

# LABORTOPS

valid until 30.06.2021



## Mini centrifuge LLG-uniCFUGE 3 pro

**NEW**



- Magnetic Fixing for Quick Rotor Change
- Safety Lid Lock



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## Laboratory trays LaboPlast®, PP



White all-purpose bowl. Suitable for food. Resistant to many acids and alkalis. Strongly rounded rim. Temperature resistant up to 60 °C.

**-26%**

Internal dimensions mm	Width mm	Depth mm	Height mm	PK	Cat. No.	Price EUR	Now EUR
130 x 180	230	180	42	1	9.200 203	5,00	3,70
180 x 240	310	250	65	1	9.200 204	8,90	6,50
240 x 300	370	310	75	1	9.200 205	13,00	9,51
300 x 400	520	420	120	1	9.200 206	21,10	15,29
400 x 500	634	534	140	1	9.200 207	26,70	29,66
500 x 700	846	648	160	1	9.200 208	53,50	40,62

## LLG-Labeling tapes



**Removal without Residue**



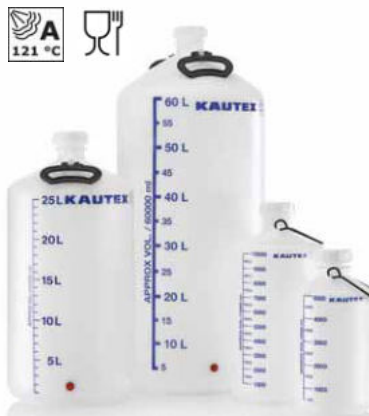
For labelling and colour coding of laboratory vessels and utensils. Strong and durable. Water resistant. Can withstand temperatures ranging from -23 °C to 121 °C. The tapes are easy to write-on and leave no residue when removed. Rolls of 12.7 m. Please order optional dispenser separately (9.040 389).



**-30%**

Width mm	Colour	PK	Cat. No.	Price EUR	Now EUR
12.7	white	6	4.663 401	23,30	16,31
12.7	yellow	6	4.663 402	23,30	16,31
12.7	green	6	4.663 403	23,30	16,31
12.7	red	6	4.663 404	23,30	16,31
12.7	orange	6	4.663 405	23,30	16,31
12.7	blue	6	4.663 406	23,30	16,31
12.7	pink	6	4.663 407	23,30	16,31
12.7	3 x blue, 3 x green, 3 x orange, 3 x red, 5 x white, 4 x yellow, 3 x pink	24	4.663 408	51,60	36,12
19.0	white	4	4.663 409	26,20	18,34
19.0	yellow	4	4.663 410	26,20	18,34
19.0	green	4	4.663 411	26,20	18,34
19.0	red	4	4.663 412	26,20	18,34
19.0	orange	4	4.663 413	26,20	18,34
19.0	blue	4	4.663 414	26,20	18,34
19.0	pink	4	4.663 415	26,20	18,34
19.0	2 x blue, 2 x green, 2 x orange, 2 x red, 4 x white, 2 x yellow, 2 x pink	16	4.663 416	51,00	35,70
25.4	white	3	4.663 417	22,10	22,47
25.4	yellow	3	4.663 418	22,10	22,47
25.4	green	3	4.663 419	22,10	22,47
25.4	red	3	4.663 420	22,10	22,47
25.4	orange	3	4.663 421	22,10	22,47
25.4	blue	3	4.663 422	22,10	22,47
25.4	pink	3	4.663 423	22,10	22,47
25.4	1 x blue, 2 x green, 1 x orange, 2 x red, 2 x white, 2 x yellow, 2 x pink	12	4.663 424	50,10	35,07

## Aspirator Bottles, series 350, HDPE



Food-grade product according to Regulation (EC) No 10/2011. Natural with printed blue graduations (in L) and screwed closure. With or without threaded connection at base. Inside neck diameter 50 mm.

**Please order stopcock separately.**

**-30%**

Capacity Litres	Ext. diam. mm	Height mm	Stopcock connection	Handle	PK	Cat. No.	Price EUR	Now EUR
5	167	330	without	1	1	9.011 009	33,90	23,73
10	206	427	without	1	1	9.011 010	41,20	28,84
25	278	580	without	2	1	9.011 025	83,10	58,17
5	167	330	with	1	1	9.011 069	33,90	23,73
10	206	427	with	1	1	9.011 071	41,20	28,84
25	278	580	with	2	1	9.011 072	83,10	58,17

Height in mm without cap.

## Stopcock for Aspirator Bottles



**-30%**

Type	PK	Cat. No.	Price EUR	Now EUR
Stopcock, HDPE, blue	1	9.011 181	49,00	13,30

## Scintillation Vials, borosilicate glass

- With white screw caps made of PP (caps attached)
- Liner Material metal foil
- Made of WHEATON 180 low potassium borosilicate glass
- High ultraviolet transmission



**-25%**

Capacity ml	Cap size	Dimensions (dia. x H) mm	PK	Cat. No.	Price EUR	Now EUR
20	22-400	28 x 61	500	6.253 024	235,70	176,30
20	24-400	28 x 61	500	6.284 229	243,40	182,06

## LLG-Mini Narrow-neck vials, PP, Heavy Duty

Ideal for collecting, transporting and storing liquid samples.



