

# LABORTOPS

## COOLING INCUBATOR INC 125 FC

**IKA®**

- **Cooling incubator with decontamination mode**
- **Capacity 125 litres**
- **Simple and intuitive operation**

**New**



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UV/PCR cabinets UVT-B-AR

**!** UV exposure control with internal socket



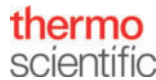
Benchtop models for protection against contamination during a variety of DNA/RNA procedures.

- UV surface irradiation, via 1 x 25 W 254 nm open UV lamp
- Patented high-intensity UV air cleaner, 25 m<sup>3</sup>/hour cleaner-recirculation continuous airflow with 1 cm UV irradiation distance
- UV lamp in the upper hood disinfects the working area, inactivating DNA/RNA fragments during 15-30 min of exposure
- UV exposure control, 24-hour digital timer
- Convenient, easy-to-use digital timer for accurate control of UV exposure
- White lamp provides local illumination of the workplace to optimise visual control during operations
- Shockproof glass panels, metal framework and stainless steel work surface
- Automatic switch-off of open UV light when door opened
- Internal power socket

**-10%**

External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	Plug type	PK	Cat. No.	Price EUR	Now EUR
690 x 585 x 555	650 x 475 x 450	EU	1	9.721 070	<del>2.610,30</del>	<b>2.349,27</b>

DNA AWAY™ for surface decontaminant



Eliminates unwanted DNA and DNase from glassware and plasticware without affecting subsequent DNA samples. Degrades DNA more quickly and effectively than autoclaving.

**-28%**

Capacity ml	PK	Cat. No.	Price EUR	Now EUR
250	1	6.228 401	<del>27,50</del>	<b>19,86</b>

Blue light LED transilluminators runVIEW MINI



By using blue light, both traditionally ethidium bromide-coloured gels and safe stains can be safely illuminated. The viewing window with an orange filter, allows real-time viewing of DNA in electrophoresis chambers, enabling rapid verification of PCR accuracy and restriction digestion results. The device can also be used as a stand-alone transilluminator, where the gel is applied directly to the illuminator.

- High high-intensity blue LED illuminator allows visualization of a wide range of fluorescent gel stains
- Compatible with runSAFE, commercial safe stains and ethidium bromide

**Scope of supply:** Transilluminator, filter (orange)

**Specifications**

Wavelength:	470 nm
Viewing size:	112 x 75 mm
Dimensions (W x D x H):	86 x 170 x 25 mm
Weight:	338 g
Power supply:	DC 12 V, 2 A

**-20%**

Type	PK	Cat. No.	Price EUR	Now EUR
runVIEW MINI	1	6.313 471	<del>535,50</del>	<b>428,40</b>

LLG-Agarose Standard



Made in the EU



LLG-Agarose is ideal for routine separation of DNA and RNA fragments, as well as PCR products with electrophoresis. High transparency and low background of the agarose gel ensure clear and sharply defined bands.

- Very good dissolution and rapid gel formation
- High gel strength even at low agarose concentrations
- Suitable for agarose concentrations from 0.75 up to 2%
- Good separation efficiency for nucleic acid fragments between 250 bp and 23 kb
- Free of DNase and RNase



Appearance:	White powder
Clarity (NTU):	≤4 (1.5% gel)
Gelling point:	36 ±1.5 °C (1.5% gel)
Melting point:	88 ±1.5 °C (1.5% gel)
Gel strength:	≥1000 g/cm <sup>2</sup> (1% gel)
Sulphate:	≤0.15%

**-25%**

Capacity g	PK	Cat. No.	Price EUR	Now EUR
100	1	4.681 511	<del>81,40</del>	<b>61,05</b>
500	1	4.681 512	<del>305,60</del>	<b>229,20</b>

### Cooling incubator INC 125 FC



- With inner glass door
- With defrost function
- Wide temperature range



Ideal for microbiological applications thanks to the wide temperature range and precise temperature control.

- Decontamination mode with 100 °C
- Internal air circulation can be influenced by electronically adjustable fan speed
- Use of the natural refrigerant R290
- Additional inner glass door
- Rounded corners and smooth surfaces
- Defrost function with continuous water drainage through the drain opening
- Door hinge on the right can be changed on request
- Optional lockable door



**Scope of supply:** Cooling incubator INC 125 FC, 2 x wire grid trays IO T 2.10, 2 x tilt protection/assembly material, USB A-B cable, calibration certificate at 37 °C and 10 °C, hose adapter (for Ø 9 to 11 mm)

**Specifications**

Nominal capacity:	125 l
Temperature:	-5 ... 100 °C
Temperature stability:	±0.2 K
Max. no. of inserts:	6
Ext. dim. (WxDxH):	700 x 635 x 1000 mm
Int. Dim. (WxDxH):	550 x 415 x 550 mm
Weight:	80 kg
Power supply:	220 ... 240 V, 50/60 Hz

**-5%**

Type	Plug type	PK	Cat. No.	Price	Now
INC 125 FC	EU	1	4.699 384	EUR 4.800,00	EUR 4.560,00

### LLG-Inoculation loops, PS, sterile



Made of flexible polystyrene. With ultra-smooth loops for problem-free planting and streaking of cultures. Free of lubricants, oils and electrostatic charges, enabling consistent and complete liquid transfer. The ergonomic design of the loops for optimal grip and an easy orientation of the loop head. The needle end shape is perfect for picking off individual isolated colonies and suitable for making stab inoculations into agar slants or tubes of solid culture medium.

Package: 10 bags of 10 pieces

**-20%**

Type	Capacity	PK	Cat. No.	Price	Now
Needle / loop	µl			EUR	EUR
Needle / loop	1	200	9.160 041	EUR 27,56	EUR 22,05
Needle / loop	10	200	9.160 042	EUR 27,56	EUR 22,05
Loop / loop	1 / 10	200	9.160 043	EUR 27,56	EUR 22,05

### Tubes, glass, DURAN®, culture, screw cap



DIN thread. Complete with red PBT screw cap with PTFE-faced sealing wad. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable.

**-15%**

Diam.	Height	Neck thread	PK	Cat. No.	Price	Now
mm	mm	GL			EUR	EUR
12	100	14	50	9.010 012	EUR 221,10	EUR 187,94
13	100	14	50	9.010 013	EUR 222,20	EUR 188,87
16	150	18	50	9.010 014	EUR 222,20	EUR 188,87
16	160	18	50	9.010 016	EUR 286,60	EUR 243,61
18	180	18	50	9.010 018	EUR 312,60	EUR 265,71
20	150	18	50	9.010 019	EUR 328,70	EUR 279,40

### LLG-Microbiological Media

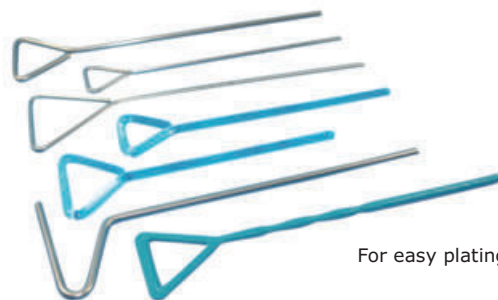


For numerous micro- and molecular biological applications. The safety data sheets of these products are available at [www.llg-labware.com/en/zertifikate](http://www.llg-labware.com/en/zertifikate).

**-30%**

Description	Capacity	PK	Cat. No.	Price	Now
	g			EUR	EUR
Luria Bertani (Miller), Powder	500	1	6.271 000	EUR 59,10	EUR 41,37
Luria Bertani (Lennox), Powder	500	1	6.271 010	EUR 61,00	EUR 42,70
Terrific Broth, Powder	500	1	6.271 007	EUR 63,40	EUR 44,38
2xYT Broth, Powder	500	1	6.271 001	EUR 75,50	EUR 52,85
Bact. Agar, Powder	500	1	6.271 003	EUR 112,70	EUR 78,89
Luria Bertani Agar (Miller), Powder	500	1	6.271 009	EUR 68,00	EUR 47,60
Luria Bertani Agar (Lennox), Powder	500	1	6.271 008	EUR 67,80	EUR 47,46
YPD Broth, Powder	500	1	6.271 002	EUR 65,20	EUR 45,64
Yeast Extract, Powder	500	1	6.271 004	EUR 58,20	EUR 40,74
Tryptone, Powder	500	1	6.271 005	EUR 98,00	EUR 68,60
Casein Peptone, Powder	500	1	6.271 011	EUR 84,30	EUR 59,01
Tryptic Soya Agar (Caso-Agar), Powder	500	1	6.271 006	EUR 92,00	EUR 65,03
Trypticasein Soy Broth (TSB-media), Powder	500	1	6.271 018	EUR 83,00	EUR 58,10

### LLG-Drigalski spatulas and Inoculation hooks



For easy plating.

**-20%**

Diam.	Width	Length	Material	PK	Cat. No.	Price	Now
mm	mm	mm				EUR	EUR
4	40.0	190	Stainless steel 18/10	2	9.197 490	EUR 28,20	EUR 22,56
5	30.0	150	Borosilicate glass 3.3	2	9.197 499	EUR 12,40	EUR 9,92
4	51.5	174	PS, sterile*	200	6.251 768	EUR 33,80	EUR 27,04

\* Individually packed

## Greenough Stereo Microscopes Lab-Line OZL



- Ideal for training purposes
- Flexible all-rounder

The flexible all-rounder with zoom function for schools, training companies, inspection authorities and laboratories.

- Tube 45° inclined
- Wide Field WF 10x/20 mm
- Diopter adjustment: Both-sided
- Illumination: 3 W-LED Incident and 3 W-LED transmitted, separately dimmable
- Protective dust cover, eyepiece rubber caps, as well as multi-lingual user instructions included in the scope of delivery



**-15%**

Type	Description	Magnification	PK	Cat. No.	Price	Now
					EUR	EUR
OZL 463	Binocular	7x ... 45x	1	6.286 167	<del>600,00</del>	<b>510,00</b>

## Transmitted light microscope-digital sets OBE, with tablet camera

The set is the comprehensive digital solution for school, training and laboratory.

- Tube 30° inclined, 360° rotatable
- Diopter adjustment at one eyepiece tube
- Dimmable 3 W LED illumination

**Scope of supply:** Transmitted light microscope, camera, dust cover, eye cups, manual instruction

### Specifications

Tube:	Trinocular
Revolving nosepiece:	4-fold
Magnification eyepieces:	HWF 10x/18 mm
Inclination angle tube:	30°
Light type:	LED
Interpupillary distance:	48 ... 75 mm
Condenser:	Abbe N.A. 1.25
Resolution camera:	5 MP
Sensor:	CMOS 1/2.5"
Interfaces:	WLAN, USB 2.0, HDMI, SD (15 ... 30 FPS)
Stage (WxD):	125 x 115 mm
Dimensions (WxDxH):	320 x 180 x 365 mm
Weight:	5.5 kg



**-15%**

Type	Magnification Objectives	PK	Cat. No.	Price	Now
				EUR	EUR
OBE 134T241	4x, 10x, 40x, 100x	1	4.691 072	<del>2.020,00</del>	<b>1.717,00</b>

## Cold Light Source KL 1600 LED Packages



- Suitable for photo documentation
- Very long life time



The KL 1600 LED is an innovative fibre optic light source which uses cold light to illuminate all types of objects in industrial and life science applications.

### Scope of supply:

LED Cold light source KL 1600 LED incl. 2-armed gooseneck light guide, 2 focus lenses, according to a power cord

### Specifications

Colour temperature:	5600 K
Light flux:	680 lm
Dimensions KL 1600 LED (W x D x H):	114 x 231 x 137 mm
Dimensions light guide (Ø x L):	4.5 x 600 mm
Weight:	3.9 kg
Power supply:	100 ... 240 V, 50/60 Hz

**-10%**

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
KL 1600 LED Package	EU	1	4.666 289	<del>1.196,00</del>	<b>1.076,40</b>

## LED Illumination, direct



**Innovative and powerful**



Spotlight Plus Double

Lens adapter

Ringlight

**EasyLED Ringlight Plus:** Powerful and robust LED ring light with continuous dimming. Ringlight Plus version with basic segment features and segment rotation. Easy and intuitive operation via integrated jog dial wheel. Including a wide input range power supply with a worldwide plug (clip system). External/internal diameter 114/66 mm. If necessary, please order the necessary lens adapter separately.

**EasyLED Spotlight Plus (Double):** Advanced high-power LED gooseneck system with integrated controller and continuous dimming. With the Spotlight Plus Double, the two spots can also be activated individually. Including a wide input range power supply with a worldwide plug (clip system).

**Please order the mounting bracket or column adapter separately.**

**-10%**

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
Ringlight	no segments	1	6.258 176	<del>550,00</del>	<b>495,00</b>
Ringlight Plus	8 segments	1	6.238 244	<del>600,00</del>	<b>540,00</b>
Spotlight Plus Double	double arm, separately switchable	1	6.266 981	<del>600,00</del>	<b>540,00</b>

## Accessories for SCHOTT Ringlights

**-10%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Lens adapter, int. diam. 66 on thread M48 x 0.75	1	6.254 613	<del>59,00</del>	<b>53,10</b>
Lens adapter, 60 mm to 66 mm	1	6.270 980	<del>37,00</del>	<b>33,30</b>
Lens adapter, 58 mm to 66 mm	1	9.705 272	<del>48,00</del>	<b>43,20</b>

### Square cover slips

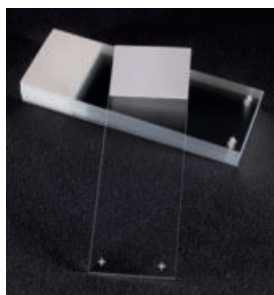


Made of D263 M borosilicate glass. Accurate cutting free of flaws and blisters. Further thicknesses are available on request.

