.877 607	92,00	78,20

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.	-15%	
				Price	Now
				EUR	EUR
K 1 C	RK 52 / 52 H	1	9.877 631	62,00	52,70
K 3 C	RK 100 / 100 H / 102 H	1	9.877 633	74,00	62,90
K 08	RK 31 / 31 H	1	9.877 630	48,00	40,80
K 10	RK 510 / 510 H	1	9.877 697	209,00	177,65
K 28	RK 1028 H	1	9.877 698	301,00	255,85

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.	-10%	
					Price	Now
ml	± ml				EUR	EUR
25	0.08	10/19	1	9.276 590	6,95	6,17
50	0.12	12/21	1	9.276 591	7,70	6,93
100	0.20	14/23	1	9.276 592	8,05	7,25
250	0.30	14/23	1	9.276 593	12,50	11,25
500	0.50	19/26	1	9.276 594	14,10	12,69
1000	0.80	24/29	1	9.276 595	16,60	14,94

SAMPLE PREPARATION

Batch mills

Tube Mill control/Tube Mill 100 control

IKA®



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

-15%

Type	Max. Feed quantity/ Flow rate	PK	Cat. No.	Price	Now
	ml			EUR	EUR
Tube Mill control	40	1	9.737 790	2.561,00	2.176,85
Tube Mill 100 control	100	1	7.644 727	2.777,00	2.360,45

Accessories for batch mill Tube Mill control/Tube Mill 100 control

-5%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Disposable grinding chamber, 40 ml	10	9.737 791	99,50	94,53
Disposable grinding chamber, 40 ml, big pack	100	6.260 495	830,00	788,50
Disposable grinding chamber, 100 ml *	10	6.285 802	113,00	107,35
Disposable grinding chamber, 100 ml, big pack *	50	7.644 728	493,00	468,35
Grinding chamber, multi use, 40 ml	1	7.639 994	291,00	276,45

* only for Tube Mill 100 control

Laboratory mixer, BagMixer® 400

interscience



For sample preparation with adjustable paddle system



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.

-15%

Type	Volume	Dimensions (W x D x H)	PK	Cat. No.	Price	Now
	ml	mm			EUR	EUR
400 P	50 ... 400	260 x 390 x 290	1	6.204 551	2.749,00	2.336,65
400 W	50 ... 400	260 x 390 x 290	1	6.224 287	3.607,50	3.066,38
400 CC	50 ... 400	260 x 420 x 265	1	9.570 098	5.186,00	4.408,10

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

-20%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
BagLight® PolySilk 100	plain bag, sleeve 25	500	9.570 075	63,50	50,80
BagOpen® 400	bag opener	1	9.570 084	125,80	100,64
BagLight® PolySilk 3500	plain bag, sleeve 25	500	9.570 077	216,00	172,80
BagPage® + 400	full-size filter bag, sleeve 25	500	9.570 081	238,10	190,48
BagFilter® P 400	side filter bag, sleeve 25	500	9.570 078	238,10	190,48

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.	-10%	
						Price	Now
						EUR	EUR
LaboPlast® Bio	2.5	127	-	100	6.265 059	49,90	44,91
LaboPlast® Bio	10	170	-	100	6.265 060	53,20	47,88
SteriPlast® Bio	2.5	127	+	100	6.265 053	55,50	49,95
SteriPlast® Bio	10	170	+	100	6.265 054	59,00	53,10

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%	
					Price	Now
					EUR	EUR
10	25	45	1	6.226 226	71,50	64,35
50	38	70	1	7.622 382	121,10	108,99
100	50	100	1	6.226 227	164,70	148,23
500	95	140	1	7.911 019	165,30	148,77
750	95	210	1	6.226 228	170,20	153,18
1000	110	235	1	6.226 229	188,40	169,56
1250	125	195	1	7.900 430	194,30	174,87
1700	135	230	1	7.900 429	201,80	181,62
2500	185	215	1	7.636 598	240,80	216,72

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.	-10%	
						Price	Now
						EUR	EUR
LaboPlast® Bio	25	141	-	10	6.265 055	21,70	19,53
LaboPlast® Bio	50	160	-	10	6.265 056	22,40	20,16
LaboPlast® Bio	100	205	-	10	6.265 057	23,10	20,79
LaboPlast® Bio	150	216	-	10	6.265 058	23,70	21,33
SteriPlast® Bio	25	141	+	10	6.265 049	24,10	21,69
SteriPlast® Bio	50	160	+	10	6.265 050	24,80	22,32
SteriPlast® Bio	100	205	+	10	6.265 051	25,60	23,04
SteriPlast® Bio	150	216	+	10	6.265 052	26,20	23,58

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.	Price
			EUR
0.032	1	6.269 664	263,00
0.045	1	6.269 663	184,00
0.063	1	6.267 645	148,00
0.075	1	4.670 668	144,00
0.09	1	6.269 661	144,00
0.100	1	6.318 216	144,00
0.2	1	6.285 175	144,00

TEMPERATURE CONTROL

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

-5%

Type	Capacity of the bath litres	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
					EUR	EUR
WBE02A12E	2	305 x 229 x 267	1	6.274 985	637,50	605,63
WBE05A12E	5	305 x 368 x 267	1	6.274 986	772,90	734,26
WBE10A12E	10	432 x 393 x 305	1	6.274 987	930,60	884,07
WBE20A12E	20	445 x 572 x 305	1	6.274 988	1.123,80	1.067,61
WBE28A12E	28	445 x 572 x 356	1	6.274 989	1.185,50	1.126,23

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.