- With screw cap
- Very stable design
- Transparent
- With graduation



**-30%**

Capacity ml	Diam. mm	Height mm	Thread external diam. mm	PK	Cat. No.	Price EUR	Now EUR
4	16	40	13	100	6.289 520	28,00	19,60
8	25	44	19	100	6.289 450	34,00	23,80
30	36	61	19	100	6.289 451	59,00	41,30
60	40	85	19	100	6.289 452	70,00	49,00
125	51	99	23	50	6.289 453	51,00	35,70

## Mini centrifuge LLG-uniCFUGE 2/5



Speed can be adjusted to 4000 or 6000 rpm. Powerful motor for fast starting. Quick stop when the lid is opened.

**Scope of supply:** Centrifuge, mains cable, rotor for 4 x 5 ml tubes

### Specifications

Max. RCF:	1200 x g and 2000 x g
Max. speed:	4000 rpm and 6000 rpm
Motor:	brushless DC motor
Max. load:	4 x 5 ml tubes
Dimensions (diam. x H):	140 x 120 mm
Weight:	0.7 kg
Power supply:	100 ... 240 V, 50/60 Hz

-30%

Description	Plug type	PK	Cat. No.	Price	Now
LLG-uniCFUGE 2/5	EU	1	6.263 515	EUR 215,00	EUR 150,50
LLG-uniCFUGE 2/5	UK	1	6.263 516	EUR 215,00	EUR 150,50

## LLG-Centrifuge tubes, 5 ml, PP

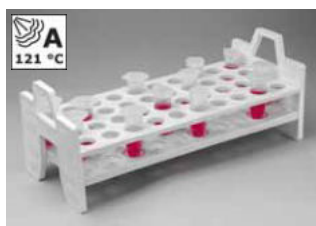


- Max. 25000 x g, suitable for high speed centrifugation
- Graduations every 0.25 ml for easy volume estimation
- A flat, frosted cap and large writing pad for sample labeling and identification
- Autoclavable
- Fits all rotors and racks that hold 15 ml conical tubes, no adapters needed
- Certified free of RNase and DNase

-30%

Description	Package contents	PK	Cat. No.	Price	Now
Clear	1 bag of 250 pieces	250	6.281 113	EUR 38,00	EUR 26,60
Colour assortment green, yellow, red, blue	4 bags of 50 pieces (1 colour per bag)	200	6.281 114	EUR 33,00	EUR 23,10

## Tube Rack for 5ml centrifuge tubes, PP



- Dimensions (L x W x H):  
260 x 113 x 105 mm
- Rows: 4 x 10

-18%

Array	PK	Cat. No.	Price	Now
40	1	9.194 026	EUR 37,30	EUR 30,42

## Mini centrifuge LLG-uniCFUGE 3 pro



- Magnetic Fixing for Quick Rotor Change
- With Timer and Digital Display



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

- Easy rotor change via magnetic fixing
- Microprocessor controlled regulation for load-independent accuracy and integrated imbalance control
- Brushless and non-wearing high-efficiency motor
- Digital display
- Integrated timer
- Starts and stops in seconds
- Electronic safety brake on lid opening for user safety
- Lid safety interlock
- Smooth and silent, discreet running

### The following types of vessel can be used:

- 8 x 1.5 ml micro tubes
- 8 x 2 ml micro tubes
- 16 x 0.2 ml PCR tubes

### By using the fitting adapter:

- 8 x 0.2 ml micro tubes
- 8 x 0.5 ml micro tubes

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

### Specifications

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

-30%

Description	Plug type	PK	Cat. No.	Price	Now
LLG-uniCFUGE 3 pro	EU	1	6.263 522	EUR 279,00	EUR 195,30
LLG-uniCFUGE 3 pro	UK	1	6.263 527	EUR 279,00	EUR 195,30



# Sample Preparation

## Knife mill HM100

The HM100 knife mill is used for grinding soft, medium-hard, brittle and fibrous materials. Especially suitable for samples with a high water, oil or fat content. The 2 knives are driven by a 900 W motor to achieve a reliable grinding result. Suitable for applications in agriculture, biology, medicine and food technology.

- For soft, elastic, fibrous, aqueous, oily or fatty samples
- Electronically controlled speed
- Samples are grinded in only 10 to 30 seconds
- Up to 700 ml sample volume
- Autoclavable grinding vessels
- Grinding vessels available in various materials
- Cutting knives with 2 stainless steel and titanium blades available
- Easy operation
- Quick start
- Coarse and fine grinding in one step
- Interval, reverse and manual mode available



**Scope of supply:** Knife mill, 1 l grinding vessel made of plastic (autoclavable), lid, stainless steel knife

### Specifications

Feed size:	40 mm
Feed quantity:	50 ... 700 ml
Ult. fineness:	<300 µm
Timer:	1 s ... 10 min
Motor speed:	2000 ... 10000 rpm
Power consumption:	900 W
Dimensions (W x D x H):	260 x 343 x 454 mm
Weight:	16 kg
Power supply:	220 V, 50 Hz

Type	PK	Cat. No.	Price	Now
HM100	1	4.669 516	<del>3.271,60</del>	<b>3.072,76</b>

-6%

## LLG-Mortars, porcelain



According to DIN 12906. Suitable for easy grinding, comminution or crushing of ground material during sample preparation. With practical spout.