**-30%**

Width	Length	Thickness	PK	Cat. No.	Price	Now
mm	mm	mm			EUR	EUR
40	24	0.13-0.16	1000	9.161 040	<del>61,00</del>	<b>42,70</b>
50	24	0.16-0.19	1000	6.802 036	<del>97,00</del>	<b>67,90</b>
50	22	0.13-0.16	1000	9.161 028	<del>83,00</del>	<b>58,10</b>
50	24	0.13-0.16	1000	9.161 050	<del>70,50</del>	<b>49,35</b>
60	24	0.13-0.16	1000	9.161 060	<del>81,00</del>	<b>56,70</b>

### Superfrost® Plus adhesive microscope slides



Size: 75 x 25 x 1.0 mm. Ground edges 90°, white SuperFrost marking area. A new application method provides the surface of a slide with a permanent positive charge. Electrostatic attraction binds fresh, frozen tissue sections and cytology preparations.

**-30%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
SuperFrost® Plus	72	9.161 155	<del>32,20</del>	<b>22,54</b>

### LLG-Slide dispenser



The slide dispenser can dispense 72 slides, individually. With a transparent, removable upper section for easy viewing of remaining slides and clean storage. For microscope slides with dimensions 75 x 25 mm and 76 x 26 mm.

**-25%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Dispenser	1	9.161 000	<del>38,40</del>	<b>28,80</b>

### LLG-Forceps assortment, 4-parts, chromium-nickel steel



LLG-Forceps assortment, 4-parts, chromium-nickel steel (1.4301) in the synthetic leather bag including:

- 1 Sharp forceps, curved, 115 mm
- 1 Thumb forceps, 115 mm
- 1 Forcep with guide pin straight, 130 mm
- 1 Coverglas forceps, 115 mm
- 1 Synthetic leather bag, 6 subjects 100 x 175 mm

**-40%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Forceps assortment, 4-parts	1	9.160 394	<del>35,50</del>	<b>21,30</b>

### LLG-Slide mailers



Manufactured from high-density polypropylene, for shipping, storing or staining slides. Flat mailers can hold 1, 2, 3 or 5 standard (up to 76 x 26 mm) slides securely.

- Lightweight and flat
- With marking area and "Top" printed on top surface
- With large, easy-to secure snaps.
- Slotted channels inside the mailer keep slides safely separated

**-20%**

To hold microscope slides	PK	Cat. No.	Price	Now
			EUR	EUR
1	10	9.161 291	<del>10,41</del>	<b>8,33</b>
2	10	9.161 292	<del>11,84</del>	<b>9,47</b>
3	10	9.161 293	<del>13,88</del>	<b>11,10</b>
5	10	9.161 294	<del>12,96</del>	<b>10,37</b>

## Steam sterilizers (autoclaves), HV series



Tireless, durable and simple

- Certified according to the Pressure Equipment Directive 2014/68/EU
- Optionally available with flexible temperature sensor for the sterilization of liquids
- For all devices up to 110 litres only a single-phase power supply (220/240 V; 50/60 Hz) is required
- Timer function and 3 program groups with a max. of 6 programs including dissolution program, adaptations for customized programs are always possible
- No installation of a feed water supply required
- Castors for mobile use
- Easy to clean plastic surface with rounded edges in contact areas (no burns or injuries)
- The accessories make it possible to configure the autoclave according to your wishes
- Exhaust air filters for laboratories of safety level S2 and higher are optionally available

**-3%**

Type	Capacity	External dimensions (W x D x H)	PK	Cat. No.	Price	Now
	Litres	mm			EUR	EUR
HV-L25	25	480 x 460 x 950	1	7.980 025	<del>9.560,00</del>	<b>9.273,20</b>
HV-L50	50	540 x 530 x 1040	1	6.232 481	<del>11.925,00</del>	<b>11.567,25</b>
HV-L85	85	660 x 650 x 1000	1	9.842 418	<del>14.400,00</del>	<b>13.968,00</b>
HV-L110	110	660 x 650 x 1180	1	6.254 337	<del>17.995,00</del>	<b>17.455,15</b>

## LLG-Autoclavable Bags, PP, with Biohazard printing



Autoclavable bags imprinted with biohazard labelling. Made of polypropylene. Strong side seams for securely holding items. Front write-on panel. Autoclavable.

**-40%**

Capacity	Length	Width	PK	Cat. No.	Price	Now
L	mm	mm			EUR	EUR
12	660	310	50	9.404 050	<del>37,00</del>	<b>22,20</b>
14	600	415	50	9.404 051	<del>44,60</del>	<b>26,76</b>
35	810	610	50	9.404 052	<del>75,80</del>	<b>45,48</b>

## Autoclave deodorant Anabac®

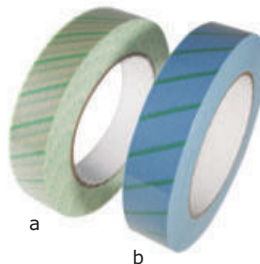


Laboratories are very concerned about hygiene, cleanliness and comfort in the workplace. Try Anabac® autoclave deodorant balls to improve the working environment in the laboratory. These autoclave deodorant balls bring a discrete scent that speaks of cleanliness.

**-17%**

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
Poma	Apple fragrance	100	6.231 161	<del>120,00</del>	<b>99,60</b>
Citrus	Lemon fragrance	100	6.231 720	<del>120,00</del>	<b>99,60</b>

## Indicator tape for steam, hot air and gas sterilisation



Crepe paper, adhesive. With indicator. Colour changes according to DIN EN ISO 11140-1.

Rolls of 50 m.

**-17%**

With	Width	Figure	PK	Cat. No.	Price	Now
	mm				EUR	EUR
Steam indicator	19	a	1	9.140 784	<del>15,60</del>	<b>12,95</b>
Steam indicator	25	a	1	9.140 789	<del>17,10</del>	<b>14,19</b>
Steam indicator, strongly adhesive, for non-woven fabric	25	b	1	9.140 791	<del>17,00</del>	<b>14,11</b>



## Homogeniser T 18 mini digital ULTRA-TURRAX®



- High-performance disperser
- Compact design
- Large speed range

Economical high-performance disperser for working with small rotor diameters and high circumferential speeds. Compact design for use in confined spaces, e.g. in fume hoods, with the large TFT display allowing readout from a distance. For simple applications for homogenising samples with low viscosity.

- Digital speed display and adjustment
- Brushless motor
- Timer function for unattended operation
- Wide selection of stainless steel and plastic dispersing elements
- With quick coupling
- USB interface for remote control and documentation with IKA labworldsoft® software

Please order dispersing tools separately.

### Specifications

Working volume:	1 ... 1500 ml
Speed:	3000 ... 25000 rpm
Max. Viscosity:	2000 mPa·s
Dimensions (W x D x H):	66 x 100 x 186 mm
Weight:	1.8 kg
Power supply:	100 ... 240 V, 50/60 Hz

**-4%**

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
T 18 mini digital ULTRA-TURRAX®	EU	1	4.699 385	<del>1.500,00</del>	<b>1.440,00</b>

## Homogeniser T 25 mini control ULTRA-TURRAX®



High-performance disperser with temperature measurement up to 125 °C for working with small rotor diameters and high circumferential speeds. Compact design for use in confined spaces, e.g. in fume hoods, with the large TFT display allowing readout from a distance. For simple applications for homogenising samples with low viscosity.

- Digital speed display and adjustment
- Brushless motor
- Timer function for unattended operation
- Wide selection of stainless steel and plastic dispersing elements
- With quick coupling
- USB interface for remote control and documentation with IKA labworldsoft® software

Please order dispersing tools separately.

### Specifications

Working volume:	1 ... 1500 ml
Speed:	600 ... 25000 rpm
Max. Viscosity:	2000 mPa·s
Dimensions (W x D x H):	66 x 100 x 186 mm
Weight:	1.8 kg
Power supply:	100 ... 240 V, 50/60 Hz

**-4%**

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
T 25 mini control ULTRA-TURRAX®	EU	1	4.699 386	<del>2.200,00</del>	<b>2.112,00</b>

## Dispersing heads for T18 mini digital



S 18 N - 19 G

Stainless steel dispersing heads: Ultimate fineness emulsions 1 to 10 µm and suspensions 10 to 50 µm, sterilisable by all methods.

**-4%**

Type	Diam. rotor / stator mm	Material	PK	Cat. No.	Price	Now
					EUR	EUR
S 18 N - 10 G	7.5 / 10	PTFE, AISI 316L	1	9.570 841	<del>1.316,00</del>	<b>1.263,36</b>
S 18 N - 19 G	12.7 / 19	PTFE, AISI 316L	1	9.570 842	<del>1.316,00</del>	<b>1.263,36</b>

## Dispersing heads for T25 mini control



S 25 N - 25 G

Stainless steel dispersing heads: Ultimate fineness: emulsions 1 to 10 µm and suspensions 5 to 50 µm, sterilisable by all methods.

**-4%**

Type	Diam. rotor / stator mm	Material	PK	Cat. No.	Price	Now
					EUR	EUR
S 25 N - 18 G	12.7 / 18	PTFE, AISI 316L	1	9.571 119	<del>1.362,00</del>	<b>1.307,52</b>
S 25 N - 25 G	17.0 / 25	PTFE, AISI 316L	1	9.571 200	<del>1.741,00</del>	<b>1.671,36</b>
S 25 EC-T-C-18 G	12.7 / 18	AISI 316L, Keramik	1	4.684 824	<del>1.862,00</del>	<b>1.787,52</b>
S 25 EC-T-C-25 G	17 / 25	AISI 316L, Keramik	1	4.684 825	<del>1.922,00</del>	<b>1.854,72</b>



- New in assortment!  
- High quality



## Sample bags, TWIRL'EM ECOLO



For collecting, transporting and analysing liquid and solid samples. Integrated secure closure system with 2 round wires

- Sterile
- Biodegradable
- Contaminant-free
- Waterproof and airtight
- RNase, DNase and pyrogen free

**-15%**

Nominal capacity ml	Dimensions (W x H) mm	Thickness µm	Labeling	PK	Cat. No.	Price	
						EUR	Now EUR
650	114 x 229	63	-	500	4.699 848	<del>153,40</del>	<b>130,39</b>
930	140 x 229	76	-	500	4.699 849	<del>181,20</del>	<b>154,02</b>
2200	178 x 305	76	-	250	4.699 850	<del>122,40</del>	<b>104,04</b>
650	114 x 229	63	+	500	4.699 851	<del>169,00</del>	<b>144,42</b>
930	140 x 229	76	+	500	4.699 852	<del>208,40</del>	<b>177,14</b>
2200	178 x 305	76	+	250	4.699 853	<del>140,70</del>	<b>119,60</b>
230	76 x 178	63	-	500	4.699 854	<del>115,90</del>	<b>98,52</b>
650	114 x 229	63	-	500	4.699 855	<del>133,00</del>	<b>113,05</b>
930	140 x 229	76	-	500	4.699 856	<del>166,20</del>	<b>141,27</b>
2200	178 x 305	76	-	250	4.699 857	<del>112,30</del>	<b>95,46</b>
210	76 x 178	63	+	500	4.699 858	<del>127,30</del>	<b>108,21</b>
650	114 x 229	63	+	500	4.699 859	<del>154,20</del>	<b>131,16</b>
930	140 x 229	76	+	500	4.699 860	<del>191,20</del>	<b>162,52</b>
2200	178 x 305	76	+	250	4.699 861	<del>129,10</del>	<b>109,74</b>

## Sample bags, TWIRL'EM, suitable for cleanroom, without writing area



For collecting, transporting and analysing liquid and solid samples.

- Double-packed and sterilised
- Integrated secure closure system with 2 round wires
- \*Integrated secure closure system with 1 round wire and 1 flat wire, **heavy sample closure**
- Contaminant-free
- Waterproof and airtight
- RNase, DNase and pyrogen-free

**-15%**

Nominal capacity ml	Dimensions (W x H) mm	Thickness µm	PK	Cat. No.	Price	
					EUR	Now EUR
960	114 x 305	63	25	4.699 865	<del>14,50</del>	<b>12,33</b>
930	140 x 229	76	25	4.699 866	<del>14,20</del>	<b>12,07</b>
1400	140 x 305*	76	25	4.699 868	<del>16,10</del>	<b>13,69</b>
4000	254 x 305*	101	25	4.699 867	<del>28,60</del>	<b>24,31</b>

## Sample bags, TWIRL'Blue, with writing area



For collecting, transporting and analysing liquid and solid samples. The blue colour allows the bag to be identified quickly if dropped in the production line or on a floor. This can avoid foreign body contamination.

- Integrated secure closure system with 2 round wires
- Steril
- Contaminant-free
- Waterproof and airtight
- RNase, DNase and pyrogen-free

**-15%**

Nominal capacity ml	Dimensions (W x H) mm	Thickness µm	PK	Cat. No.	Price	
					EUR	Now EUR
650	114 x 229	63	500	4.699 863	<del>163,40</del>	<b>138,89</b>
5600	254 x 382	101	250	4.699 862	<del>225,20</del>	<b>191,42</b>

Nominal capacity ml	Dimensions (W x H) mm	Thickness µm	PK	Cat. No.	Price	
					EUR	Now EUR
650	114 x 229	76	500	4.699 869	<del>169,40</del>	<b>143,99</b>
2200	178 x 305	76	250	4.699 870	<del>141,50</del>	<b>120,28</b>

## Sample bags, TWIRL'EM, extra heavy sample closure, without writing area



For collecting, transporting and analysing liquid and solid samples.

- Integrated secure closure system with 2 flat wires
- Sterile
- Contaminant-free
- Waterproof and airtight
- RNase, DNase and pyrogen-free

**-15%**

Nominal capacity ml	Dimensions (W x H) mm	Thickness µm	PK	Cat. No.	Price	
					EUR	Now EUR
8500	305 x 406	101	250	4.699 871	<del>229,20</del>	<b>193,97</b>
10000	305 x 457	101	250	4.699 872	<del>251,10</del>	<b>213,44</b>
11500	305 x 508	101	250	4.699 873	<del>331,40</del>	<b>281,69</b>
14500	305 x 610	101	250	4.699 874	<del>372,90</del>	<b>316,97</b>



## Sampling spoons, PS, sterile, individually packaged

**New**



Designed for precise sampling, this durable polystyrene (PS) spoon is ideal for handling sensitive materials in a laboratory or Industrial settings.