-15%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Floating pellets	250	6.266 611	37,30	31,71

Thermostatic cabinets



- Internal power sockets
- Ideal for BSB measurements



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

-5%

Type	Capacity	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
					EUR	EUR
TC 135 S	135	600 x 600 x 850	1	9.699 142	2.203,20	2.093,04
TC 710 S	288	600 x 654 x 1684	1	6.492 794	3.158,00	3.000,10
TC 720 S	488	750 x 769 x 1684	1	6.492 795	3.896,80	3.701,96
TC 140 G *	140	600 x 600 x 850	1	9.699 146	2.542,40	2.415,28
TC 715 G *	288	600 x 654 x 1684	1	6.492 988	3.381,20	3.212,24

* 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

-10%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
ES-20/80	1	4.684 295	6.909,00	6.218,10

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.

-12%

Type	Tablet weight	Diam.	Height	PK	Cat. No.	Price	Now
	g	mm	mm			EUR	EUR
SnowPack® 50	50	50	30	1	9.253 006	274,60	241,65
SnowPack® 250	250	80	60	1	9.253 008	337,50	297,00

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 cryogens.
1 pair per pack.

-15%

Size	Description	PK	Cat. No.	Price	Now
				EUR	EUR
S (8)	wrist length	1	9.405 116	216,50	184,03
M (9)	wrist length	1	9.405 117	216,50	184,03
L (10)	wrist length	1	9.405 118	216,50	184,03
XL (11)	wrist length	1	9.405 119	225,50	191,68
S (8)	forearm length	1	9.405 120	222,50	189,13
M (9)	forearm length	1	9.005 446	222,50	189,13
L (10)	forearm length	1	9.005 447	222,50	189,13
XL (11)	forearm length	1	9.405 121	234,50	199,33

Freezer boxes B35-85, up to -85 °C



- 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.	Price
	Litres	mm			EUR
B 35-85	35	580 x 765 x 540	1	7.982 609	6.580,00
B 35-85 //logg	35	580 x 765 x 580	1	6.284 404	7.590,00

LLG-Timer pro



The LLG-Timer pro can be used simultaneously as real time clock and timer. The countdown timer also runs when time is visible.

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

Dimensions (W x H x D): 82 x 68 x 20.5 mm
 Weight (with battery): 82 g
 Power supply: 2 x AAA 1.5 V (not included)
 Warranty: 12 months

-20%

Type	PK	Cat. No.	Price	Now
LLG-timer pro	1	6.311 351	EUR 23,10	EUR 18,48

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

-15%

Type	PK	Cat. No.	Price	Now
Thermo-Timer	1	6.328 856	EUR 48,00	EUR 40,80

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

-10%

Type	PK	Cat. No.	Price	Now
Stopwatch	1	9.851 018	EUR 9,40	EUR 8,46

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

-15%

Type	PK	Cat. No.	Price	Now
Radio controlled wall clock	1	9.851 019	EUR 39,90	EUR 33,92

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.	Price	Now
MONSUN	1	6.523 857	EUR 41,00	EUR 34,85

-15%

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.	Price	Now
Short version	1	9.851 028	EUR 20,00	EUR 17,00

-15%

Laboratory Thermometer 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.	Price	Now
TFX 410	with assigned probe	1	6.206 350	EUR 244,00	EUR 249,90
TFX 410-1	without probe	1	6.207 171	EUR 280,00	EUR 238,00
TFX 410-1 + TPX 400	with probe	1	6.205 686	EUR 370,00	EUR 314,50

-15%

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.	Price	Now
testo 608-H1	1	9.726 964	EUR 93,00	EUR 88,35

-5%

Gas chromatography flow meter GF500



A compact, digital measuring device for simple, accurate and reproducible measurement of flow rates in gas chromatographs. Suitable for the carrier gases air, hydrogen, nitrogen, helium, carbon dioxide, argon and argon/methane. With pressure and temperature compensation. Suitable for columns with diameters of 100, 180, 200, 250, 320, 450, 530 and 750 µm.

- Measurement of flow rate, linear velocity and split ratio
- 25 point calibration, traceable to National Standards
- Rechargeable battery

Scope of supply: Flow meter with case, tubings, tubing adapter fittings, tubing clips, tie-wraps, universal charger with USB connector, operation manual, calibration certificate.