Please order pestle separately.

-30%

Capacity	Ext. diam.	Height	DIN	Description	PK	Cat. No.	Price	Now
ml	mm	mm					EUR	EUR
25	51	32		rough inside	1	9.164 410	<del>8,30</del>	<b>5,81</b>
70	63	41	12906	rough inside	1	6.227 149	<del>11,10</del>	<b>7,77</b>
75	76	45		rough inside	1	9.164 411	<del>12,10</del>	<b>8,47</b>
110	83	50		rough inside	1	6.232 577	<del>17,20</del>	<b>12,04</b>
160	90	56	12906	rough inside	1	6.243 865	<del>19,90</del>	<b>13,93</b>
220	105	64		rough inside	1	9.164 412	<del>21,70</del>	<b>15,19</b>
400	125	71	12906	rough inside	1	9.164 413	<del>45,20</del>	<b>31,64</b>
2250	224	127		rough inside	1	6.252 383	<del>230,90</del>	<b>161,63</b>
110	83	50		glazed inside	1	6.227 289	<del>17,00</del>	<b>11,90</b>
220	105	64		glazed inside	1	6.234 591	<del>20,70</del>	<b>14,49</b>

## Homogenising bags Whirl-Pak®, PE, sterile

Nasco



- Sterile, solid bags for the homogenisation of liquids and solids
- With labelling strips

-30%

Nominal capacity	Dimensions (D x W)	Thickness	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
1627	190 x 300	0.102	500	7.059 855	<del>324,00</del>	<b>226,80</b>

## Sample bags Whirl-Pak®, PE, sterile

Nasco



Whirl-Pak® bags are sterile polyethylene laboratory sample bags used to transport samples for biological testing and other applications. Available with or without write-on label. With integrated wire closing system. Temperature range: -210 to 82 °C.

-30%

Nominal capacity	Dimensions (D x W)	Thickness	PK	Cat. No.	Price	Now
ml	mm	mm			EUR	EUR
118	75 x 185*	0.057	500	7.077 212	<del>99,60</del>	<b>69,72</b>
532	115 x 230*	0.064	500	7.058 120	<del>140,40</del>	<b>98,28</b>
710	150 x 230*	0.076	500	6.242 083	<del>184,80</del>	<b>129,36</b>
2721	254 x 380*	0.102	250	6.266 304	<del>273,60</del>	<b>191,52</b>
5441	380 x 508*	0.102	100	6.257 989	<del>208,80</del>	<b>146,16</b>
58	75 x 125	0.057	500	6.091 055	<del>90,00</del>	<b>63,00</b>
710	150 x 230	0.076	500	6.228 639	<del>170,40</del>	<b>119,28</b>
2041	190 x 380	0.076	500	6.305 117	<del>278,40</del>	<b>194,88</b>

\*with label

## LLG-Pestles, porcelain



According to DIN 12906. With rough or glazed friction surface for easy crushing of ground material during sample preparation.

-30%

Head diam.	Length	DIN	Description	PK	Cat. No.	Price	Now
mm	mm					EUR	EUR
14	54		rough	1	6.227 150	<del>7,20</del>	<b>5,04</b>
24	115	12906	rough	1	9.164 420	<del>7,80</del>	<b>5,46</b>
30	135	12906	rough	1	6.232 574	<del>8,90</del>	<b>6,23</b>
36	150	12906	rough	1	9.164 421	<del>12,30</del>	<b>8,61</b>
42	175	12906	rough	1	9.164 422	<del>15,90</del>	<b>11,13</b>
74	250	12906	rough	1	6.252 384	<del>62,30</del>	<b>43,61</b>
42	175	12906	glazed	1	6.227 292	<del>20,90</del>	<b>14,63</b>
36	150	12906	glazed	1	6.234 592	<del>14,90</del>	<b>9,80</b>

## Ultrasonic homogeniser, SONOPULS HD 2200.2

For volumes 2 to 1000 ml. Ready-to-operate set for volumes from 20 to 900 ml consisting of:

- HF generator GM 2200.2
- Ultrasonic converter UW 2200
- Standard horn SH 213 G
- Titanium flat tip TT 13, diam. 13 mm

Further Titanium probes with diam. 2 mm, 3 mm, 6 mm, 19 mm and 25 mm available on request.

### HF generator

Dimensions (W x D x H):

### Converter

Dimensions (diam. x L):

Titanium probes (diam.):

Ultrasonic nominal power:

### GM 2200.2

240 x 210 x 140 mm

### UW 2200

70 x 150 mm

2/3/6/13/19/25 mm  
(not supplied)

max. 200 W

-24%

Type	min. sample volume ml	max. sample volume ml	PK	Cat. No.	Price	Now
SONOPULS HD 2200.2	20.00	900	1	6.273 768	EUR <del>3.471,00</del>	EUR <b>2.622,27</b>



- For up to 2.5 Litres
- With Soft Start
- One-Handed Quick-Release Coupling

**BANDELIN**



Stand and vessel are not included.