- Individually packaged
- Sterilised

**-15%**

Nominal capacity ml	Overall length mm	Colour	PK	Cat. No.	Price EUR	Now EUR
5	220	Rod	125	4.701 403	<del>52,10</del>	<b>44,29</b>
10	138	White	150	4.701 402	<del>30,90</del>	<b>26,27</b>

## Scoops FoodScoop, Stainless steel V2A (1.4301)



Seamless connection of scoop and hollow handle, therefore without crevices and edges.

- Smooth, highly polished surface.
- Especially sturdy model
- With handy suspension eyelet
- Food safe

**-10%**

Capacity ml	Width Scoop mm	Length Scoop mm	Overall length mm	PK	Cat. No.	Price EUR	Now EUR
100	60	120	215	1	6.254 785	<del>27,65</del>	<b>24,89</b>
200	75	140	230	1	6.252 363	<del>37,70</del>	<b>33,93</b>
250	85	155	245	1	6.254 786	<del>41,60</del>	<b>37,44</b>
350	100	180	290	1	6.242 476	<del>46,70</del>	<b>42,03</b>
500	130	220	350	1	6.072 181	<del>61,75</del>	<b>55,58</b>

## Disposable scoops for foodstuffs SteriPlast®, PS



Blue. The food scoop is ideal for powders, granulates and pastes. A special additive is added to the product material of the detectable scoops, which enables identification with the aid of metal detectors or X-rays. Individually packed, gamma-sterilized.

**-10%**

Description	Capacity ml	Overall length mm	PK	Cat. No.	Price EUR	Now EUR
Visual identification	25	141	10	6.284 552	<del>20,05</del>	<b>18,05</b>
Visual identification	50	160	10	6.284 553	<del>20,80</del>	<b>18,72</b>
Visual identification	100	205	10	6.284 554	<del>21,50</del>	<b>19,35</b>
Visual identification	150	216	10	6.284 555	<del>21,95</del>	<b>19,76</b>
Visual identification	250	232	10	6.284 556	<del>26,80</del>	<b>24,12</b>
Visual identification	500	280	10	6.284 557	<del>47,45</del>	<b>42,71</b>
Visual identification	1000	332	10	6.284 558	<del>73,10</del>	<b>65,79</b>
Detectable	2000	381	10	4.680 857	<del>84,55</del>	<b>76,10</b>

## Sample beakers, PP, sterile, with labeling field and graduation



The attached lid can be opened with one hand and fixed at a 90° angle. Condensate in the lid runs into an absorbing groove integrated into the lid.

- Suitable for deep freezing
- Food safe
- Autoclavable

**-10%**

Nominal capacity ml	Height mm	PK	Cat. No.	Price EUR	Now EUR
50	78	650	4.688 166	<del>316,15</del>	<b>284,54</b>
90	80	350	4.688 167	<del>200,10</del>	<b>180,09</b>
300	88	240	4.688 168	<del>371,70</del>	<b>334,53</b>

## Grinding mill, A11 basic



**IKA®**

Batch mill for 2 different grinding procedures: Impact grinding of hard, brittle or non-elastic grinding materials with a high-grade stainless steel beater. This beater can be used for a Mohs hardness up to 6 (incl. with delivery).

- Grinding chamber made of Tefcel (PTFE, glass fibre-reinforced) with stainless steel inlet (1.4571), useful volume 80 ml (incl. with delivery). For embrittlement of grinding materials with liquid nitrogen in the grinding chamber.
- Optionally, a 250 ml grinding chamber is available.

### Specifications

Motor rating input/output:	160/100 W
Speed:	28000 rpm (off load)
Chamber vol.:	80 ml
Power-on time ON/OFF:	1/10 min
Auto power off:	yes
Tangential speed:	53 m/sec.
Max. sample granule size:	10 mm
Dimensions (W x D x H):	85 x 85 x 240 mm
Weight:	1.5 kg
IP code:	IP 43
Supply requirements:	230 V, 50/60 Hz
Tested to DIN EN IEC 61010-1.	

**-12%**

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
A 11 basic	EU	1	9.737 801	<del>2,802,00</del>	<b>2,465,76</b>

Accessories please order separately.

## Mortars and pestles, Agate



Agate. Polished. Standard quality. Other sizes are available on request.

**-25%**

Capacity	Ext. diam.	Int. diam.	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
10	50	40	1	9.164 050	<del>73,00</del>	<b>55,43</b>
25	75	60	1	9.164 075	<del>114,50</del>	<b>85,88</b>
50	100	85	1	9.164 100	<del>274,60</del>	<b>205,95</b>
100	125	100	1	9.164 125	<del>548,80</del>	<b>411,60</b>

## Laboratory Blender Waring® 8011



Versatile laboratory mixer ideally suited for general laboratory work. Supplied either with a 1 L stainless steel container or a 1.2 L glass container.

Models 8010 EG/ES with a mechanical timer (3 minutes).

- Two velocity settings (18000 or 22000 rpm)
- Epoxy-coated motor housing
- Two-piece lid vinyl/styrene

**Scope of supply:** Mixer, container (stainless steel or glass) with handle and lid

**-20%**

Type	With	PK	Cat. No.	Price	Now
				EUR	EUR
8011EG	Glass container, 1.2 l	1	6.284 693	<del>1,020,00</del>	<b>824,00</b>
8011ES	Stainless steel container, 1 l	1	6.284 694	<del>1,154,00</del>	<b>923,20</b>

## LLG-Sample containers, PS/PP, with tamper-evident cap, LDPE/PP



White. Sturdy containers made of PS or PP. The tamper-evident closure enables the safe transport of samples.

- Food safe
- No-leak-proof

**-30%**

Nominal capacity	Ø with Cover	Height	Material	Material Lid	PK	Cat. No.	Price	Now
ml	mm	mm					EUR	EUR
40	36	52	PS	LDPE	10	9.402 350	<del>19,40</del>	<b>13,58</b>
100	58	58	PP	PP	10	9.402 353	<del>20,80</del>	<b>14,56</b>
250	64	95	PS	LDPE	10	9.402 356	<del>27,70</del>	<b>19,39</b>
1000	116	116	PP	PP	5	9.402 359	<del>33,00</del>	<b>23,10</b>

## Overgoggles uvex super OTG 9169

uvex



super f OTG



super OTG



super OTG

The super OTG and the super f OTG are equipped with this state-of-the-art lens technology. Alongside the tried and tested hingeless spectacles and highly flexible soft earpieces, a hinged design has been developed. The revolutionary new design of the super f OTG with hinge combines all the principles of contemporary spectacles with the advantages of state-of-the-art materials. Both designs are well-suited to any wearer situation, and can also be used as overspecs for prescription wearers.

Coating of the lens:

1. uvex supravision sapphire: excellent scratch and chemical resistance, 100% UV protection

2. uvex supravision excellence: excellent scratch and chemical resistance and easy to clean (nano clean hybrid)

**-30%**

Type	Colour	Lens	PK	Cat. No.	Price	Now
super f OTG (1)	black	PC transparent/ UV 2-1.2	1	6.252 619	<del>29,70</del>	<b>20,79</b>
super f OTG (2)	black/white	PC light brown 5-1.4	1	4.672 691	<del>36,30</del>	<b>25,41</b>
super OTG (2)	navy blue	PC transparent/ UV 2-1.2	1	6.234 320	<del>31,50</del>	<b>22,05</b>
super OTG (1)	navy blue	PC transparent/ UV 2-1.2	1	7.650 112	<del>29,10</del>	<b>20,37</b>
super OTG (1)	black	PC grey / UV 5-2.5	1	7.653 307	<del>31,30</del>	<b>21,91</b>
super OTG (1)	black	PC transparent/ UV 2-1.2	1	6.258 848	<del>29,10</del>	<b>20,37</b>

## Lens Cleaning Tissues 9963

uvex



- Suitable for all uvex lenses
- Silicone-free
- 100 individually sealed tissues in a box
- Incl. clip for wall mounting

Please order the wall mounting unit separately.

**-30%**

Description	PK	Cat. No.	Price	Now
Cleaning tissues 9963	100	6.200 654	<del>38,80</del>	<b>27,16</b>

## LLG-Disposable Gloves *strong*, Nitrile, Powder-Free

EN ISO 374-1 EN ISO 374-5 EN 421 EN 420

Type B



KTPO



VIRUS



A disposable, nitrile, heavy-walled protective glove offering enhanced resistance against many chemicals. It is a protective glove for applications with higher safety requirements but provides greater comfort in use than traditional chemical protective gloves.

- **Very sturdy - higher material thickness**
  - Tried and tested quality product made of nitrile - excellent resistance to skin irritants in foodstuffs
  - More resilience through special formulation
  - For single use in applications with an increased need for safety when handling chemicals
  - Free from phthalates/softeners and allergenic latex proteins
  - Easy to don and particularly skin-friendly through a special finishing process
  - Colour blue - suitable for areas subject to HACCP standards
- Cat. III low chemical resistance. AQL 1.5.**

According to EN ISO 374-1:2016/Type B, EN ISO 374-5:2016, EN 421, and EN 420 are Suitable for food handling.

You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

Glove shape:	flat with rolled edge (ambidextrous)
Material:	nitrile
Colour:	blue
Outside:	textured
Inside:	powder-free halogenated
Size/total length:	S, M, L, XL/med. 240 mm
Thickness (measured in double layer):	<b>0.22 mm</b>

**-24%**

Size	PK	Cat. No.	Price	Now
S	100	9.006 379	<del>25,00</del>	<b>18,90</b>
M	100	9.006 380	<del>25,00</del>	<b>18,90</b>
L	100	9.006 381	<del>25,00</del>	<b>18,90</b>
XL	90	9.006 382	<del>25,00</del>	<b>18,90</b>

## Disposable overshoes, PP



**New**

These overshoes made of hard-wearing polypropylene (PP) offer reliable protection for your footwear and help to maintain hygiene and prevent soiling.

- Universal size 38 x 16.5 cm
- Elasticated drawstring

Package	Sterile	PK	Cat. No.	Price
10 Pack(s) of 12 pcs	+	120	4.701 404	<b>33,80</b>
10 Pack(s) of 12 pcs	-	120	4.701 405	<b>23,40</b>
1 Pack(s) of 500 pcs	-	500	4.701 406	<b>69,80</b>

Photographic trays, PVC



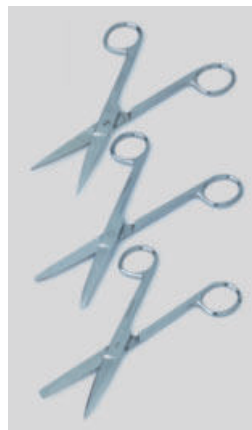
**Kartell**

With a ribbed base. Stackable.

Internal dimensions (W x D x H) mm	External dimensions (W x D x H) mm	PK	Cat. No.	Price	
				EUR	EUR
200 x 150 x 45	245 x 195 x 50	1	9.200 372	<del>21,60</del>	<b>15,12</b>
250 x 200 x 60	305 x 250 x 60	1	9.200 373	<del>28,10</del>	<b>19,67</b>
320 x 260 x 70	385 x 325 x 75	1	9.200 374	<del>44,40</del>	<b>31,08</b>
350 x 300 x 80	420 x 375 x 85	1	9.200 375	<del>57,30</del>	<b>40,11</b>
430 x 330 x 90	505 x 405 x 95	1	9.200 376	<del>78,10</del>	<b>54,67</b>
520 x 420 x 90	600 x 495 x 100	1	9.200 377	<del>111,40</del>	<b>77,98</b>
675 x 530 x 100	765 x 620 x 110	1	9.200 378	<del>194,80</del>	<b>136,36</b>

**-30%**

LLG-Scissors general purpose, stainless steel



Excellent grade polished stainless steel with straight form and close shanks.

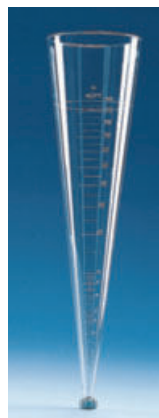
Available in 3 types:

- sharp/sharp points
- blunt/blunt points
- sharp/blunt points

**-25%**

Form	Length mm	PK	Cat. No.	Price	
				EUR	EUR
sharp - sharp	130	2	6.237 703	<del>16,20</del>	<b>12,15</b>
sharp - sharp	160	2	9.204 231	<del>17,14</del>	<b>12,86</b>
blunt - sharp	130	2	9.204 232	<del>15,72</del>	<b>11,79</b>
blunt - sharp	160	2	9.204 233	<del>17,14</del>	<b>12,86</b>
blunt - blunt	130	2	9.204 234	<del>15,72</del>	<b>11,79</b>
blunt - blunt	160	2	9.204 235	<del>17,14</del>	<b>12,86</b>

Sedimentation cone, plastic, SAN



**Kartell**

Imhoff pattern. DIN 12672. Transparent SAN (Styrene acrylonitrile). With a screw cap for draining the contents. Temperature-resistant up to max. 85 °C.

Graduations, ml:	Subdivisions, ml:
0 to 2	0.1
2 to 10	0.5
10 to 100	1.5
100 to 300	10
300 to 1000	50

**-30%**

Type	PK	Cat. No.	Price	
			EUR	EUR
With screw cap	1	9.304 280	<del>67,60</del>	<b>47,32</b>

Sedimentation cones, accessory stand, Acrylic/PP



Acrylic/PP. To hold two Imhoff sedimentation cones. Compact and easy to transport even when fully loaded.

**-30%**

Width mm	Length mm	Height mm	PK	Cat. No.	Price	
					EUR	EUR
150	300	294	1	9.304 281	<del>139,10</del>	<b>97,37</b>

Draining rack, PS



**Kartell**

Wall mounting, with a wide draining trough. Pegs can be inserted as required. Supplied with 72 pegs (15 mm diameter, 95 mm long), 11 small pegs (6 mm diameter, 95 mm long), drain tubing, and fittings for wall mounting.