Range: 0...500 ml/min. (0...300 ml CO₂)
 Accuracy: 0.4 ml/min./±2.5%
 Resolution: 0.1 ml/min.
 Operating temperature: 15...35 °C, calibrated at 21±2 °C
 Inlet pressure: max. 175 kPa
 Dimensions: 68 x 30 x 130 mm

-5%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
GF500-Set	1	4.661 928	1.278,50	1.214,58

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



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

-20%

Description	Cover type	PK	Cat. No.	Price	Now
				EUR	EUR
clear	Short Thread Cap, blue, hole, Silicon white / PTFE red	100	9.003 560	42,70	34,16
clear	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	7.621 765	57,10	45,68
clear	Short Thread Cap, transparent, hole, Silicon white / PTFE red	100	9.003 561	38,20	30,56
clear *	Short Thread Cap, blue, hole, Silicon white / PTFE blue, slitted	100	9.003 562	57,50	46,00
clear *	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	7.970 892	45,50	36,40
amber *	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE red	100	6.266 871	45,20	36,16

+ with labelling field

Eluent SafetyCaps, GL45



Suitable for solvent extraction. The integrated air valve blocks hazardous solvent vapours and filters the incoming air via a PTFE membrane.

- With timestrip sticker
- Closures and fittings made of PP
- Body made of PTFE

Description	PK	Cat. No.	Price
			EUR
with 2 PP fittings (3.2 mm OD)	1	4.684 217	54,20
with 3 PP-Fittings (3.2 mm AD)	1	4.684 218	56,40
with 1 PP-Fitting (3.2 mm AD)	1	4.684 219	47,40

Air valves, PP



For all SafetyCaps with a 1/4" 28G UNF threaded connection. Features a 1 µm PTFE/PP membrane and a silicone check valve. Includes a clip-on replacement indicator. Service life of 6 months.

-10%

Diam.	PK	Cat. No.	Price	Now
			EUR	EUR
20	2	6.313 842	38,40	34,56
20	10	6.313 843	169,30	152,37
20	50	6.313 844	731,20	658,08

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.	Price EUR
4.95 ± 0.05	0.38	178	100	9.400 310	134,00
4.95 ± 0.05	0.38	203	100	9.400 311	142,00

Closing caps for NMR and EPR tubes



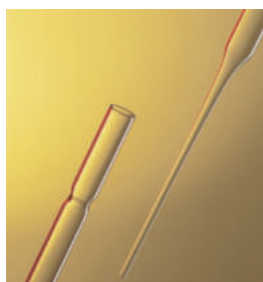
For 5 mm NMR tubes.

Colour	PK	Cat. No.	Price EUR
red	50	4.688 374	7,80
green	50	4.688 375	7,80
yellow	50	4.688 376	7,80
blue	50	4.688 377	7,80

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.	Price EUR
300	1000	4.672 077	1.209,40
350	1000	4.672 078	2.016,30

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.	Price EUR
210 x 110 x 220	1	9.301 065	109,80

NMR spatula, stainless steel



Stainless steel 1.4301, polished.

Width mm	Overall length mm	PK	Cat. No.	Price EUR
3	195	1	4.719 842	11,50

NMR brushes



For cleaning NMR tubes.

Length mm	PK	Cat. No.	Price EUR
250	5	4.669 337	17,00

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.	Price	Now
pH 3110 Set SM PRO	1	4.684 148	816,00	EUR 693,60

-15%

Lithmus papers



ISOLAB
Laborgeräte GmbH

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.	Price	Now
red (pH 5 to 8)	200	6.328 823	8,50	EUR 7,65
blue (pH 8 to 5)	200	6.328 824	8,50	EUR 7,65

-10%

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.	Price	Now
Set testo 205	1	7.615 330	293,00	EUR 278,35

-5%

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.	Price	Now
Set testo 206-pH2	1	7.620 869	267,00	EUR 253,65

-5%

LLG-Indicator paper sticks



LLG
LABWARE

For pH determination. Box of 100 indicator paper sticks of 80 mm length.

Range	PK	Cat. No.	Price	Now
pH			EUR	EUR
0 ... 14	100	9.129 807	13,20	EUR 9,90
5.5 ... 9	100	6.322 832	9,50	EUR 7,13
0 ... 6	100	6.322 833	9,70	EUR 7,28

-25%

Conductivity cell probes TetraCon® 325



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

-10%

Length	Electrode	Shaft	Cable length	PK	Cat. No.	Price	Now
mm			m			EUR	EUR
120	Graphite	Epoxy resin	1.5	1	9.704 081	597,00	537,30

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.

-10%

Length	Electrode	Shaft	Cable length	PK	Cat. No.	Price	Now
mm			m			EUR	EUR
120	Graphite	Epoxy resin	1.5	1	7.653 077	629,00	575,10

LLG-Electrode stand for 3 electrodes



With cable duct. For three electrodes, 3 openings with diam. 16 mm. Additional opening for temperature sensor. Three joints for high flexibility and adjustment options.