## Homogeniser, stand, POLYTRON® PT 2500 E (Ecoline)

The PT 2500 E is the ideal solution for cost-conscious laboratories. It is able to perform homogenisations with volumes from 0.05 to 2500 ml. The electronic control system continuously monitors the speed and automatically adjusts it, keeping it constant with changing viscosity. The speed is easily seen on the large digital display. Dispersing heads with a variety of styles and diameters are available to provide optimum particle size reduction when using this drive. There are many different styles of aggregates available from 3 mm up to 25 mm

- Aggregate tip speeds up to 32 m/s
- Soft start prevents splashing of homogenate from sample vessel
- Thermal fuse for overload protection
- Speed remains constant even when viscosity changes
- Aggregate replacement using one-handed quick-release coupling
- Insulated motor housing keeps motor noise to a safe, approved level
- Various models of EasyClean dispersing aggregates
- Digital display

-3%

Type	Plug type	PK	Cat. No.	Price	Now
				EUR	EUR
POLYTRON® PT 2500 E	EU	1	7.981 185	<del>1.559,00</del>	<b>1.513,86</b>
POLYTRON® PT 2500 E	CH	1	6.263 341	<del>1.559,00</del>	<b>1.513,86</b>

### Dispersing tool

The universal geometry uses two rows of teeth, is suitable for a large spectrum of laboratory applications, and it is reliable and efficient.

Coupling type E.

-3%

Type	Length	Diam.	Working volume	PK	Cat. No.	Price	Now
	mm	mm	ml			EUR	EUR
PT-DA 25 / 2EC-E192	192	25	100 ... 2500	1	9.570 227	<del>1.612,00</del>	<b>1.565,32</b>

**Stand and dispersing head must be ordered separately.**

### Specifications

Application volume:

Motor input power:

Dispersing heads:

Speed range:

Dimensions Drive

(W x D x H):

Weight Drive:

Power supply:

IP code acc. to DIN:

Tested to:

0.05 ... 2500 ml

500 W

diam. 3, 5, 7 and 12 mm and

diam. 20 mm and 25 mm

Stepless 500 ... 30000 rpm

76 x 157 x 236 mm

1.8 kg

90 ... 230 V ±10 %, 50/60 Hz

IP 20

IEC/EN61326-1/IEC/

EN 61000-6-2/

EN 61000-6-4 IEC/

EN 61010-2-51

**KINEMATICA**  
Homogenizing perfected.



### Stand

Plate stand with two rod design.

Height adjustable.

-3%

Type	Weight	PK	Cat. No.	Price	Now
	g			EUR	EUR
ST-P20/600	370	1	4.013 060	<del>344,00</del>	<b>334,04</b>

## Space-saving jerrycans, HDPE, electrically conductive



Black. For use in explosion-protected areas.

- Surface resistance < 10<sup>5</sup> Ohm
- With or without threaded connector 3/4"
- Space-saving due to its narrow width
- Grounding by means of antistatic set (available as accessory)
- Electrically conductive stopcock StopCock PA (available as accessory)

**-12%**

Capacity	Description	Width	PK	Cat. No.	Price	Now
l		mm			EUR	EUR
5	Space-saving jerrycans with threaded connector	65	1	4.665 332	<del>46,90</del>	<b>40,66</b>
5	Space-saving jerrycans without threaded connector	65	1	4.665 330	<del>44,10</del>	<b>38,94</b>
5	Compact jerrycan set, with StopCock PA	65	1	4.665 322	<del>64,80</del>	<b>57,24</b>
10	Space-saving jerrycans with threaded connector	125	1	4.665 333	<del>60,50</del>	<b>53,48</b>
10	Space-saving jerrycans without threaded connector	125	1	4.665 331	<del>58,60</del>	<b>51,76</b>
10	Compact jerrycan set, with StopCock PA	125	1	4.665 329	<del>78,30</del>	<b>69,17</b>

## Anti-static Set



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

**-20%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Antistatic set	1	9.001 346	<del>46,50</del>	<b>36,99</b>

## Safety containers, HDPE, electrically conductive



Black. For use in explosion-protected areas. Electrically conductive, with or without floater for level control.

- Surface resistance < 10<sup>5</sup> Ohm

**-7%**

Capacity	Dimensions (W x D x H) mm	Thread	PK	Cat. No.	Price	Now
l					EUR	EUR
10	185 x 290 x 265*	S 60 / 61	1	4.005 602	<del>47,60</del>	<b>44,04</b>
20	185 x 290 x 500*	S 60 / 61	1	4.005 671	<del>62,00</del>	<b>59,91</b>
30	240 x 364 x 455*	S 60 / 61	1	4.664 150	-	<b>82,93</b>
60	330 x 395 x 625*	S 70 / 71	1	4.005 593	-	<b>155,00</b>
10	185 x 290 x 265	S 60 / 61	1	4.005 682	<del>110,60</del>	<b>92,40</b>
20	185 x 290 x 500	S 60 / 61	1	4.005 683	<del>126,50</del>	<b>123,53</b>

\* Without floater, with UN approval

## Safety containers with viewing stripe, HDPE, electrostatic conductive, with UN-approval



Black. For use in explosion-protected areas. Electrostatic conductive container for a safe collection and transportation of flammable solvents and solvent waste. Made of electrostatic conductive HDPE to avoid ignition risks. The viewing strip allows a permanent control of the solvent level.