Dimensions (L x W x H): 450 x 110 x 630 mm

**-30%**

Description	PK	Cat. No.	Price	
			EUR	EUR
Draining rack	1	9.003 240	<del>258,30</del>	<b>180,81</b>

Graduated jugs, PP, moulded graduations



Highly transparent. With a raised scale, spout and stable, easy-grip handle. Autoclavable at 121 °C (2 bar) according to DIN EN 285. Food-safe product according to regulation (EU) No. 10/2011. To preserve markings, do not clean at temperatures exceeding 60 °C. Conditionally autoclavable at 121 °C (2 bar) according to DIN EN 285.

**-20%**

Nominal capacity	Grad.	Ext. diam.	Height	PK	Cat. No.	Price	Now
ml	ml	mm	mm			EUR	EUR
250	5	74	120	12	4.672 398	<del>37,80</del>	<b>30,24</b>
500	10	92	140	12	4.672 399	<del>41,40</del>	<b>33,12</b>
1000	20	117	181	6	4.672 400	<del>39,10</del>	<b>33,28</b>
2000	50	152	213	6	4.672 401	<del>58,80</del>	<b>47,04</b>
3000	50	172	242	6	4.672 402	<del>81,00</del>	<b>64,80</b>
5000	100	204	270	6	4.672 403	<del>119,40</del>	<b>95,52</b>

LLG-Buckets, PP



White. With lid and tamper-evident closure. For transport, packaging and storage of foodstuffs, building materials and non-corrosive chemicals. Stability is guaranteed when filling up with material up to 80 °C.

**-25%**

Capacity	Diam.	Height	PK	Cat. No.	Price	Now
Litres	mm	mm			EUR	EUR
1	131	127	10	6.291 418	<del>16,00</del>	<b>12,68</b>
2	179	133	10	6.291 419	<del>35,00</del>	<b>26,93</b>
3	198	141	10	6.291 420	<del>45,10</del>	<b>33,83</b>
5	224	193	10	6.291 421	<del>57,40</del>	<b>43,05</b>
10	266	265	10	6.291 422	<del>92,20</del>	<b>69,15</b>

LLG-Lab Notebook



For recording research data, experimental procedures, and design ideas. Use these notebooks to keep your information safe and well-organised. Numbered, acid-free, grid pages include spaces for title, project number, book number, date, and witness signature. Lined notebooks feature college-ruled pages for easy report writing. The covers are waterproof and chemical-resistant. All notebooks contain periodic and conversion tables in the back. Admissible as court evidence when used as prescribed by law. Measures: 216 x 279 mm.

**-25%**

Type	Description	Colour	PK	Cat. No.	Price	Now
					EUR	EUR
Grid	100 pages	Black	1	9.050 750	<del>36,60</del>	<b>27,45</b>
Grid	200 pages	Blue	1	9.050 751	<del>47,80</del>	<b>35,85</b>
Lined	200 pages	Red	1	9.050 752	<del>48,50</del>	<b>36,38</b>

Laboratory Trolley clax Mobil comfort with Box



Stable, multi-use trolley with parking brake. Push-button collapsing/unfolding.

**Load capacity**

Total: 60 kg  
Upper shelf: 20 kg  
Lower shelf: 40 kg

**Dimensions and weight**

unfolded (L x W x H): 900 x 580 x 1020 mm  
collapsed (L x W x H): 710 x 550 x 190 mm  
Weight without box: 6.9 kg

**Folding box dimensions**

Inner dimensions (W x D x H): 335 x 495 x 258 mm  
Outer dimensions (W x D x H): 350 x 500 x 260 mm

**-25%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Laboratory Trolley clax Mobil comfort, incl. 1 clax folding box, 46 litres	1	9.148 100	<del>261,90</del>	<b>196,43</b>

Clax folding box, 46 litres

Sturdy folding box, made of high-quality plastic, for use with the Clax Mobil comfort laboratory trolley.

**-15%**

Nom. capacity	Dimensions (W x D x H)	Colour	PK	Cat. No.	Price	Now
	mm				EUR	EUR
46	380 x 540 x 270	Grey	1	9.148 099	<del>21,60</del>	<b>18,36</b>
46	380 x 540 x 270	Black	1	6.492 973	<del>20,17</del>	<b>17,14</b>

## Membrane filters, cellulose acetate



SARTORIUS



Type 111. Resistant to steam sterilisation up to 134 °C, or in dry heat up to 180 °C. Very low adsorption (important when filtering proteinaceous solutions). Suitable for particle removal and ultra cleaning of aqueous solutions, methanol, ethanol, high-grade alcohols and residue analysis of fuels and oils. The extractable content of these filters makes up <1% of their weight.

Other pore sizes and formats are available on request.

**-25%**

Diam.	Pore size	PK	Cat. No.	Price	Now
mm	µm			EUR	EUR
25	0.20	100	9.053 064	<del>109,00</del>	<b>81,75</b>
25	0.45	100	9.053 044	<del>109,00</del>	<b>81,75</b>
47	0.20	100	9.053 068	<del>146,00</del>	<b>109,50</b>
47	0.45	100	9.053 048	<del>146,00</del>	<b>109,50</b>
50	0.20	100	9.053 069	<del>157,00</del>	<b>117,75</b>
50	0.45	100	9.053 049	<del>157,00</del>	<b>117,75</b>

Other patterns are available on request.

## LLG Syringe Filters SPHEROS, Nylon



Hydrophilic membrane for filtration of aqueous and organic/aqueous liquids with medium polarity. Very good chemical resistance to esters, alkaline solutions and alcohols. With female Luer-Lock inlet and male Luer-Slip outlet. Suitable for all syringes with a Luer connection.

**-40%**

Filter diam.	Pore size	Housing	PK	Cat. No.	Price	Now
mm	µm				EUR	EUR
13	0.22	PP, pink	100	6.272 810	<del>93,00</del>	<b>55,80</b>
13	0.45	PP, pink	100	6.272 811	<del>93,00</del>	<b>55,80</b>
25	0.22	PP, pink	50	6.272 812	<del>71,40</del>	<b>42,84</b>
25	0.22	PP, pink	500	4.668 147	<del>714,00</del>	<b>428,40</b>
25	0.45	PP, pink	50	6.272 813	<del>71,40</del>	<b>42,84</b>
25	0.45	PP, pink	500	4.668 148	<del>714,00</del>	<b>428,40</b>

## LLG-Inline filters, PTFE



LLG-Inline filters with PP housing. The PTFE membrane is particularly suitable for filtration of aggressive chemicals, including acids and non-aqueous solutions. Also ideal for clarifying the filtration of organic solutions, sterile filtration of gases, as well as sterile aeration and deaeration.

- Multiple autoclavable at 121 °C for 20 minutes at 2 bar, max. 3 cycles
- High throughput with low-pressure drop
- For air and gases in both directions

**-40%**

Diam.	Pore size	PK	Cat. No.	Price	Now
mm	µm			EUR	EUR
50	0.22	20	4.685 658	<del>93,80</del>	<b>56,28</b>
50	0.45	20	4.685 659	<del>93,80</del>	<b>56,28</b>

## Filter paper, qualitative, Grade 3 hw, folded filters

SARTORIUS



**-25%**

Diam.	PK	Cat. No.	Price	Now
mm			EUR	EUR
125	100	9.049 403	<del>40,30</del>	<b>30,23</b>
150	100	9.049 404	<del>40,30</del>	<b>30,23</b>
185	100	9.049 405	<del>40,30</del>	<b>30,23</b>
240	100	9.049 406	<del>68,70</del>	<b>51,53</b>
270	100	9.049 407	<del>75,50</del>	<b>56,63</b>
320	100	9.049 408	<del>99,40</del>	<b>74,55</b>

Other diameters/formats are available on request.

## LLG-Funnels, PP



Ideal for easy filling of laboratory bottles and filtration of liquids.

- Good temperature and chemical resistance
- Autoclavable at 121 °C and 1.1 bar for 30 minutes

**-25%**

Funnel diam.	Shaft diam.	For filter paper diam. mm	Stem length mm	PK	Cat. No.	Price	Now
mm	mm		mm			EUR	EUR
40	6	55 - 70	40	20	9.251 185	<del>16,20</del>	<b>12,15</b>
60	8	70 - 90	60	20	9.251 186	<del>22,00</del>	<b>16,50</b>
80	8	125 - 150	80	20	9.251 187	<del>28,60</del>	<b>21,45</b>
100	10	150 - 185	100	20	9.251 188	<del>35,20</del>	<b>26,40</b>
120	16	185 - 240	120	10	9.251 189	<del>20,70</del>	<b>15,53</b>
150	16	240 - 270	150	10	9.251 190	<del>36,30</del>	<b>27,23</b>

Vial disposer Arnold/Marco, PP

- ! - Complete disposal of vials
- Lid protects against contamination

For the safe and quick disposal of HPLC vials. Thanks to the safety funnel with an extra large neck diameter, your vials fall easily through the opening without jamming or clogging the opening. The hinged lid safely holds back solvent vapours and other contaminants.

- For the disposal of large quantities of sample vials
- Connection for optional activated carbon filter available
- Low overall height, also suitable for safety storage cabinets (Marco)

Scope of supply: 10 l canister, safety funnel



Arnold



Marco



Type	Nom. capacity L	Dimensions (W x D x H) mm	Thread	Funnel diam. mm	PK	Cat. No.	Price EUR	Now EUR
Arnold	10	195 x 195 x 570	S90	185	1	6.328 027	269,00	269,00
Marco	10	180 x 180 x 450	S90	140	1	6.328 028	214,00	214,00

Exhaust Filter, PP

Lid with integrated ventilation openings and service life indicator. The filling of activated carbon is protected by two porous membranes made of PE. This allows an unobstructed flow of exhaust air, solvents are adsorbed by the activated carbon and only filtered air streams out.



Type	Life time	Neck thread	PK	Cat. No.	Price EUR	Now EUR
SMALL	3 months	GL	2	6.313 839	86,65	82,32
MEDIUM	6 months	14	2	6.313 840	143,87	136,68
LARGE	12 months	14	2	6.313 841	184,17	174,96

-5%

LLG Crimp Neck Vials ND11, small and wide opening (flat bottom)



Capacity ml	o.d. x Height mm	Colour	Form	PK	Cat. No.	Price EUR	Now EUR
1.5	11.6 x 32	clear	wide opening	100	6.291 635	13,10	10,48
1.5	11.6 x 32	amber	wide opening	100	6.263 047	14,60	11,68
1.5	11.6 x 32	amber, labeling field	wide opening	100	6.291 636	14,80	11,84
1.5	11.6 x 32	clear, labeling field	wide opening	100	6.290 019	13,00	10,40

-20%

LLG-Aluminium Crimp Seals ND11, ready assembled



Type	Caps	Septa	Hardness	Thickness mm	PK	Cat. No.	Price EUR	Now EUR
(1)	aluminium, silver, centre hole	Natural rubber red-orange / TEF transparent	60° shore A	1.00	100	9.003 441	12,50	10,00
(2)	aluminium, silver, centre hole	Natural rubber / Butyl red-orange / TEF transparent	45° shore A	1.00	100	7.060 469	14,70	11,76
(3)	aluminium, silver, centre hole	Silicone white / PTFE red	45° shore A	1.30	100	9.003 446	23,50	18,80
(4)	aluminium, silver, centre hole	PTFE virginal, white	53° shore D	0.25	100	4.001 559	16,70	13,36
(5)	aluminium, silver, centre hole	PTFE red / Silicone white / PTFE red	45° shore A	1.00	100	7.050 759	45,30	36,24
(6)	aluminium, silver, centre hole	Red Rubber / PTFE beige	45° shore A	1.00	100	6.291 637	15,70	12,56

-20%

## pH meter FiveEasy™ pH F20

FiveEasy™ benchtop meters provide high-quality pH/mV measurements with the simple click of a button.

- Large, easy to read and easy to understand display with all information visible at a glance
- Five self-explanatory buttons make operation simple and easy
- Electrode arm extension pole included

### Scope of supply:

Meter with CD operating instructions, QuickGuide, declaration of conformity, test certificate, power supply, plastic LE438 3-in-1 pH electrode, 1 each x 4.01 pH, 7.00 pH, 9.21 pH buffer sachets.



### Specifications

#### Measuring range (Accuracy)

pH:	0.00 ... 14.00 pH
mV:	-2000 ... 2000 mV (±1 mV)
Temperature:	0 ... 100 °C (0.5 °C)
Input:	BNC, Cinch (NTC 30 kΩ)
Temperature compensation:	ATC and MTC
Power supply:	100 ... 240 V, 50/60 Hz/12 V DC
Calibration:	3 points, linear, 4 predefined buffer groups

Type	PK	Cat. No.	Price	Now
F20-Standard Kit	1	6.280 101	<del>740,00</del>	<b>629,00</b>

**-15%**

## LLG-Universal indicator paper, rolls



For the determination of pH values. Plastic dispensing reel with 1 roll of 5 m.

Range	PK	Cat. No.	Price	Now
pH			EUR	EUR
1 ... 14	10	4.667 570	<del>93,30</del>	<b>55,98</b>
1 ... 11	10	4.667 572	<del>93,30</del>	<b>55,98</b>

**-40%**

## Multi-parameter measuring device Liquiline Mobile CML18, Set 3 and Set 5

Endress+Hauser People for Process Automation



- Complete Set
- Portable Multimeter
- Digital Memosens Sensors
- Easy Change of Sensors

Mobile hand-held measuring device for measuring various parameters (pH/ORP, conductivity, temperature, dissolved oxygen) with digital Memosens sensors. All sensor data and measured values can be transferred to tablets or smartphones via a secure Bluetooth connection. With the free Memobase Pro app, all sample measurements can be traceably stored, documented, and visualised and sensors can be calibrated and adjusted using a guided procedure.

- Measurement of pH, conductivity, and oxygen in one device
- Small, handy design
- All calibration data, history, and measured values are stored directly in the electrode
- Data logger function for storing over 10000 measured values with time, date, and sample ID stamp
- True Plug & Play with pre-calibrated Memosens sensors enables quick changeover between parameters

The device can either be charged inductively via a pad (not included) or with the supplied USB data and charging cable.