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

-15%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Electrode stand	1	6.286 248	96,00	81,60

Conductivity meter ProfiLine Cond 3310



Complete Set



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 M Ω/cm
Memory: 5000 records (measured value, temperature, date, time, ID)

-10%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
Cond 3310	Meter only	1	9.774 409	895,00	805,50
Cond 3310 Set 1	Case set including conductivity probe TetraCon 325 and accessories	1	9.774 400	1.376,00	1.238,40

LLG-pH-Buffer solution, 1000 ml



- Tolerance ± 0.01 , tested and certified at 20 $^{\circ}\text{C}$
- Batch number, expiry date, and temperature dependence data table printed on the label
- Traceable to NIST (SRM)
- pH 9 and 10 are borax-free

The safety data sheets of these products are available under www.llg-labware.com.



-25%

pH-value	Buffer	PK	Cat. No.	Price	Now
				EUR	EUR
at 20 $^{\circ}\text{C}$					
4.00	Citrate	1	4.664 603	25,30	18,98
7.00	Phosphate	1	9.041 368	25,30	18,98
9.00	Borat	1	6.324 547	27,70	20,78
10.00	Borat	1	6.324 542	27,70	20,78

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.

-15%						
Volume	Grad.	Accuracy	Precision	PK	Cat. No.	Price
ml	ml	max. vol. (± R%)	max. vol. (≤ CV%)			EUR
0.1 - 1	0.02	0.6	0.2	1	9.284 380	356,70 303,20
0.5 - 5	0.10	0.5	0.1	1	9.284 384	356,70 303,20
1 - 10	0.20	0.5	0.1	1	9.284 386	356,70 303,20
2.5 - 25	0.50	0.5	0.1	1	9.284 388	466,40 396,44
5 - 50	1.00	0.5	0.1	1	9.284 390	512,70 435,80
10 - 100	1.00	0.5	0.1	1	9.284 392	600,20 586,67

LLG-Disposable Reagent reservoirs economy, PS



Made from polystyrol. Designed for use with multi-channel pipettes and can accommodate up to 12-channel standard pipettes. DNase-, RNase- and pyrogen-free certified.

-35%					
Description	Capacity	PK	Cat. No.	Price	Now
	ml			EUR	EUR
non-sterile, bulk	25	100	6.282 144	72,70	47,26
sterile, single packed	25	100	6.282 145	135,30	87,95
non-sterile, bulk	50	100	6.282 146	89,10	57,92
sterile, single packed	50	100	6.282 147	176,50	114,73

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

-25%						
Capacity	Accuracy	Precision	PK	Cat. No.	Price	Now
µl	max. vol. (± R%)	max. vol. (≤ CV%)			EUR	EUR
0.1 ... 1	2	1.2	1	9.280 140	273,25	204,94
0.1 ... 2.5	1.4	0.7	1	9.280 141	273,25	204,94
0.5 ... 10	1.0	0.5	1	9.280 142	273,25	204,94
2 ... 20	0.8	0.4	1	9.280 143	273,25	204,94
5 ... 50	0.8	0.3	1	9.280 144	273,25	204,94
10 ... 100	0.6	0.2	1	9.280 145	273,25	204,94
20 ... 200	0.6	0.2	1	9.280 146	273,25	204,94
100 ... 1000	0.6	0.2	1	9.280 147	273,25	204,94
500 ... 5000	0.6	0.2	1	9.280 148	273,25	204,94
1000 ... 10000	0.6	0.2	1	9.280 149	273,25	204,94

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.

-15%				
Capacity	PK	Cat. No.	Price	Now
µl			EUR	EUR
0.5 - 10	960	9.409 724	114,70	97,50
5 - 100	960	9.409 727	101,50	86,28
50 - 1000	960	9.409 729	119,80	101,83

Macropipette controllers



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

-15%

For	PK	Cat. No.	Price	Now
			EUR	EUR
Pipette volume up to 2 ml	1	4.008 322	14,00	11,90
Pipette volume up to 10 ml	1	4.008 323	14,00	11,90
Pipette volume up to 25 ml	1	4.008 324	15,50	13,18

Pasteur pipettes, Soda-lime-glass



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

-15%

Nominal capacity	Length	PK	Cat. No.	Price	Now
ml	mm			EUR	EUR
1.5	145	1000	4.688 084	74,00	62,90
1.5	270	1000	4.665 820	158,10	134,39
1.5	310	1000	4.665 821	186,30	158,36

Pipette teats



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



-25%

Capacity	Colour	Material	PK	Cat. No.	Price	Now
ml					EUR	EUR
2	red	NR/Latex	100	4.661 160	100,60	75,45
2	transparent/white	VMQ	10	9.072 682	30,80	23,10

Pipette controller



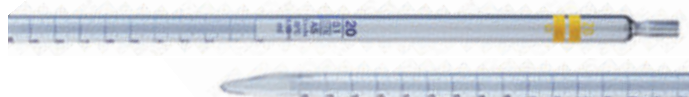
Ergonomic, lightweight and well balanced body offers fatigue-free pipetting. The pump can fill a 25 ml pipette under 4 seconds. Pump speed can be adjusted to 8 different levels.