- Surface resistance < 10<sup>5</sup> Ohm

**-2%**

Capacity	Dimensions (W x D x H) mm	Thread	PK	Cat. No.	Price	Now
l		S			EUR	EUR
10	195 x 195 x 380	90	1	6.251 593	<del>100,10</del>	<b>98,18</b>
10	190 x 230 x 319	50	1	6.270 296	<del>53,60</del>	<b>52,16</b>

## Antistatic Explosion Proof Tubing, electrically conductive



Manufactured from a special "Antistatic Compound" with pure PTFE and finest carbon dust. This makes them particularly suitable for use with light-sensitive substances, for example. The PTFE content of the hose ensures the greatest possible chemical resistance.

Thermal resistance: -200 to +250 °C.

Delivery quantity: 1 m

**-10%**

Int. diam. mm	Ext. diam. mm	PK	Cat. No.	Price	Now
				EUR	EUR
1.6	3.2	1	9.205 601	<del>8,70</del>	<b>7,81</b>
2.0	3.0	1	9.205 602	<del>7,50</del>	<b>6,73</b>
4.0	6.0	1	9.205 603	<del>12,10</del>	<b>10,84</b>
6.0	8.0	1	9.205 604	<del>15,50</del>	<b>13,90</b>
8.0	10.0	1	9.205 605	<del>20,60</del>	<b>18,56</b>
10.0	12.0	1	9.205 606	<del>24,30</del>	<b>21,87</b>
12.0	14.0	1	9.205 607	<del>40,70</del>	<b>36,68</b>

## Halogen moisture balances MB90 and MB120

Moisture Analysis Made Simple and Powerful.

- The precisely controlled halogen heating dries samples quickly and ensures uniform heating to yield fast, precise and repeatable results of 0.01 % readability
- Designed with effortless maintenance in mind; removable pan handler and heating chamber components that make cleaning quick and easy.
- Icon-based menu navigation on the easy-to-read touchscreen display makes operating intuitive
- Applications: Percent Moisture Determination, Percent Moisture Regain Determination, Percent Solid Determination, Weighing
- Display 4.3": TFT color touchscreen display

- Communication: RS232 with GLP/GMP data output, USB Host and USB Device (included)
- Construction: Metal base, ABS top housing, halogen heat source, stainless steel pan support, stainless steel pan handler, in-use cover



**Design Features MB90:** Three shut-off criteria (manual, timed or auto), two drying profiles (standard and fast), storage up to two methods, user guide, 40 to 200 °C heating temperature range (1 °C increments), 13 operational languages

**Design Features MB120:** Seven shut-off criteria (manual, timed, autofree %/s, autofree mg/s, A30, A60 and A90), four drying profiles (standard, fast, ramp and step), storage up to 100 methods and 1000 test results for all methods, user guide, 40 to 230 °C heating temperature range (1 °C increments), 13 operational languages

### Specifications

	MB90 // MB120
Capacity:	90 g // 120 g
Repeatability 3 g/10 g:	0.18 %/0.02 % // 0.05 %/0.015 %
Readability:	0.01 % or 0.001 g
Temperature range:	40 ... 200 °C // 40 ... 230 °C
Operating temperature:	10 ... 40 °C
Pan size (diam.):	90 mm
Dimensions (W x D x H):	210 x 350 x 180 mm
Weight:	5.23 kg
Power supply:	120 or 240 VAC, 50 ... 60 Hz

**-21%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
MB90	1	6.282 764	<del>2,535,00</del>	<b>1,999,61</b>
MB120	1	6.282 765	<del>3,810,00</del>	<b>3,005,33</b>



## Compact Balances EK-AEP, Ex-protected

Compact, lightweight balance for precise weighing in potentially explosive atmospheres (zones 0, 1 and 2). Equipped with an optical data output for transferring measuring results to device in a distant, safe area.

- Easy-to-read backlit LCD display, digit size 16 mm
- Hygienic and chemically resistant stainless steel (SUS304) weighing pan
- Comparator function for faster and more accurate filling, packing, sorting, etc
- Adjustable response characteristics depending on the degree of drafts and vibrations at the location
- Multiple weighing units: g, oz, lb, ozt, ct, mom, dwt, gr, N, in addition to pcs (counting mode), % (percent mode), SG (specific gravity)
- Battery operation (4 x AA alkaline batteries 1.5 V, approx. 250 hours)
- Auto power OFF function



EK-300AEP



EK-3000AEP

**-24%**

Type	Plate dimensions	Capacity	Readability	PK	Cat. No.	Price	Now
	mm	g	g			EUR	EUR
EK-300AEP	Ø 110	300	0.01	1	4.672 673	<del>1,395,00</del>	<b>1,053,89</b>
EK-3000AEP	133 x 170	3000	0.1	1	4.672 674	<del>1,395,00</del>	<b>1,053,89</b>
EK-12AEP	133 x 170	12000	1.0	1	4.672 675	<del>1,395,00</del>	<b>1,053,89</b>

## Balance brushes

Oval.