**Scope of supply SET 3:** Multi-parameter measuring device, USB data and charging cable, pH electrode CPL51E

**Scope of supply SET 5:** Multi-parameter measuring device, protection cover, USB data and charging cable, pH electrode CPL51E, measuring cable CYK20 (1.5 m), field case

Type	External dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
CML18 (Set 3)	54 x 47 x 84	1	4.696 931	<del>1.097,78</del>	<b>988,00</b>
CML18 (Set 5)	54 x 47 x 84	1	4.699 886	<del>1.425,00</del>	<b>1.282,50</b>

**-10%**

## Storage solutions for pH-electrodes



Storage solution. Designed to extend the useful life of pH electrodes.

Capacity	PK	Cat. No.	Price	Now
ml			EUR	EUR
100	1	9.040 945	<del>23,00</del>	<b>20,70</b>
500	1	9.040 944	<del>84,20</del>	<b>75,78</b>
1000	1	6.226 124	<del>142,30</del>	<b>128,07</b>

**-10%**



### Conductivity meter ProfiLine Cond 3310



Complete Set

The ProfiLine pocket conductivity meter has a waterproof (IP 67) housing with a completely sealed silicone membrane keypad with tactile feedback. The device has a backlit graphic display and menu control. A selection of application-specific conductivity cells covers all measuring tasks.

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. Wide range of conductivity cells attachable. GLP-supporting functions, enhanced choice of cell constants, automatic and manual temperature compensation (which can be switched off) with linear and non-linear functions for pure water and natural waters acc. to EN 27888.

**Scope of supply:** Case set including conductivity probe TetraCon 325 and accessories.

**Specifications:**

Measuring ranges/Resolution  
 Conductivity: as Cond 3110, but additionally with  
 0.00 µS/cm ... 19.99 µS/cm (when K=0.1 cm<sup>-1</sup>)  
 0.000 µS/cm ... 1.999 µS/cm (when K=0.01 cm<sup>-1</sup>)  
 TDS: 0 ... 1999 mg/l, 0.0 ... 199.9 g/l  
 Spec. resistance: 0.0 ... 999 MΩ/cm  
 Memory: 5000 records (measured value, temperature, date, time, ID)

Type	PK	Cat. No.	Price
Cond 3310 Set 1	1	9.774 400	<b>EUR 1.335,91</b>

### LLG-Electrode stand for 3 electrodes



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

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

**-15%**

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

### Conductivity standards, ISO 17034



Aqueous-based conductivity standards for calibration of conductivity sensors, quality control, method validation and instrument qualification.

- Tested and ISO 17034 certified at 25 °C
- Traceability according to N.I.S.T.
- High accuracy of ±1% at 25 °C
- Supplied in 500 ml HDPE bottles

**-15%**

Type	PK	Cat. No.	Price	Now
µS/cm			EUR	EUR
20	1	4.695 194	<del>276,73</del>	<b>235,22</b>
50	1	4.695 198	<del>276,73</del>	<b>235,22</b>
84	1	4.695 201	<del>70,29</del>	<b>59,75</b>
100	1	4.695 190	<del>276,73</del>	<b>235,22</b>
147	1	4.695 193	<del>70,29</del>	<b>59,75</b>
200	1	4.695 195	<del>276,73</del>	<b>235,22</b>
500	1	4.695 199	<del>276,73</del>	<b>235,22</b>
1000	1	4.695 191	<del>276,73</del>	<b>235,22</b>
1413	1	4.695 192	<del>70,29</del>	<b>59,75</b>
2000	1	4.695 196	<del>276,73</del>	<b>235,22</b>
3000	1	4.695 197	<del>276,73</del>	<b>235,22</b>
5000	1	4.695 200	<del>276,73</del>	<b>235,22</b>
10000	1	4.695 189	<del>276,73</del>	<b>235,22</b>

### IDS conductivity cell probes TetraCon® 925



For IDS conductivity meter



For connection to **WTW IDS measuring instruments.**

Intelligent digital 4-pole cell with integral temperature sensor. Automatical transfer of the cell constant. Cable length 1.5 metres. Measuring range: 1 µS/cm to 2 S/cm.

Electrode	Shaft	Cell constant	Length	PK	Cat. No.	Price
Graphite	Epoxy resin	K = 0.475	mm 120	1	7.653 077	<b>EUR 620,06</b>

## Wireless thermometer XENA HOME



XENA HOME

Wireless thermometer for monitoring the outdoor temperature and indoor climate with temperature and humidity. The outdoor temperature is measured wirelessly via the supplied temperature transmitter. The range is 100 m at a transmission frequency of 433 MHz. Up to 3 temperature transmitters can be linked to the base station.

- Radio-controlled clock with entire date, time zone correction  $\pm 12$  hours
- Highest and lowest values are saved with time and date, an automatic reset can be set
- For standing or wall mounting
- Additional temperature transmitters can be ordered separately with article number 6.521 430.

**Scope of supply:** Base station, temperature transmitter

**Please order batteries separately.**

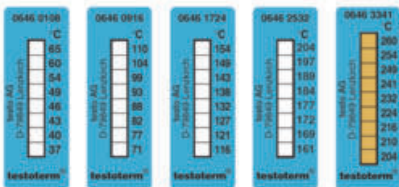
### Specifications

Relative int. humidity:	10 ... 99%
Int. temperature:	0 ... 50 °C
Ext. temperature:	-40 ... 60 °C
Dimensions (W x D x H):	82 x 27 x 140 mm
Weight:	128 g
Battery/rechargeable battery:	2 x 1.5 V, AA

**-20%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
XENA HOME	1	6.521 429	<del>32,00</del>	<b>25,60</b>
Temperature transmitter with cable sensor	1	6.521 430	<del>12,90</del>	<b>10,24</b>

## 8-step irreversible temperature strips testoterm®



Strips for 8 temperatures. 5 types cover the measuring range 37 to 260 °C, each strip displays 8 different temperatures. Each strip measures 50 x 18 mm.

**-10%**

Measuring range °C	PK	Cat. No.	Price	Now
			EUR	EUR
37 ... 65	10	9.246 002	<del>31,00</del>	<b>27,90</b>
71 ... 110	10	9.246 003	<del>31,00</del>	<b>27,90</b>
116 ... 154	10	9.246 004	<del>31,00</del>	<b>27,90</b>
161 ... 204	10	9.246 005	<del>31,00</del>	<b>27,90</b>
204 ... 260	10	9.246 006	<del>31,00</del>	<b>27,90</b>

## Laboratory thermometer LT-105, with glass bottle



Ergonomically shaped laboratory thermometer with alarm function for monitoring the temperature.

- MAX/MIN function
- Hi-Lo alarm
- Cable probe (external sensor) with approx. 1 m cable
- °C/°F switchable
- With calibration certificate at -18 °C and 4 °C

**Scope of supply:** Laboratory thermometer with cable probe in a 30 ml glass bottle. Incl. Glysofor L sachet for self-filling, 1 x AAA battery, operation manual

### Specifications

Int. temperature:	-10 ... 50 °C
Ext. temperature:	-50 ... 70 °C
Resolution:	0.1 °C
Accuracy:	$\pm 1$ °C
Sensor ( $\varnothing$ x L):	5 x 25 mm
Cable length:	1 m
Battery/rechargeable battery:	1 x AAA battery

Type	PK	Cat. No.	Price
			EUR
LT-105	1	4.691 794	<b>27,66</b>

## Disposable data logger TempLOG TS60



Ideal for low-cost temperature monitoring of transports. For evaluation, the data logger is connected to the USB interface and a PDF report is generated automatically.

- 60 days runtime
- 10000 measurements every 10 minutes
- LED Alarm display
- Inclusive certificate
- Food-safe according to HACCP
- Compliant to EN12830 S,T,C,D,1 and GDP

### Specifications

Temperature range:	-30 ... 60 °C
Accuracy:	$\pm 0.5$ °C at -20 °C ... 40 °C/ $\pm 1.0$ °C in remaining range
Resolution:	0.1 °C
Data memory:	10000 measurements
Recording cycle:	60 days
Sampling interval:	10 minutes
Shelf life:	24 months
Dimensions (L x W x H):	69 x 33 x 5 mm
Weight:	10 g
IP code:	IP 67

Type	PK	Cat. No.	Price
			EUR
TempLOG TS60	1	4.684 342	<b>8,38</b>

## Digital refractometer RFM700



Robust, fully automated measuring device with °Brix scale and automatic temperature compensation to 20 °C following ICUMSA for demanding applications in the food, sugar, and beverage industries. The refractometer can be connected to a printer or laboratory 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)
- Alphanumeric keypad
- "Hands-free" auto-sense measurement
- Time-delayed measurement
- Flat prism surface facilitates cleaning
- Wide beam scan for non-homogeneous samples
- USB (A), USB (B), and Ethernet interface

### Specifications

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

**-8%**

Type	Measuring range	Accuracy	PK	Cat. No.	Price	Now
					EUR	EUR
RFM712-M	0 ... 50 °Brix 1.33 ... 1.42 RI	±0.1 °Brix ±0.0001 RI	1	4.694 483	<del>5.552,73</del>	<b>5.108,51</b>
RFM732-M	0 ... 100 °Brix 1.33 ... 1.54 RI	±0.1 °Brix ±0.0001 RI	1	4.694 484	<del>7.933,06</del>	<b>7.298,42</b>
RFM742-M	0 ... 100 °Brix 1.33 ... 1.54 RI	±0.04 °Brix ±0.00005 RI	1	6.317 586	<del>9.521,32</del>	<b>8.759,61</b>

## LLG-uniREFRACTO 5 pro



LLG-uniREFRACTO 5 pro is a compact digital 3-scale handheld refractometer for measuring, e.g. Brix and refractive index of liquids. Two scales are pre-set to 0 - 95% Brix and 1.33 - 1.54 RI, the third scale can be freely selected from more than 45 different scales, including Brix, refractive index, AdBlue®, °Baume, °Butyro, Ethylene Glycol%, Calcium Chloride% and specific gravity. The operation is quick and easy, calibration can simply be done with distilled water. The waterproof housing (IP 65) allows cleaning under running water.

- Easy switching between the three scales
- 4-digit LCD display
- Automatic temperature correction
- Sample plate made of stainless steel

**Scope of supply:** Refractometer, protective cover

### Specifications

Resolution: 0.1% Brix/0.0001 RI  
 Accuracy: ±0.2% Brix/±0.0003 RI  
 Operating temperature: 5 ... 40 °C  
 Measuring temperature sample: 5 ... 80 °C  
 Rel. Humidity: < 95%  
 Dimensions (W x D x H): 120 x 55 x 35 mm  
 Weight: 180 g  
 Power supply: 2 x AAA/LR03  
 IP code: IP 65  
 Warranty: 3 years

**-20%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-uniREFRACTO 5 pro	1	6.263 632	<del>411,20</del>	<b>328,96</b>

## Sucrose (Brix) Standards



Certified stabilized Sucrose (Brix) Standards.

- ISO 17025 accredited
- Uncertainty of measurement of 0.11% for all Brix values at 20 °C
- Equivalent Nominal Refractive Index values from ICUMSA published tables reported on the Certificate of Analysis
- Compatible with any brand of Refractometer
- 12-month shelf life
- Provided in high-quality HDPE 15 ml dropper bottles

**-15%**

Brix	Refractive Index at 20 °C	PK	Cat. No.	Price	Now
%				EUR	EUR
0	1.332986 nD	1	6.264 212	<del>92,10</del>	<b>78,29</b>
5	1.340264 nD	1	6.265 876	<del>92,10</del>	<b>78,29</b>
10	1.347824 nD	1	6.257 923	<del>92,10</del>	<b>78,29</b>
15	1.355679 nD	1	6.263 260	<del>92,10</del>	<b>78,29</b>
20	1.363842 nD	1	6.264 889	<del>92,10</del>	<b>78,29</b>
30	1.381149 nD	1	6.258 368	<del>92,10</del>	<b>78,29</b>
40	1.399860 nD	1	7.660 408	<del>92,10</del>	<b>78,29</b>
50	1.420087 nD	1	6.258 369	<del>92,10</del>	<b>78,29</b>
60	1.441928 nD	1	6.265 875	<del>92,10</del>	<b>78,29</b>

## Volumetric flasks, borosilicate glass 3.3, class A, blue graduated, with PE stoppers, coated



**ISOLAB**  
Laborgeräte GmbH

The flasks are coated with a specially formulated coating that holds the broken parts together in case of breakage.

- Conformity certified, with batch certificate
- DIN EN ISO 1042
- Calibrated to contain (IN)

**-25%**

Nominal capacity ml	Joint size (NS)	PK	Cat. No.	Price	Now
				EUR	EUR
5	10/19	2	4.678 019	<del>58,50</del>	<b>43,88</b>
10	10/19	2	4.678 020	<del>59,40</del>	<b>44,55</b>
20	10/19	2	4.678 021	<del>64,50</del>	<b>48,38</b>
25	10/19	2	4.678 022	<del>69,70</del>	<b>52,28</b>
25	12/21	2	4.678 023	<del>70,80</del>	<b>53,10</b>
150	14/23	2	4.678 028	<del>121,20</del>	<b>90,90</b>
250	14/23	2	4.678 030	<del>149,20</del>	<b>111,90</b>
300	14/23	2	4.678 031	<del>150,20</del>	<b>112,65</b>
400	19/26	2	4.678 032	<del>174,10</del>	<b>130,58</b>

## Volumetric trapezoidal flasks, borosilicate glass 3.3, class A, blue graduations



**BLAUBRAND**

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

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

**-25%**

Nominal capacity ml	Tolerance ± ml	Joint size (NS)	PK	Cat. No.	Price	Now
					EUR	EUR
1	0.025	7/16	2	4.680 322	<del>43,30</del>	<b>32,48</b>
2	0.025	7/16	2	4.680 323	<del>43,30</del>	<b>32,48</b>
5	0.025	7/16	2	4.680 324	<del>43,30</del>	<b>32,48</b>
10	0.04	10/19*	2	4.680 325	<del>44,30</del>	<b>33,23</b>
20	0.04	10/19	2	4.680 326	<del>46,60</del>	<b>34,95</b>
25	0.04	10/19	2	4.680 327	<del>46,60</del>	<b>34,95</b>
50	0.06	12/21	2	4.680 328	<del>48,50</del>	<b>36,38</b>

\* Wide neck version

## LLG-Measuring cylinders, borosilicate glass 3.3, tall form, class A



**LLG**  
LABWARE

Tall form. Calibrated to contain IN. Conformity certified with batch ID.