- LCD display for speed and remaining battery power
- Lithium-ion batteries provide 8 hours continuous use
- Replaceable hydrophobic 0.45 µm PTFE filter
- With silicone adapter

Scope of supply: Pipette controller, charger, wall mounting, dual-position stand

Volume	PK	Cat. No.	Price
ml			EUR
0.1 ... 100	1	6.494 067	250,90

LLG-Graduated pipettes, soda glass, class AS, type 3



- DIN EN ISO 835, DIN 12699
- Conformity-certified
- With batch date identification
- Calibrated to deliver (EX)
- Ring marks and graduations in permanent blue enamel

-25%

Nominal capacity	Graduations	Tolerance	Length	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
1	0.01	0.007	360	10	6.272 200	39,20	29,40
2	0.02	0.01	360	10	6.272 201	40,30	30,23
5	0.05	0.03	360	10	6.272 202	45,00	33,75
10	0.1	0.05	360	10	6.272 203	47,40	35,55
20	0.1	0.1	450	10	6.272 204	71,80	53,85
25	0.1	0.1	450	10	6.272 205	73,30	54,98
50	0.1	0.2	720	10	6.272 206	120,40	90,30

LLG-Two-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, angled side neck



Side neck at 20° angle to the middle neck.
With white inscription.



-15%

Nominal capacity ml	Dimensions (dia. x H) mm	Centre neck NS	Side necks NS	PK	Cat. No.	Price EUR	Now EUR
50	51 x 92	14/23	14/23	1	4.686 152	18,20	15,47
100	64 x 107	14/23	14/23	1	4.686 153	18,70	15,90
100	85 x 142	14/23	14/23	1	4.686 155	22,10	19,64
250	64 x 107	29/32	14/23	1	4.686 154	28,00	23,80
250	85 x 142	29/32	14/23	1	4.686 156	26,80	22,78
500	105 x 165	29/32	14/23	1	4.686 157	34,00	28,90
1000	131 x 203	29/32	14/23	1	4.686 158	54,50	46,33

LLG-Three-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, parallel side necks



Side necks are parallel to the centre neck.
With white inscription.



-15%

Nominal capacity ml	Height mm	Centre neck NS	Lateral neck	PK	Cat. No.	Price EUR	Now EUR
250	140	29/32	NS14/23	1	4.686 166	40,30	34,26
250	140	29/32	NS29/32	1	4.686 169	48,00	40,80
500	163	29/32	NS14/23	1	4.686 167	43,00	37,32
500	163	29/32	NS29/32	1	4.686 170	51,00	44,12
1000	200	29/32	NS14/23	1	4.686 168	69,40	58,99
1000	200	29/32	NS29/32	1	4.686 171	56,30	47,86
2000	240	29/32	NS29/32	1	4.686 172	92,00	78,20

LLG-Three-neck round bottom flasks with standard ground joint, borosilicate glass 3.3, angled side necks



Side necks at 20° angle to the middle neck.
With white inscription.



-15%

Nominal capacity ml	Height mm	Centre neck NS	Lateral neck	PK	Cat. No.	Price EUR	Now EUR
250	140	29/32	NS14/23	1	4.686 159	38,10	32,39
250	140	29/32	NS29/32	1	4.686 160	44,00	37,40
500	163	29/32	NS14/23	1	4.686 161	42,70	36,30
500	163	29/32	NS29/32	1	4.686 162	49,10	41,74
1000	200	29/32	NS14/23	1	4.686 163	56,40	47,94
1000	200	29/32	NS29/32	1	4.686 164	58,30	49,56
2000	240	29/32	NS29/32	1	4.686 165	85,00	72,25

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.

-15%

Joint size (NS)	Material	PK	Cat. No.	Price EUR	Now EUR
14	Rubber septum	10	4.715 161	9,00	7,65
19	Rubber septum	10	4.715 162	11,40	9,69
24	Rubber septum	10	4.715 163	14,30	12,16
29	Rubber septum	10	4.715 164	17,40	14,79
14	Silicone septum	10	4.715 165	13,40	11,39
19	Silicone septum	10	4.715 166	20,00	17,00
24	Silicone septum	10	4.715 167	23,30	19,81
29	Silicone septum	10	4.715 168	35,00	29,75

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.

-15%

Cone	PK	Cat. No.	Price EUR	Now EUR
NS				
14/23	1	4.008 360	15,20	12,92
29/32	1	6.244 589	17,40	14,79

Analytical volumetric solutions



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

-15%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
EDTA 0.01 M (0.02 N)	1	4.011 461	24,10	20,49
EDTA 0.1 M (0.2 N)	1	4.011 462	35,40	30,09
Hydrochloric Acid 0.05 M (0.05 N)	1	4.011 493	35,40	30,09
Iodine 0.01M (0.02N)	1	4.696 337	149,87	127,39
Iodine 0.05 M (0.1 N)	1	4.011 501	51,50	43,78
Sodium Hydroxide 0.01 M (0.01 N)	1	4.011 632	46,50	39,53
Sodium Hydroxide 0.05 M (0.05 N)	1	4.011 637	83,20	70,72
Sodium Hydroxide 0.1 M (0.1 N)	1	6.243 899	21,70	18,45
Sulphuric acid 0.005M (0.01N)	1	4.696 388	26,32	22,37
Sulphuric Acid 0.01 M (0.02 N)	1	6.227 710	17,70	15,05
Sulphuric Acid 0.05 M (0.1 N)	1	4.011 679	17,70	15,05
Sodium Thiosulphate 0.01 M (0.01 N)	1	4.011 658	20,00	16,27
Sodium Thiosulphate 0.1 M (0.1 N)	1	6.235 620	21,70	18,45
Silver nitrate 0.01M (0.01N)	1	4.696 362	105,42	89,61
Oxalic Acid 0.05 M (0.1 N)	1	6.251 706	44,10	37,49

Titration indicators



Indicator solutions for endpoint determination in the performance of titrations.