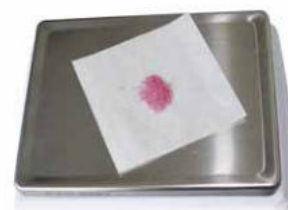
**-30%**

Type	Size	Diam.	PK	Cat. No.	Price	Now
		mm			EUR	EUR
Brush	1	5	1	2.600 069	<del>7,20</del>	<b>5,04</b>
Brush	2	6	1	2.666 807	<del>8,25</del>	<b>5,78</b>
Brush	4	9	1	6.074 169	<del>11,00</del>	<b>7,70</b>
Brush	6	12	1	6.266 808	<del>14,80</del>	<b>10,36</b>
Brush set*	2, 4, 6		1	6.266 825	<del>34,00</del>	<b>23,80</b>

\*consisting of one brush each size 2/6 mm, size 4/9 mm and size 6/12 mm

## LLG-Weighing paper

- Not treated with nitrogen during production
- Smooth surface
- 45 g/m<sup>2</sup> paper
- Block of 500 sheets



**-30%**

Dimensions (D x W)	PK	Cat. No.	Price	Now
			EUR	EUR
76 x 76	500	6.272 246	<del>21,60</del>	<b>15,12</b>
102 x 102	500	6.272 247	<del>25,70</del>	<b>17,99</b>
152 x 152	500	6.272 248	<del>33,10</del>	<b>23,17</b>



## Chest Freezers LT/XLT Series, up to -65 °C

Freezer for temporary to longer term storage or daily use. Ideal where space is limited, but the user still needs a regular storage capacity. The unit is easy to install. Due to the small footprint, transport through all standard sized doors is possible. The freezer also has four castors (XLT C75 without castors, with legs), which makes it very mobile. The material is galvanized and pre-coated steel on the outside, pre-coated white steel on the inside and cyclopentane for efficient insulation.

- Digital controller with display
- Audible and visual alarm
- High/low temperature alarm
- Porthole for external probe & CO<sub>2</sub> backup Ø12 mm
- Integrated lock
- Eco-friendly, HCFC-free Nature R refrigerant at -65 °C and HCFC-free R290 refrigerant at -45 °C
- ISO 9001, 14001 & 18001 OHSAS certified

**Extended exchange warranty - in warranty cases which cannot be quickly solved onsite the client receives a new unit.**

Please contact us to arrange a customised rack configuration.

### Specifications

Baskets:	1 (3 for LT C500 and XLT C300/C500/4 for XLT C400)
Internal humidity:	<5 %
Temperature probes:	1/PTC at -45 °C/1/PT 1000 at -65 °C
Noise level:	55 dB
Power supply:	230 V/50 Hz



LT C400

**-21%**

Type	Capacity	External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	Temp. range	Weight kg	PK	Cat. No.	Price	Now
	Litres			max. °C				EUR	EUR
LT C150	133	720 x 630 x 890	350 x 440 x 635	-45 ... -10	51	1	4.672 437	<del>1.814,00</del>	<b>1.439,42</b>
LT C200	189	920 x 630 x 890	550 x 440 x 635	-45 ... -10	65	1	4.672 438	<del>1.944,00</del>	<b>1.542,24</b>
LT C300	284	1260 x 630 x 890	890 x 440 x 635	-45 ... -10	71	1	4.672 439	<del>2.073,00</del>	<b>1.645,06</b>
LT C400	368	1560 x 630 x 890	1190 x 440 x 635	-45 ... -10	80	1	4.672 440	<del>2.430,00</del>	<b>1.927,80</b>
LT C500	476	1660 x 690 x 890	1290 x 500 x 640	-45 ... -10	108	1	4.672 441	<del>2.150,00</del>	<b>2.506,14</b>
XLT C75	71	555 x 580 x 900	390 x 390 x 465	-65 ... -30	48	1	4.672 430	<del>2.816,00</del>	<b>2.513,28</b>
XLT C150	133	720 x 630 x 890	350 x 440 x 635	-65 ... -30	56	1	4.672 431	<del>2.088,00</del>	<b>2.756,04</b>
XLT C200	189	920 x 630 x 890	550 x 440 x 635	-65 ... -30	65	1	4.672 432	<del>2.672,00</del>	<b>3.277,26</b>
XLT C300	284	1260 x 630 x 890	890 x 440 x 635	-65 ... -30	71	1	4.672 433	<del>3.744,00</del>	<b>3.341,52</b>
XLT C400	268	1560 x 630 x 890	1190 x 440 x 635	-65 ... -30	80	1	4.672 434	<del>4.080,00</del>	<b>3.641,40</b>
XLT C500	476	1660 x 690 x 890	1290 x 500 x 640	-65 ... -30	108	1	4.672 435	<del>5.088,00</del>	<b>4.541,04</b>

## Dewar flasks, cylindrical, for CO<sub>2</sub> and LN<sub>2</sub>



DURAN®. DIN EN ISO 16496.  
Cylindrical. With blue coated protective casing made of metal.