- DIN ISO 4788
- With a hexagonal base and spout
- Blue Graduation

**-25%**

Capacity ml	Graduation	Tolerance ± ml	PK	Cat. No.	Price	Now
					EUR	EUR
5	0.1	0.05	2	4.686 202	<del>19,60</del>	<b>14,70</b>
10	0.2	0.10	2	4.686 203	<del>19,60</del>	<b>14,70</b>
25	0.5	0.25	2	4.686 204	<del>20,80</del>	<b>15,60</b>
50	1.0	0.50	2	4.686 205	<del>22,20</del>	<b>16,65</b>
100	1.0	0.50	2	4.686 206	<del>26,50</del>	<b>19,88</b>
250	2.0	1.00	2	4.686 207	<del>42,50</del>	<b>31,88</b>
500	5.0	2.50	2	4.686 208	<del>58,80</del>	<b>44,10</b>
1000	10.0	5.00	1	4.686 209	<del>88,10</del>	<b>28,58</b>
2000	20.0	10.00	1	4.686 210	<del>64,70</del>	<b>48,53</b>

## Graduated pipettes, Class AS, AR-glas®, blue graduation, type 2



**BLAUBRAND**

All BLAUBRAND® graduated pipettes are supplied with batch numbers and one batch certificate per manufacturer's outer pack.

- DIN EN ISO 835
- DE-M marking
- Marks and inscriptions in high-contrast blue enamel
- Calibrated to deliver (TD, EX)
- Waiting time 5 seconds

**-25%**

Volume ml	Graduation	Tolerance ± ml	Overall length ± 10 mm	PK	Cat. No.	Price	Now
						EUR	EUR
0.5	0.01	0.006	360	12	4.689 247	<del>90,60</del>	<b>67,95</b>
1	0.01	0.007	360	12	4.689 248	<del>71,40</del>	<b>53,55</b>
2	0.02	0.01	360	12	4.689 250	<del>71,40</del>	<b>53,55</b>
2	0.1	0.01	360	12	4.689 251	<del>71,40</del>	<b>53,55</b>
5*	0.05	0.03	360	12	4.689 252	<del>85,80</del>	<b>64,35</b>
10*	0.1	0.05	360	12	6.322 138	<del>85,80</del>	<b>64,35</b>
20*	0.1	0.1	360	6	4.689 244	<del>87,60</del>	<b>65,70</b>
50*	0.1	0.2	450	6	4.689 246	<del>142,20</del>	<b>106,65</b>

\* Cotton plugged

## Bottle-top dispenser Dispensette® Analog S

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

- Discharge tube, with and without recirculation valve
- Minimal force needed to operate - especially with high-volume devices
- Autoclavable (121 °C)
- Easy to calibrate and adjust to comply with ISO 9001 and GLP guidelines
- Easy to disassemble for cleaning
- DE-M marking
- Analog volume display
- Quickly adjustable dosing volume

Red color code. Wide range of applications, ideal for dispensing aggressive reagents, e.g. concentrated bases and acids such as H<sub>3</sub>PO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>. (except as HCl, HNO<sub>3</sub> and HF), saline solutions and a variety of organic solvents. Incl. performance certificate.

### Included items:

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



**-5%**

Volume	Grad.	Accuracy max. vol.	Precision max. vol.	Recycle valve	PK	Cat. No.	Price	Now
ml	ml	(± R%)	(≤ CV%)				EUR	EUR
0.1 - 1	0.02	0.6	0.2	without	1	9.284 380	<del>343,10</del>	325,95
0.1 - 1	0.02	0.6	0.2	with	1	9.284 381	<del>395,50</del>	375,73
0.2 - 2	0.05	0.5	0.1	without	1	9.284 459	<del>343,10</del>	325,95
0.2 - 2	0.05	0.5	0.1	with	1	9.284 462	<del>395,50</del>	375,73
0.5 - 5	0.10	0.5	0.1	without	1	9.284 384	<del>343,10</del>	325,95
0.5 - 5	0.10	0.5	0.1	with	1	9.284 385	<del>395,50</del>	375,73
1 - 10	0.20	0.5	0.1	without	1	9.284 386	<del>343,10</del>	325,95
1 - 10	0.20	0.5	0.1	with	1	9.284 387	<del>395,50</del>	375,73
2.5 - 25	0.50	0.5	0.1	without	1	9.284 388	<del>448,70</del>	426,27
2.5 - 25	0.50	0.5	0.1	with	1	9.284 389	<del>502,40</del>	477,28
5 - 50	1.00	0.5	0.1	without	1	9.284 390	<del>493,20</del>	468,54
5 - 50	1.00	0.5	0.1	with	1	9.284 391	<del>534,90</del>	508,16
10 - 100	1.00	0.5	0.1	without	1	9.284 392	<del>664,00</del>	630,80
10 - 100	1.00	0.5	0.1	with	1	9.284 393	<del>709,50</del>	674,03

## Single channel microliter pipettes Acura® manual 825, variable.

With variable volume adjustment.



Ergonomic and lightweight

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

**-15%**

Capacity	Increments	Accuracy max. vol.	Precision max. vol.	PK	Cat. No.	Price	Now
µl	µl	(± R%)	(≤ CV%)			EUR	EUR
0.1 - 2	0.002	2.0	1.5	1	9.411 590	<del>277,50</del>	235,88
0.5 - 10	0.01	1.0	0.5	1	9.411 591	<del>277,50</del>	235,88
1 - 10	0.01	1.0	0.7	1	9.411 592	<del>260,00</del>	221,00
2 - 20	0.02	1.0	0.5	1	9.411 593	<del>260,00</del>	221,00
5 - 50	0.1	1.0	0.4	1	9.411 594	<del>260,00</del>	221,00
10 - 100	0.1	0.8	0.2	1	9.411 595	<del>260,00</del>	221,00
20 - 200	0.2	0.6	0.2	1	9.411 596	<del>260,00</del>	221,00
100 - 1000	1	0.5	0.2	1	9.411 597	<del>260,00</del>	221,00

## LLG-Pipette tips Low Retention, PP, sterile

LLG-Pipette tips with hydrophobic inner surfaces ensure maximum sample recovery and high-precision pipetting. Compatible with all common pipette brands.



Environmental friendly



- Colour-coded racks facilitate tip identification
- With volume graduation
- Metal-free
- DNase- and RNase-free
- Autoclavable

For research and development only.

**-40%**

Capacity	Length	Colour	Point style	PK	Cat. No.	Price	Now
µl	mm					EUR	EUR
10	31.2	Transparent	standard	960	4.694 457	<del>82,70</del>	49,62
10	45.8	Transparent	XL	960	4.694 458	<del>82,70</del>	49,62
200	53.4	Transparent	standard	960	4.694 459	<del>82,70</del>	49,62
1000	84.3	Transparent	standard	768	4.694 460	<del>84,80</del>	50,88

## LLG-Carboy, PP, with handles



LLG-Carboy with screw cap made of PP for storing and dispensing media, solutions and other liquids. The practical shoulder handle facilitates transport and pouring.

- With graduation
- Autoclavable
- Stable bottom with curved corners
- Leak-proof

**-15%**

Capacity	Dimensions (dia. x H)	Cap size	Neck diam.	PK	Cat. No.	Price	Now
l	mm		mm			EUR	EUR
10	249 x 376	83	65	1	4.692 534	<del>59,20</del>	<b>50,32</b>
20	285 x 518	83	65	1	4.692 535	<del>99,00</del>	<b>84,15</b>
50	376 x 665	83	65	1	4.692 536	<del>176,60</del>	<b>150,11</b>

## LLG-Wide mouth bottle, HDPE, rectangular



Space-saving, rectangular wide mouth bottle with sturdy, uniform wall construction. Ideal for easy filling, storage or transport of liquids, powders and granulates.

- With screw cap
- Very good chemical resistance to most acids, bases and alcohols
- Autoclavable
- Leak-proof

**-15%**

Capacity	Dimensions (W x D x H)	Cap size	Neck diam. int.	PK	Cat. No.	Price	Now
ml	mm		mm			EUR	EUR
125	39.4 x 60.0 x 97.3	28	21.1	12	4.692 551	<del>19,40</del>	<b>16,49</b>
250	54.0 x 75.5 x 112.0	38	28.8	12	4.692 552	<del>26,60</del>	<b>22,61</b>
500	64.7 x 100.0 x 140.6	48	38.0	12	4.692 553	<del>46,90</del>	<b>34,77</b>
1000	70.2 x 125.2 x 175.0	53	43.7	6	4.692 554	<del>77,00</del>	<b>39,95</b>

## Erlenmeyer flasks, narrow neck, DURAN®



DIN ISO 1773, with graduation and beaded rim. With retrace code (batch identification), certificate via Internet. Glass type 1/neutral glass according to USP/EP and JP. Autoclavable.

**-10%**

Capacity	Neck diam.	Bottom diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			EUR	EUR
25**	22	42	75	10	6.322 373	<del>66,00</del>	<b>59,40</b>
50	22	51	90	10	6.322 374	<del>66,00</del>	<b>59,40</b>
100	22	64	105	10	6.322 375	<del>66,00</del>	<b>59,40</b>
200*	34	79	131	10	6.322 376	<del>66,00</del>	<b>59,40</b>
250	34	85	145	10	6.322 377	<del>67,00</del>	<b>60,30</b>
300*	34	87	156	10	6.322 378	<del>77,00</del>	<b>69,30</b>
500	34	105	180	10	6.322 379	<del>89,00</del>	<b>80,10</b>
1000	42	131	220	10	6.322 380	<del>151,00</del>	<b>135,90</b>
2000	50	166	280	10	6.322 381	<del>287,00</del>	<b>258,30</b>

\* Not to DIN, \*\*without retrace code

## Erlenmeyer flasks DURAN® Super Duty, wide neck



With approximate graduations. Reinforced, sturdy rim and increased mechanical strength for heavy duty. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable.

**-10%**

Capacity	Neck diam.	Bottom diam.	Height	PK	Cat. No.	Price	Now
ml	mm	mm	mm			EUR	EUR
100	34	64	105	1	9.141 280	<del>12,70</del>	<b>11,43</b>
250	50	85	140	1	9.141 281	<del>13,90</del>	<b>12,51</b>
500	50	105	175	1	9.141 282	<del>16,60</del>	<b>14,94</b>
1000	50	131	220	1	9.141 283	<del>25,20</del>	<b>22,68</b>

## Wide-mouth bottles with GLS 80® neck, DURAN®, clear, with screw cap



Laboratory bottle with GLS 80® wide neck (80 mm diameter), autoclavable and up to 500 °C temperature resistant. Neutral/Type 1 glass acc. to USP/EP. With Retrace code (Batch identification). Certificate available via the Internet. With PP screw cap and pouring ring (autoclavable and temperature resistant up to 140 °C).

**-10%**

Capacity	Diam.	Height without closure	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
250	95	105	1	9.071 896	<del>18,40</del>	<b>16,56</b>
500	101	152	1	9.284 510	<del>24,40</del>	<b>21,96</b>
1000	101	222	1	9.284 511	<del>30,20</del>	<b>27,18</b>
2000	136	252	1	9.284 512	<del>58,00</del>	<b>52,20</b>
5000	182	314	1	9.284 513	<del>191,30</del>	<b>172,17</b>



LLG-Separating funnel acc. to Squibb, borosilicate glass 3.3



Separating funnel acc. to Squibb with PTFE stopcock.

- DIN ISO 4800
- With standard ground joint and stopper
- White Graduation

Nominal capacity ml	Bore mm	Ground size NS	PK	Cat. No.	Price	
					EUR	Now EUR
50	2.5	19/26	1	4.686 263	<del>42,70</del>	<b>34,16</b>
100	2.5	19/26	1	4.686 264	<del>44,30</del>	<b>35,44</b>
250	4	29/32	1	4.686 265	<del>48,30</del>	<b>38,64</b>
500	4	29/32	1	4.686 266	<del>53,70</del>	<b>42,96</b>
1000	6	29/32	1	4.686 267	<del>75,10</del>	<b>60,08</b>
2000	6	29/32	1	4.686 268	<del>101,30</del>	<b>81,04</b>

Pear shape flasks with standard ground joint, borosilicate glass 3.3



With standard ground joint and white inscription.

Nominal capacity ml	Dimensions (dia. x H) mm	Ground size NS	PK	Cat. No.	Price	
					EUR	Now EUR
10	31 x 75	14/23	1	4.686 145	<del>5,60</del>	<b>4,48</b>
25	42 x 90	14/23	1	4.686 146	<del>6,60</del>	<b>5,28</b>
50	51 x 100	14/23	1	4.686 147	<del>8,20</del>	<b>6,56</b>
50	51 x 100	29/32	1	4.686 150	<del>13,80</del>	<b>11,04</b>
100	64 x 130	14/23	1	4.686 148	<del>9,50</del>	<b>7,60</b>
100	64 x 130	29/32	1	4.686 151	<del>17,70</del>	<b>14,16</b>
250	85 x 150	14/23	1	4.686 149	<del>16,90</del>	<b>13,52</b>

LLG-Splash heads, straight, borosilicate glass 3.3



Straight, with standard ground cone and socket.

Cone	Socket	PK	Cat. No.	Price	
				EUR	Now EUR
NS	NS			EUR	EUR
14/23	14/23	2	4.686 184	<del>47,20</del>	<b>37,76</b>
29/32	29/32	1	4.686 185	<del>29,20</del>	<b>23,36</b>

LLG-Round bottom flasks with standard ground joint, borosilicate glass 3.3



With standard ground joint and white inscription. According to DIN ISO 4797.