-15%

Type	Capacity	PK	Cat. No.	Price	Now
	ml			EUR	EUR
Bromocresol purple, 1% (w/v)	500	1	4.684 913	105,00	89,25
Bromophenol blue, 0.1% (w/v)	500	1	4.684 908	82,80	70,38
Cresol red indicator 0.04% (w/v)	500	1	4.684 916	82,80	70,38
Methylene blue, 0.05%	250	1	4.684 918	51,50	43,78
Malachite green indicator 0.05% (w/v)	500	1	4.696 412	72,68	61,78
Phenol red indicator 0.5% (w/v)	500	1	4.696 415	82,76	70,35
Alizarin red solution	125	1	4.684 906	50,10	42,59

Burettes, with straight stopcock, borosilicate glass 3.3, class AS



With class AS, conformity certified, with batch identification, blue graduations, DIN EN ISO 385. PTFE spindle. With and without Schellbach stripes.

-15%

Capacity	Grad.	Tolerance	PK	Cat. No.	Price	Now
ml	ml	± ml			EUR	EUR
10	0.02 *	0.020	1	4.008 311	115,60	98,26
25	0.05 *	0.030	1	9.270 100	117,30	99,71
50	0.10 *	0.050	1	9.270 101	117,10	99,54
10	0.02	0.020	1	9.270 102	96,20	81,77
25	0.05	0.030	1	9.270 103	90,20	84,32
50	0.10	0.050	1	9.270 104	102,90	87,47

* with Schellbach stripes

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

-10%

Type	Burette attachment	PK	Cat. No.	Price	Now
	ml			EUR	EUR
T 300/20 M1	20	1	9.863 180	2.118,00	1.906,20
T 300/50 M1	50	1	9.863 181	2.118,00	1.906,20
T 300/20 M2	20	1	9.863 182	2.360,00	2.124,00
T 300/50 M2	50	1	9.863 183	2.360,00	2.124,00

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.	-10%	
			Price	Now
160 x 75 x 260	1	6.495 354	EUR 107,30	EUR 96,57

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.	-30%	
			Price	Now
LLG-Disposable Protective Visors	20	6.284 812	EUR 89,50	EUR 62,65

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.	-10%	
			Price	Now
124 x 134 x 295	1	6.495 056	EUR 40,20	EUR 36,18

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.	-10%	
			Price	Now
1-litre Vario bottle	6	6.495 623	EUR 38,00	EUR 34,20
2-litre Vario bottle	6	6.495 622	EUR 70,00	EUR 63,00

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.	-40%	
				Price	Now
1	from the side	1	4.711 548	EUR 23,00	EUR 14,34
3	from above	1	4.711 539	EUR 39,00	EUR 23,40
3	from the front	1	4.711 540	EUR 43,00	EUR 25,80

LLG-Disposable Gloves *classic*, Latex

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



The ideal glove for all applications which require a high tactile sensitivity.

- Skin-friendly
- Powder-free
- Excellent tactile sensitivity
- High durability due to special formulation
- **Cat. III Low Chemical resistant.** AQL 1.5.
- Thiuram free, reduced risk of contact eczemas

According to EN ISO 374-1:2016/Type C, EN ISO 374-5:2016, EN 420 Suitable for food handling.

You can find the appropriate compatibility list on www.llg-labware.com in the Downloads section.



Glove shape:	flat with rolled edge, ambidextrous
Material:	natural latex
Colour:	natural white
Outside:	textured fingers
Inside:	powder free
Size/Length:	S, M, L, XL/med. 240 mm
Thickness (measured in double layer):	0.20 mm

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.	-25%	
			Price	Now
Eye wash bottle 0.9% NaCl, 200 ml	1	9.733 794	EUR 12,80	EUR 9,60
Spare eyewash bottle, 0.9% NaCl, 500 ml	1	9.733 793	EUR 17,70	EUR 13,28
Eye wash bottle DUO 0.9% NaCl, 1000 ml	1	6.240 397	EUR 33,50	EUR 25,13

-15%

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S	100	9.006 383	14,90	12,67
M	100	9.006 384	14,90	12,67
L	100	9.006 385	14,90	12,67
XL	90	9.006 386	14,90	12,67

LLG-Safety Eyeshields *basic*



- CE approved to EN166 and EN170
- Perfect for visitors as well as over goggles for spectacle wearers
- Integrated side lens with venting, 180° visual field
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Weight: 43 g

Colour	PK	Cat. No.	-40%	
			Price	Now
			EUR	EUR
Clear	10	9.006 002	41,40	24,84

Cleanroom Gloves AdvanTech529, nitrile

EN ISO 374-1 EN ISO 374-5 EN 421
Type B



MAPA
PROFESSIONAL



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.	Price
			EUR
6	100	6.270 501	31,75
7	100	6.270 502	31,75
8	100	6.270 503	31,75
9	100	6.270 504	31,75
10	100	6.270 505	31,75

Adhesive Mats ASPURE, MDPE

AS ONE



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.