**-10%**

Type	Capacity	Int. diam. mm	Int. height mm	PK	Cat. No.	Price	Now
	ml					EUR	EUR
3 C	500	57	210	1	9.032 015	<del>97,60</del>	<b>88,29</b>
6 C	800	67	240	1	9.032 018	<del>108,62</del>	<b>98,22</b>
9 C	1000	77	235	1	9.032 021	<del>113,14</del>	<b>102,26</b>
12 C	1500	90	245	1	9.032 024	<del>156,15</del>	<b>141,14</b>
13 C	2000	90	340	1	9.032 025	<del>165,03</del>	<b>149,16</b>
15 C	1500	100	240	1	9.032 027	<del>159,71</del>	<b>144,35</b>
16 C	2000	100	290	1	9.032 028	<del>161,64</del>	<b>146,09</b>
18 C	2500	110	290	1	9.032 030	<del>194,49</del>	<b>175,78</b>
S 21 C	4000	138	310	1	9.032 033	<del>274,66</del>	<b>248,25</b>

## Protection Gloves Waterproof Cryo-Grip® Gloves



The Waterproof Cryo-Grip® Gloves are particularly suitable for handling cryogenic liquefied gases such as liquid nitrogen. The breathable lining ensures that hands stay dry. These Cryo-Grip Gloves offer the highest level of safety when handling cryogenic liquefied gases, together with dexterity, flexibility and better grip.

Package of 1 pair.

forearm length:	335 - 395 mm
elbow length:	440 - 500 mm

**-3%**

Description	Size	PK	Cat. No.	Price	Now
				EUR	EUR
forearm length	S	1	4.672 246	<del>239,50</del>	<b>232,56</b>
forearm length	M	1	4.672 247	<del>239,50</del>	<b>232,56</b>
forearm length	L	1	4.672 248	<del>239,50</del>	<b>232,56</b>
forearm length	XL	1	4.672 249	<del>245,50</del>	<b>238,39</b>
elbow length	S	1	4.672 250	<del>293,50</del>	<b>285,00</b>
elbow length	M	1	4.672 251	<del>293,50</del>	<b>285,00</b>
elbow length	L	1	4.672 252	<del>293,50</del>	<b>285,00</b>
elbow length	XL	1	4.672 253	<del>297,50</del>	<b>288,89</b>



## Recirculating chillers ULK

**FRYKA**



- **Low-Noise and Energy Efficient**
- **Safe: Freeze-up, Overheat and Dry-running Protection**
- **Visual Alarm with Audio**



For cooling applications and processes in laboratory and industry. Thanks to the space-saving design and the particularly quiet cooling unit, the chiller are ideally suited for installation directly at the workplace.

- Higher energy efficiency through fan with EC technology
- Pleasantly quiet and space saving
- Refrigeration unit: fully hermetically sealed, air-cooled, low maintenance
- Integrated funnel
- Self-sealing hose connector with quick coupling
- Touchscreen controller with high-grade glass screen and integrated flow and digital fill level indicators
- Freeze-up and thermal overload protection
- Flow control with dry running protection
- Optical and acoustical alarm
- MOD bus interface optionally available

Type	Working Temp. range °C	Pressure bar	Flow rate L / min.	Cooling capacity kW at 20 °C	PK	Cat. No.	Price EUR
ULK 602	-10 ... 40	0.6	10	650	1	6.284 440	<b>3.055,10</b>
ULK 1002	-10 ... 40	2.9	12	1200	1	6.284 441	<b>3.677,44</b>
ULK 2002	-10 ... 40	2.9	12	2300	1	6.284 442	<b>5.714,18</b>

## LLG- Floating pellets, PP



Pellets with 20 mm diameter. Can cover 0.1 m<sup>2</sup>. Protect against evaporation and rapid temperature loss. Decreases hazardous vapors. Resistant against most acids, bases, solvents and mineral oils. Temperature stable up to +100 °C.

**-30%**

Description	PK	Cat. No.	Price EUR	Now EUR
Floating pellets	250	6.266 611	<del>35,20</del>	<b>24,64</b>

## Heating circulators MAGIO MS and MX

**Julabo**



For precise temperature control of internal and external applications from 3 to 26 litres.