Capacity ml	Ground size NS	Height mm	PK	Cat. No.	Price	
					EUR	Now EUR
50	14/23	90	2	4.686 126	<del>13,10</del>	<b>10,48</b>
50	19/26	90	2	4.686 127	<del>13,10</del>	<b>10,48</b>
50	24/29	90	2	4.686 128	<del>13,80</del>	<b>11,04</b>
100	14/23	105	2	4.686 130	<del>13,20</del>	<b>10,56</b>
100	19/26	105	2	4.686 131	<del>13,20</del>	<b>10,56</b>
100	24/29	105	2	4.686 132	<del>14,20</del>	<b>11,36</b>
250	19/26	140	2	4.686 136	<del>19,00</del>	<b>15,20</b>
250	24/29	140	2	4.686 135	<del>19,00</del>	<b>15,20</b>
500	24/29	163	2	4.686 137	<del>27,10</del>	<b>21,68</b>
500	45/40	163	2	4.686 139	<del>40,10</del>	<b>32,08</b>
1000	24/29	200	1	4.686 140	<del>18,50</del>	<b>14,80</b>
1000	45/40	200	1	4.686 142	<del>29,00</del>	<b>23,20</b>
2000	45/40	240	1	4.686 144	<del>46,60</del>	<b>37,28</b>

## Cleanroom sword CR/A



Flexible holder for cleaning hard-to-reach areas and narrow gaps.

- Autoclavable
- ClinoConnect Lock handle
- Locking mechanism
- Cleaning of hard-to-reach areas and narrow interstitial spaces
- Material handle: polyamide, glass fibre reinforced
- Material fin: Plastic Purell, FE silicon manganese wire

Dimensions (D x W) mm	PK	Cat. No.	Price EUR	<b>-10%</b>
				<b>Now</b> EUR
30 x 650	1	4.692.744	<del>70,50</del>	<b>63,45</b>

## Disposable cover for cleanroom sword CR/A



Cleaning hard-to-reach areas. Autoclavable.

Dimensions (D x W) mm	PK	Cat. No.	Price EUR	<b>-10%</b>
				<b>Now</b> EUR
500 x 40	5	4.692.745	<del>25,00</del>	<b>31,50</b>
500 x 40	5	4.692.746	<del>25,00</del>	<b>22,50</b>

## 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 10<sup>6</sup> Ohm
- Certified for class-5 clean rooms acc. to DIN EN ISO 14644-1
- 5 years warranty

Seat height adjustment mm	PK	Cat. No.	Price EUR	<b>-5%</b>
				<b>Now</b> EUR
510-630	1	4.661.513	<del>696,00</del>	<b>661,20</b>

## Cleanroom Wipes ASPURE, polyester



Extremely low particle number and evaporation residues. Laser-cutting techniques minimise the formation of dust and lint on cutting edges. The use of polyester long fibres prevents the generation of lint.

- Knitted, made of 100% polyester
- Lasercut
- Cleaned with ultrapure water
- Double packed

Dimensions mm	Cleanroom Class	Package contents	PK	Cat. No.	Price EUR	<b>-35%</b>
						<b>Now</b> EUR
229 x 229	ISO 5	1 x 150 pieces	150	4.659.070	<del>41,30</del>	<b>26,85</b>



LLG-Laboratory and hygienic tissues, 2-ply, 150 wipes



Laboratory and hygienic tissues in dispenser box

- Contains 150 white, double-ply tissues, 210 x 220 mm
- Highly absorbent and ultra-soft
- For sensitive application areas

Carton of 30 boxes with 150 wipes

Wall Mount, wire, white-coated with wall mounting material for packaging up to 70 mm depth, please order separately.

Package contents	PK	Cat. No.	-22%	
			Price	Now
			EUR	EUR
Carton of 30 boxes with 150 wipes	30	9.413 220	<del>63,50</del>	<b>49,53</b>

Disposable Towel Rolls



Description	Package contents	PK	Cat. No.	-10%	
				Price	Now
			EUR	EUR	
nature, 1-ply	6 rolls with 840 tears	6	7.659 047	<del>41,90</del>	<b>37,71</b>
blue, 2-ply	6 rolls with 395 tears	6	7.659 048	<del>48,80</del>	<b>43,92</b>
nature, 2-ply	10 rolls with 142 tears	10	7.670 997	<del>35,40</del>	<b>31,86</b>

Hand brush, PP



- Soft bristles
- To remove fine particles
- Food-safe
- For colour coding
- Autoclavable

Bristle length mm	Overall length mm	Colour	PK	Cat. No.	-5%	
					Price	Now
					EUR	EUR
50	330	green	1	4.666 176	<del>10,00</del>	<b>9,50</b>
50	330	blue	1	4.666 177	<del>10,00</del>	<b>9,50</b>
50	330	red	1	4.666 178	<del>10,00</del>	<b>9,50</b>
50	330	white	1	4.666 179	<del>10,00</del>	<b>9,50</b>
50	330	yellow	1	4.666 180	<del>10,00</del>	<b>9,50</b>

Dustpan, PP



- Ergonomically designed
- Food-safe
- For colour coding
- Autoclavable

Length mm	Colour	PK	Cat. No.	-5%	
				Price	Now
				EUR	EUR
330	green	1	4.666 171	<del>11,90</del>	<b>11,31</b>
330	blue	1	4.666 172	<del>11,90</del>	<b>11,31</b>
330	red	1	4.666 173	<del>11,90</del>	<b>11,31</b>
330	white	1	4.666 174	<del>11,90</del>	<b>11,31</b>
330	yellow	1	4.666 175	<del>11,90</del>	<b>11,31</b>

## BOD measurement system OxiTop®-i IS 6/12



- Easy to use
- For 6 or 12 samples



Easy-to-use, respirometric measuring system for determining the biological oxygen demand (BOD). The BOD can be determined simultaneously in up to 6 or 12 samples.

- No dilution of the sample required
- Direct reading of the BOD, the time course and the intermediate values on the graphical display of the measuring heads
- Input of the used sample volume directly at the measuring head
- Monitoring time between 1 and 7 days
- Permanent display of the current status at each measuring head
- Coloured measuring heads with adjustable, numerical sample identification

### Scope of supply:

**OxiTop®-i IS 6:** 6 x measuring heads (3 x blue, 3 x grey), 6 x sample bottles PF600, 6 x rubber quivers, overflow measurement flasks, 6 x stirring rods, stirring rod remover, stirring platform SI 6

**OxiTop®-i IS 12:** 12 x measuring heads (6 x blue, 6 x grey), 12 x sample bottles PF600, 12 x rubber quivers, overflow measurement flasks, 12 x stirring rods, stirring rod remover, stirring platform SI 12

**An incubator is required to operate the OxiTop®-i IS.**

**Please order separately.**

### Specifications

Pressure range: 500 ... 1250 hPa  
 BOD range: 0 ... 4000 mg/l  
 Display: Graphical LCD, background-illuminated  
 Power supply of measuring heads: 1 x CR 2450  
 Power supply of stirring platform: 100 ... 240 V, 50/60 Hz

Type	PK	Cat. No.	Price EUR
OxiTop®-i IS 6	1	7.940 936	<b>3.161,07</b>
OxiTop®-i IS 12	1	4.667 879	<b>5.448,70</b>

## Calibrating standards TOC



Total Organic Carbon (TOC) standards are manufactured from high purity raw materials and are suitable for calibrating of TOC analysers to a high accuracy. These standards are independent, traceable and certified. TOC750P contains preservatives.

Concentration	Accuracy (±)	Package	PK	Cat. No.	Price	
					EUR	Now EUR
5 ppm	5%	amber glass bottle	1	6.235 803	<del>117,32</del>	<b>111,45</b>
10 ppm	5%	amber glass bottle	1	4.012 105	<del>117,32</del>	<b>111,45</b>
15 ppm	5%	amber glass bottle	1	6.268 502	<del>117,32</del>	<b>111,45</b>
20 ppm	5%	amber glass bottle	1	4.012 106	<del>158,35</del>	<b>150,43</b>
25 ppm	5%	amber glass bottle	1	6.317 555	<del>158,35</del>	<b>150,43</b>
30 ppm	5%	amber glass bottle	1	6.268 503	<del>217,01</del>	<b>206,16</b>
50 ppm	5%	amber glass bottle	1	6.235 238	<del>117,32</del>	<b>111,45</b>
100 ppm	1%	HDPE twin neck bottle	1	4.012 107	<del>117,32</del>	<b>111,45</b>
250 ppm	1%	HDPE twin neck bottle	1	4.012 108	<del>117,32</del>	<b>111,45</b>
500 ppm	1%	HDPE twin neck bottle	1	6.210 157	<del>117,32</del>	<b>111,45</b>
1000 ppm	0.5%	HDPE twin neck bottle	1	6.231 121	<del>158,35</del>	<b>150,43</b>
2000 ppm	0.5%	HDPE twin neck bottle	1	6.253 516	<del>117,32</del>	<b>111,45</b>
5000 ppm	0.5%	HDPE twin neck bottle	1	6.312 855	<del>217,01</del>	<b>206,16</b>

## Dissolved oxygen bottles, Soda-lime glass



According to Winkler. For determining the oxygen dissolved in water. The measured volume is accurate to ±0.01 ml. With a white labelling field. Each bottle is adjusted with the corresponding stopper. Stopper and bottle are therefore not interchangeable. Clear assignment of bottle and stopper by pairwise numbering.

Nominal capacity ml	NS	Snap-on clip	PK	Cat. No.	Price	
					EUR	Now EUR
100 to 150	14/23	4.684 046	1	9.304 038	<del>34,30</del>	<b>27,44</b>
250 to 300	19/26	4.684 047	1	9.304 048	<del>42,20</del>	<b>33,76</b>

## Clamps for oxygen determination bottles acc. to Winkler



Stainless steel, nickel-plated. For securing the NS stopper.

For bottles ml	For	PK	Cat. No.	Price EUR
100 ... 150	NS 14/23	1	4.684 046	<b>7,17</b>
250 ... 300	NS 19/26	1	4.684 047	<b>7,25</b>

## Vortex-Genie®-series 2

- ! - Topseller
- Proven quality



Robust and reliable shakers for speedy mixing and shaking of samples. Variable speed for precise mixing from gentle to vigorous. A broad range of attachments for most tubes, plates and other containers. Hands-Free or Touch On control.

**Scope of supply:** Vortexer, platform (diam. 76 mm) with a rubber cover, Pop-off cup

### Specifications

Shaking movement:	orbital
Speed display/Timer:	Scale
Speed range:	600-2700 rpm
Dimensions (L x W x H):	165 x 122 x 165 mm
Permissible ambient conditions:	0 to 38 °C at 95% rh
Weight:	4 kg
Power supply:	230 V, 50/60 Hz

**-30%**

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
Vortex Genie® 2	EU	1	9.730 060	<del>477,30</del>	<b>334,11</b>

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



LLG-Microcentrifuge tubes are versatile and suitable for general laboratory applications such as incubation, centrifugation, and storage of samples. With a tight-fitting Safe-Lock lid, which prevents unintentional opening of the lid during centrifugation.

- Frosted labelling area on the lid
- Lid membrane can be easily pierced
- Easy opening and closing with one hand
- Graduation lines for visual volume control
- RNase- and DNase-free

**-25%**

Volume	Form	PK	Cat. No.	Price	Now
ml				EUR	EUR
1.5	Conical	1000	6.490 852	<del>22,70</del>	<b>17,03</b>
2.0	Round	1000	6.490 853	<del>25,80</del>	<b>19,35</b>

## LLG-Centrifuge Tubes economy, PP



- With flat PE caps
- With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml)
- Easy-to-read black-volume graduations
- With a large frosted writing area
- Engraved graduation at the conical bottom of each tube
- Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes
- Autoclavable at 121 °C and freezable to -80 °C
- Free of pyrogens
- DNase/RNase-free

**-25%**

Capacity	Description	Form	PK	Cat. No.	Price	Now
ml					EUR	EUR
15	Sterile, in bag of 25 pieces	conical	500	4.668 482	<del>105,10</del>	<b>78,83</b>
50	Sterile, in bag of 25 pieces	conical	500	4.668 483	<del>129,80</del>	<b>97,35</b>
50	Sterile, in bag of 25 pieces	with rim	500	4.668 486	<del>144,20</del>	<b>108,15</b>
15	Aseptically, bulk pack	conical	500	6.270 403	<del>119,70</del>	<b>89,78</b>
50	Aseptically, bulk pack	conical	500	6.270 404	<del>133,00</del>	<b>99,75</b>
50	Aseptically, bulk pack	with rim	500	6.270 405	<del>160,20</del>	<b>120,15</b>

## Test Tube Racks Mega Rack®, ABS



- Stores a high quantity of samples eliminating the need for multiple racks
- Alphanumeric grid for quick location and retrieval of tubes
- Sturdy, lightweight material for easy transport

**-10%**

For tubes	Array	Colour	PK	Cat. No.	Price	Now
ml					EUR	EUR
50	100	Blue	1	6.492 925	<del>61,54</del>	<b>55,38</b>
50	100	White	1	6.492 926	<del>61,54</del>	<b>55,38</b>

## Magnetic stirrer with heating LLG-uniSTIRRER 3 pro, complete set

- ! - Complete Set
- New Design

Universal magnetic stirrer with outstanding price-performance ratio and new, improved design.

- Stainless steel plate with ceramic coating
- Digital speed and temperature control
- LED display
- "HOT" display for hot surfaces, even when the device is switched off

### Scope of supply:

Magnetic stirrer, PT1000 temperature probe, rod, holder



### Specifications

Max. Stirring volume:	3 l
Speed:	200 ... 1500 rpm
Heating temperature:	RT ... 280 °C
Ø working area:	135 mm
Stirring point material:	Stainless steel/ceramic
Permissible ambient temperature:	5 ... 40 °C
Dimensions (WxDxH):	220 x 160 x 95 mm
Weight:	1400 g
Power supply:	200 ... 240 V/100 ... 120 V, 50/60 Hz
Protection class (IP):	IP 21

**-25%**

Type	Plug type	PK	Cat. No.	Price	Now
LLG-uniSTIRRER 3 pro	EU	1	6.263 400	<del>377,20</del>	<b>282,90</b>

## Multiposition magnetic stirrer with heating Multi-HS digital

For synchronous stirring and heating at homogeneous temperatures up to 120 °C.