-15%					
Colour	Dimensions (D x W) mm	PK	Cat. No.	Price	Now
				EUR	EUR
blue	450 x 900	10	4.659 087	161,70	137,45
blue	600 x 900	10	4.659 088	181,20	154,02
blue	600 x 1200	10	4.659 089	188,40	160,14
white	450 x 900	10	4.659 092	161,00	136,85
white	600 x 900	10	4.659 090	181,20	154,02
white	600 x 1200	10	4.659 091	188,40	160,14

ESD clean room chair, WS 1720 RR ESD

WERKSITZ



- 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

-10%			
Seat height adjustment	PK	Cat. No.	Price
			EUR
mm			EUR
510-630	1	4.661 513	696,00 626,40

Cleanroom Wipes Sontara® MicroPure, polyester/cellulose



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

-25%					
Type	Dimensions	Cleanroom Class	PK	Cat. No.	Price
	mm				EUR
MicroPure 100	305 x 305	ISO 5 + 6	150	9.390 185	50,10 37,58
MicroPure 100	224 x 224	ISO 5 + 6	300	9.390 186	49,70 37,28
MicroPure AP	305 x 305	ISO 6 - 9	150	9.390 187	51,50 38,63
MicroPure AP	224 x 224	ISO 6 - 9	300	9.390 188	48,90 36,68
MicroPure SV	305 x 305	ISO 7 - 9	250	9.390 189	53,30 39,98
MicroPure SV	224 x 224	ISO 7 - 9	500	9.390 190	65,60 49,20



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.

-15%

Material	Description	PK	Cat. No.	Price	Now
				EUR	EUR
PU foam	Castors	1	6.287 757	164,00	139,40
PU foam	Castors, foot ring	1	6.314 807	260,00	221,00
PU foam	Glides, foot ring	1	6.287 759	221,70	188,45
Artificial leather	Castors	1	6.287 758	159,90	135,92
Artificial leather	Glides, foot ring	1	6.287 760	215,60	183,26

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.

-15%

Material	Description	PK	Cat. No.	Price	Now
				EUR	EUR
PU Foam	Castors	1	6.287 750	256,00	218,37
Artificial Leather	Castors	1	6.287 753	252,70	214,80
PU Foam	Stop and Go Castors, Foot Ring	1	6.287 752	308,50	262,23
Artificial Leather	Stop and Go Castors, Foot Ring	1	6.287 755	304,30	258,66

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

-5%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
(1) S-Classic-90 WD	1	6.282 015	3.330,00	3.163,50
(2) S-Classic-90 WD	1	7.671 314	3.380,00	3.211,00
(3) S-Classic-90 WD	1	7.940 686	3.280,00	3.116,00
(4) S-Classic-90 WD	1	6.323 841	3.330,00	3.163,50

Vortexer LLG-uniTEXER multi



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

-20%

Type	Plug type	PK	Cat. No.	Price	Now
LLG-uniTEXER multi	EU	1	6.263 507	EUR 267,30	EUR 213,84

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

-10%

Type	Type of movement	PK	Cat. No.	Price	Now
SM 30 A	orbital	1	9.838 101	EUR 3.172,00	EUR 2.854,80
SM 30 B	reciprocating	1	9.838 111	EUR 3.238,00	EUR 2.914,20
SM 30 C	orbital, reciprocating	1	9.838 115	EUR 4.199,00	EUR 3.779,10

Vortex mixers WIZARD/TX4 with IR sensor



- IR sensor for sample detection
- Very good chemical resistance



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.	Price
	kg				EUR
WIZARD	2.2	EU	1	4.666 536	249,00
TX4	2.7	EU	1	4.666 537	300,00

Accessories for universal shaker SM 30



-10%

Type	PK	Cat. No.	Price	Now
Rack system Combifix SM, Set A	1	9.838 201	EUR 447,00	EUR 402,30
Universal tray SM (without spring clamps)	1	9.838 210	EUR 299,00	EUR 269,10

Overhead stirrer RW 20 digital



- 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. (H₂O): 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.	Price	Now
RW 20 digital	EU	1	9.816 622	1.509,00	1.282,65