- Brushless motor guarantees constant speed
- SpeedServo™ technology maintains speed constant when viscosity changes



### Specifications

Max. stirring quantity per stirring position (H <sub>2</sub> O):	400 ml // 250 ml
Number of stirring positions:	6 // 15
Temperature range:	0 ... 120 °C
Speed range:	100 ... 1000 rpm
Timer:	1 min ... 99 h : 59 min
Plate dimension:	223 x 432 mm
Distance between stirring positions:	100 mm // 74 mm
Dimensions (W x D x H):	240 x 550 x 65 mm
Power supply:	230 V, 50/60 Hz

### Multi-HS 6 // Multi-HS 15

**-5%**

Type	PK	Cat. No.	Price	Now
Multi-HS 6	1	4.678 195	<del>1.607,00</del>	<b>1.526,65</b>
Multi-HS 15	1	4.678 196	<del>2.549,00</del>	<b>2.421,55</b>

## Magnetic stirrers for cell cultures with external control, bioMIXdrive 1/2/3/4



Due to the external control, these magnetic stirrers are suitable for use in ovens, incubators, safety cabinets or for underwater operation, depending on the device.

- For long-term use, e.g., in CO<sub>2</sub> incubators
- Fully sealed housing
- 3 years warranty

### Please always order control units separately.

### Specifications

Stirring quantity (H <sub>2</sub> O):	5 ... 5000 ml
Permissible ambient temperature:	-10 up to +50 °C at 100% H.R. max. +50 °C submerged in water
Housing:	Stainless steel
Protection class:	IP 68

Type	Stirring positions	Dimensions (W x D x H) mm	PK	Cat. No.	Price
bioMIXdrive 1	1	180 x 180 x 38	1	9.645 950	<b>652,00</b>
bioMIXdrive 2	2	130 x 270 x 38	1	9.645 978	<b>1.228,00</b>
bioMIXdrive 3	3	130 x 410 x 38	1	9.645 979	<b>1.785,00</b>
bioMIXdrive 4	4	270 x 270 x 38	1	9.645 980	<b>2.298,00</b>

## Control units for bioMIXdrive



### bioMIXcontrol

Control unit for 1x bioMIXdrive 1/2/3/4, power setting (10-stage), digital display, stainless steel housing, 3-year warranty.

### bioMIXcontrol S

Identical to bioMIXcontrol, but with stackable housing and vertical control panel.

### Specifications

Speed:	5 ... 250 rpm
Permissible ambient temperature:	0 ... 40 °C (at 80% r. H.)
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 20

Type	Dimensions (W x D x H) mm	PK	Cat. No.	Price
bioMIXcontrol	200 x 155 x 38	1	9.645 951	<b>1.412,00</b>
bioMIXcontrol S	215 x 120 x 57	1	9.645 981	<b>1.412,00</b>

## Overhead stirrer LS

**!** Complete Set

Robust overhead stirrers for low to high-viscosity liquids. With overload, overtemperature and overcurrent protection. For general tasks. Stir media with low to medium viscosities up to 25000 mPas.

- No tool is required for the assembly of the stirring tool

**Set with support rod and base, double clamp and stirring shaft with fixed blade**

### Specifications

Volume (H <sub>2</sub> O):	25 l
Viscosity (max.):	25000 mPas
Speed range:	50 ... 2000 rpm
Power rating:	120 W
Torque (max.):	40 Ncm
Chuck range:	Ø 1 ... 10 mm
Display:	Analog
Dimensions (W x D x H):	80 x 196 x 215 mm
Weight:	2.3 kg
IP code:	IP 40
Power supply:	110 ... 230 V, 50/60 Hz
Warranty:	3 years



## Microplate shaker MultiPlate Genie®

**!** For PCR preparation



Shaker for vigorous, uniform vortex mixing of up to 4 microplates.

- Variable adjustable speed
- Timer or continuous operation
- Programmable pulse function: 0.1 sec to 99 min
- Can be used in cold rooms and incubators (except CO<sub>2</sub> incubators)

Type of movement:	orbital
Shaking stroke:	1 mm
Speed:	500 ... 2700 rpm
Timer:	1 ... 99 min
No. of plates	4
Permitted ambient conditions:	0 ... 38 °C , 95% RH
Dimensions (WxDxH):	250 x 380 x 150 mm
Weight:	6 kg
Power supply:	230 V, 50 Hz

**-5%**

Type	Plug type	PK	Cat. No.	Price	Now
LS Package	EU	1	4.666 711	<del>1,015,00</del>	<b>964,25</b>

**-12%**

Type	Plug type	PK	Cat. No.	Price	Now
MultiPlate Genie®	EU	1	4.688 684	<del>1,120,60</del>	<b>986,13</b>

## Roller Mixers LLG-uniROLLER 6 easy and pro



easy



pro

### Specifications

Type of movement:	rocking and rolling
Amplitude:	24 mm
Speed:	0 ... 70 rpm
Timer (LLG-uniROLLER 6 pro):	1 ... 1199 min
Load max.:	4 kg
Ambient temperature:	5 ... 40 °C
Max. humidity:	80% r. H.
Dimensions (W x D x H):	260 x 450 x 120 mm
Power supply:	100 ... 240 V, 50/60 Hz
IP code:	IP 21

Analogue or digital roller mixer with 6 rollers for efficient mixing.

- Max speed 70 rpm

### LLG-uniROLLER 6 easy:

- Analog control

### LLG-uniROLLER 6 pro:

- LCD display  
- Continuous or timer operation



**-25%**

Type	Plug type	PK	Cat. No.	Price	Now
LLG-uniROLLER 6 easy	EU	1	6.263 645	<del>426,30</del>	<b>319,73</b>
LLG-uniROLLER 6 pro	EU	1	6.263 647	<del>627,70</del>	<b>470,78</b>

## Halogen Moisture Analyser DBS 60-3



With Viewing Window



Modern moisture analyser with 10 memories and graphic display.

- Halogen quartz glass heater 400 W
- Backlit LCD, digit height 15 mm: Previous drying time, current temperature, unit for displaying the results, current moisture content in %, drying mode/Status display drying
- The last value measured remains on the display until it is replaced by a new measurement
- Date and time display as standard
- 10 sample plates included

### Specifications

Readability:	0.01% or 0.001 g
Weighing range, max:	60 g
Reproducibility, weight of sample 2 g:	0.15%
Reproducibility, weight of sample 10 g:	0.02%
Temperature range:	50 ... 200 °C
Dimensions (W x D x H):	204 x 336 x 167 mm

**-20%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
DBS 60-3	1	9.901 441	<del>1,650,00</del>	<b>1.320,00</b>

## LLG-Sample dishes, Aluminium



High-quality aluminium sample dishes, for moisture determination.

**-20%**

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

## LLG-Weighing boats, PS, diamond, antistatic



Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range -10 to 70 °C. Can be used with microwave moisture analysers. Features a diamond shape that easily flexes for accurate pouring and a wide, flat bottom to resist tipping.

**-40%**

Capacity	Colour	Dimensions	PK	Cat. No.	Price	Now
ml		mm			EUR	EUR
5	White	55 x 35 x 6	1000	9.900 788	<del>80,80</del>	<b>53,88</b>
30	White	85 x 65 x 14	500	9.950 194	<del>35,80</del>	<b>21,48</b>
100	White	125 x 100 x 19	250	9.950 195	<del>44,80</del>	<b>26,88</b>

## LLG-Spoon spatulas, 18/10 steel



- One side with curved spoon
- One side with straight, triangular spatula

**-25%**

Dimensions Spoon (L x W)	Dimensions Spatulas (L x W)	Overall length	PK	Cat. No.	Price	Now
mm	mm	mm			EUR	EUR
35 x 15	25 x 13	150	4	9.150 800	<del>21,84</del>	<b>23,88</b>
35 x 15	25 x 13	180	4	9.150 801	<del>22,64</del>	<b>24,48</b>
35 x 15	25 x 13	210	4	9.150 802	<del>23,88</del>	<b>25,41</b>
35 x 15	25 x 13	250	4	9.150 073	<del>22,80</del>	<b>24,60</b>
35 x 15	25 x 13	300	4	9.150 074	<del>26,40</del>	<b>27,30</b>

## Weighing scoops, glass



Made of high-quality Borosilicate glass 3.3. Ideal for powders or granules which are dispensed via the tubular stem. Funnel shape for loss-free ejection of the weighing sample.

**-30%**

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			EUR	EUR
3	52	1	9.301 066	<del>19,00</del>	<b>13,30</b>
6	56	1	9.301 067	<del>22,50</del>	<b>15,75</b>
10	80	1	9.301 068	<del>22,80</del>	<b>15,96</b>

## Precision Balances Explorer® EX



EX6202

- High-resolution, colour VGA touchscreen, multilingual, with symbols for easy operation
- Application: Weighing functions (17 weighing units plus free weighing units), piece counting, percentage weighing, animal weighing/dynamic weighing, check weighing, filling weighing, totalising, formulation, differential weighing, density determination, maximum value hold, ingredient calculation, pipette calibration, gross/net/tare function
- Interfaces: Easily accessible communication interfaces (USB, RS232), additional 3rd slot for communication (Ethernet or 2nd RS232). Data output according to GMP/GLP with time and date, direct data transmission
- Construction: Metal housing, ABS upper housing shell, stainless steel weighing pan, glass draft shield with hinged door at the top, replaceable protective cover
- Equipment: Modular display design with adjustable angle (mounting on the housing, on the wall or a stand). Automatic internal calibration AutoCal. Illuminated bubble level. Selectable ambient and pressure settings. Integrated underfloor weighing hook. Labour protection cover. Locking switch for the software

**-15%**

Type	Weighing range	Readability	Plate dimensions	PK	Cat. No.	Price	Now
	g	mg	mm			EUR	EUR
EX1103	1100	1 mg	Ø 130	1	9.902 379	<del>6.070,00</del>	<b>5.159,50</b>
EX6202	6200	0.01 g	190 x 200	1	9.902 384	<del>4.850,00</del>	<b>4.122,50</b>
EX10201	10200	0.1 g	190 x 200	1	9.902 388	<del>3.765,00</del>	<b>3.200,25</b>

## Weighing boats MN 808, Paper, nitrogen-free



Pack of 100 pieces.

**-20%**

Type	Width	Length	Height	PK	Cat. No.	Price	Now
	mm	mm	mm			EUR	EUR
MN 808	10	58	10	100	9.301 069	<del>104,00</del>	<b>83,20</b>

Other sizes and weighing aids available on request.

## Analytical balances Pioneer® PX



High-performance, economical balances with high accuracy and repeatability for applications in laboratories, industry and education. For basic weighing, parts counting, per cent weighing, dynamic weighing and density determination.

- 2-line, backlit LCD
- 4 quick keys enable the most common weighing modes
- Draftshield
- USB and RS 232 interface for data exchange with PCs and PLCs
- User-selectable span calibration points
- Real-time clock with GLP/GMP data
- Cast metal lower housing, removable stainless steel weighing pan
- Integrated weigh-below-hook
- Auto-tare
- Overload, underload and stability indicator
- 4 menu languages

**Specifications**

Permissible ambient temperature range:	10 ... 30 °C
Height in draftshield:	235 mm
Dimensions (W x D x H):	209 x 321 x 309 mm
Weight:	4.5 kg
Power supply:	100 ... 240 V, 50/60 Hz

**-15%**

Type	Weighing range	Readability	Plate diam.	PK	Cat. No.	Price	Now
	g	mg	mm			EUR	EUR
PX85	82	0.01	80	1	4.663 322	<del>3.525,00</del>	<b>2.996,25</b>
PX225D*	82 / 220	0.01 / 0.1	80	1	4.663 324	<del>3.660,00</del>	<b>3.111,00</b>
PX124	120	0.1	90	1	4.663 327	<del>1.730,00</del>	<b>1.470,50</b>
PX224	220	0.1	90	1	4.663 330	<del>1.865,00</del>	<b>1.585,25</b>
PX224/E**	220	0.1	90	1	4.663 329	<del>1.650,00</del>	<b>1.402,50</b>

\* Dual range, \*\*External calibration

## LLG-Weighing brush, with wooden handle



Fine hair weighing brush with pointed tips and wooden black handle. Excellent tool for cleaning weighing boats, weighing dishes and analytical balances.

**-15%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Weighing brush	2	6.267 404	<del>25,80</del>	<b>21,93</b>

# LABORTOPS

## Centrifuges Frontier™ Multi Pro FC5816/FC5816R



Pro FC5816



- Cooling and non Cooling
- Easy to use

Powerful and versatile Universal Centrifuges for almost every laboratory application.

- Backlit Liquid Crystal Display (LCD)
- Corrosion-resistant stainless steel chamber with polycarbonate/ABS plastic lid
- 10 acceleration and deceleration rates, selection of running time from 10 s to 99 h 59 min or continuous as well as quick spin
- Over-speed protection
- Dual imbalance sensing

**Please order rotors separately.**

### Specifications

Max. RCF:	21.379 x g // 24.325 x g
Max. Speed:	15.000 rpm // 16.000 rpm
Max. Load:	6 x 250 ml
Power consumption:	530 W // 785 W
Temperature setting range:	- // -20...40 °C
Dimensions (W x D x H):	446 x 538 x 354 mm // 723 x 538 x 354 mm
Weight:	52 kg // 77 kg
Power supply:	230 V, 50/60 Hz

### FC5816 // FC5816R

**-20%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Frontier™ Multi Pro FC5816	1	4.661 521	<del>4.550,00</del>	<b>3.640,00</b>
Frontier™ Multi Pro FC5816R	1	4.661 520	<del>7.660,00</del>	<b>6.128,00</b>

## Swing-out rotor 16 x 50 ml, ID for Frontier™ Multi Pro FC5816/FC5816R


**-15%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Swing-out rotor 16 x 50 ml, ID	1	4.661 563	<del>1.715,00</del>	<b>1.457,75</b>
Rack, 4 x 50 ml, diam. 29 mm FA	2	4.661 620	<del>291,00</del>	<b>247,35</b>
Rack, 10 x 15 ml, diam. 17 mm FA	2	4.661 621	<del>291,00</del>	<b>247,35</b>

ID: Auto rotor identification, FA: Conical bottom tubes