-15%

Crescent-shaped stirring rotors, PTFE



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.	Price	Now
mm	mm	mm	mm			EUR	EUR
65	8	6.5	350	1	9.197 121	163,60	147,24
90	8	6.5	350	1	6.086 868	181,60	163,44
90	8	6.5	450	1	9.197 122	158,70	142,83
90	10	8.0	350	1	9.197 127	179,70	161,73
90	10	8.0	450	1	9.197 124	170,00	153,81
90	10	8.0	600	1	9.197 125	198,70	178,83
125	8	14.0	800	1	6.523 357	246,10	221,49
125	16	14.0	800	1	9.197 126	318,70	286,83

-10%

Multi-position magnetic stirrers RO 5/10/15 series



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 (H₂O): 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.	Price	Now
RO 5	5	120 x 570 x 60	1	9.720 208	1.720,00	1.462,00
RO 10	10	190 x 570 x 60	1	9.720 222	1.985,00	1.687,25
RO 15	15	280 x 570 x 60	1	9.720 226	2.775,00	2.358,75

-15%

Magnetic stirrer ARE 5

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.	Price	Now
ARE 5	1	4.688 307	322,00	298,80

-10%

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

-20%

Type	Capacity	Readability	PK	Cat. No.	Price	Now
	g	mg			EUR	EUR
ACJ 100-4M	120	0.1	1	6.316 869	1.430,00	1.144,00
ACJ 200-4M	220	0.1	1	4.680 330	1.530,00	1.224,00

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

-20%

Type	Capacity	Readability	PK	Cat. No.	Price	Now
	g	g			EUR	EUR
PNJ 600-3M	620	0.001	1	6.270 591	960,00	768,00
PNJ 3000-2M	3200	0.01	1	7.643 634	900,00	720,00

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.



-20%

Display type	Dimensions (W x D x H) mm	Plug type	PK	Cat. No.	Price	Now
LCD	114.6 x 188.2 x 86.6	EU/UK/CH/US/AUS	1	6.494 403	580,00	464,00

Antivibration plates, granite



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

-15%

External dimensions (W x D x H)	Weight	PK	Cat. No.	Price	Now
mm	kg			EUR	EUR
400 x 450 x 60	30	1	4.685 143	760,00	646,00
565 x 450 x 60	42	1	4.685 144	980,00	833,00

LLG-Sample dishes, Aluminium



High quality aluminium.

-20%

Description	Diam.	Height	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
Sample dishes	90	7	80	6.282 670	45,20	36,16
Sample dishes	100	7	80	6.265 408	46,20	36,96
Sample dishes with rim	100	7	80	6.281 537	46,20	36,96

LLG weighing scoops, porcelain

**-15%**

Length	PK	Cat. No.	Price	Now
mm			EUR	EUR
37	5 x 1	9.115 350	22,50	19,13
53	5 x 1	6.241 255	28,00	23,80
64	5 x 1	9.115 351	30,00	25,50

Weighing paper MN 226



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

Width	Length	PK	Cat. No.	Price
mm	mm			EUR
90	115	100	9.058 975	14,50

Balance brush



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

-15%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Brush set	1	6.266 825	46,30	39,36

WATER TREATMENT

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

-10%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
OmniaPure xs ^{basic}	1	4.686 066	4.210,00	3.789,00
OmniaPure xs ^{basic} UV	1	4.686 067	4.950,00	4.455,00

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)

-5%

Type	Output	Water consumption	PK	Cat. No.	Price	Now
	L / hr.	approx. L / hr.			EUR	EUR
PD 4	4	40	1	9.910 681	1.580,00	1.501,00
PD 4 R	4	48	1	9.910 683	2.220,00	2.109,00
PD 8 R	8	72	1	9.910 684	2.780,00	2.641,00
PD 12 R	12	198	1	9.910 685	3.700,00	3.515,00

Distilled water



Capacity	PK	Cat. No.	Price
L			EUR
10.0	1	6.273 852	12,10
20.0	1	6.280 900	24,70
60.0	1	6.289 280	66,90

Mini-Diaphragm vacuum pumps LABOPORT® N96, chemically-resistant



Topseller



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

-15%

Flow rate L / min.	Ultimate vacuum mbar (abs.)	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR	Now EUR
7	130	75 x 156 x 119	1	4.672 374	498,00	423,30

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.	Price EUR
TM 201	0.00005 ... 1.200	1	4.714 985	1.331,00
Storage case	-	1	4.714 987	172,00

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

-15%

Type	Plug type	PK	Cat. No.	Price EUR	Now EUR
RZ 6+FO+VS 16	EU	1	4.691 552	2.295,00	2.800,75
RZ 6+FO+VS 16+VACUU-VIEW extended	EU	1	4.691 560	4.185,00	3.557,25

Condensation traps, borosilicate 3.3, two-piece

retberg



Side connections with hose connectors.

-10%

Capacity ml	Cone	Socket	PK	Cat. No.	Price EUR	Now EUR
100	29	29	1	9.305 350	152,10	136,89
250	45	45	1	9.305 351	172,90	155,61

LABORTOPS

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 °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 cm²
Power supply: 230 V



						-5%
Type	Plug type	PK	Cat. No.	Price	Now	
G1 Angled condenser	EU	1	4.666 085	EUR 3.938,00	EUR 3.741,10	