- Simple control of complex applications
- Infinitely adjustable, extremely powerful pressure and suction pump
- Large, high-resolution TFT touch display with multilingual user interface
- Medium-contacting parts made of stainless steel
- Integrated programmer
- External Pt100 connection
- USB interface
- RS232 interface
- Ethernet interface
- Analogue interfaces (optional)
- Classification III according to DIN 12876-1
- High quality thermal insulation of the bath tanks
- Integrated drain cock for easy and safe emptying

### Specifications:

Temperature stability:  
Temperature range:  
Flow rate:  
Pump pressure:  
Suction pressure:  
Heating capacity:  
Permissible ambient temperature:  
Power supply:

### MS-BC // MX-BC

±0.01 °C  
20 ... 300 °C  
16 ... 31 l/min  
0.24 ... 0.92 bar  
0.03 ... 0.4 bar  
2000 W // 3000 W  
5 ... 40 °C  
230 V/50 ... 60 Hz

Type	Filling volume L	Dimensions (W x D x H) mm	Bath opening mm	PK	Cat. No.	Price EUR
MS-BC4	3 ... 4.5	230 x 410 x 420	130 x 150	1	4.678 303	<b>3.843,22</b>
MX-BC6	4.5 ... 6	240 x 440 x 470	130 x 150	1	4.678 310	<b>4.387,77</b>
MX-BC12	8.5 ... 12	330 x 490 x 470	220 x 150	1	4.678 311	<b>4.597,21</b>
MX-BC26	19 ... 26	390 x 620 x 480	260 x 350	1	4.678 312	<b>4.921,84</b>

Manifolds Microsart®, stainless steel



SARTORIUS



- Completely Autoclavable
- Easy and Flexible Installation
- Compatible with Different Filter Models



For microbiological quality control. Quick connectors at both sides of the manifolds enable fast connections of either tubing, another manifold or end caps. Various funnel and filtration units are available.

- Full autoclavability without disassembly
- Sterile venting
- Reduced risk of secondary contamination
- Low working height
- Rubber feet providing better stability at the workplace

**Scope of supply:**  
**Microsart® Manifolds for Biosart® 100 monitors:** Manifold, filter base support with sinter frit, Biosart® adapter, blind coupling, 20 cm tubing and venting filter

**Microsart® Manifolds for Biosart® 250 funnels:** Manifold, filter base support with sinter frit, blind coupling, 20 cm tubing and plug for venting holes

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.	Price EUR
Microsart® Manifolds for Biosart® 100 monitors	1 branch	176 x 98 x 120	1	4.669 474	1.534,08
Microsart® Manifolds for Biosart® 100 monitors	3 branch	474 x 98 x 120	1	4.669 476	2.872,32
Microsart® Manifolds for Biosart® 100 monitors	6 branch	924 x 98 x 120	1	4.669 477	4.395,52
Microsart® Manifolds for Biosart® 250 funnels	1 branch	176 x 98 x 120	1	4.669 478	1.490,56
Microsart® Manifolds for Biosart® 250 funnels	3 branch	474 x 98 x 120	1	4.669 479	2.817,92
Microsart® Manifolds for Biosart® 250 funnels	6 branch	924 x 98 x 120	1	4.669 480	4.362,88

Dimensions without funnels and tubing.

Monitors Biosart® 100

SARTORIUS



Filtration unit for use with a Sartorius vacuum manifold or direct attachment to a special vacuum pump. Biosart® 100 Monitors have been specifically designed for the microbiological testing of pharmaceuticals, food, beverages, water and other liquids. These sterile disposable units with built-in membrane filter and cellulose pad are ready to use. After filtration, just remove the 100 ml funnel to convert the monitor into a petri dish.

Type	Diam. mm	Pore size µm	Colour Filter / Grid	PK	Cat. No.	Price EUR
K	47	0.45	white / black	48	9.049 300	150,96
ACK	47	0.20	white / black	48	9.049 311	233,58
ACK	47	0.45	white / black	48	9.049 312	233,58

ACK= individually sterile packed. K= sterile.

Filter funnels, Biosart® 250

SARTORIUS



For microbiological and analytical quality assurance in industry. 250 ml sterile plastic funnels reduce process time in colony and particle analysis.

Type	PK	Cat. No.	Price EUR
BioSart® 250 disposable funnel, sterile	50	9.049 340	80,99
BioSart® 250 disposable funnel, sterile, individually packed	50	9.049 341	94,96

## LLG-Filtering apparatus, borosilicate glass



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

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

**Scope of delivery:** Filter flask NS45/40, funnel 300 ml, filter holder NS45/40 with connector GL 14 and filter plate 47 mm (por. 2), clamp.

-30%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Filtering apparatus 1000 ml	1	6.291 850	<del>329,00</del>	<b>230,30</b>
LLG-Filtering apparatus 2000 ml	1	6.291 851	<del>379,00</del>	<b>265,30</b>

## LLG-Qualitative filter paper, circles



**Very fast, pore size 12 to 15 µm.**  
For coarse and voluminous precipitates like hydroxides and sulphides.

-30%

Diam.	Filtration time	PK	Cat. No.	Price	Now
mm	secs.			EUR	EUR
90	10	100	9.045 830	<del>7,00</del>	<b>4,90</b>
110	10	100	9.045 831	<del>8,10</del>	<b>5,67</b>
125	10	100	9.045 832	<del>9,90</del>	<b>6,93</b>
150	10	100	9.045 833	<del>12,20</del>	<b>8,54</b>
185	10	100	9.045 834	<del>14,70</del>	<b>10,29</b>

## LLG-Qualitative filter paper, circles



**Medium fast, pore size 5 to 13 µm.**  
For fast filtration with fine particles.

-30%

Diam.	Filtration time	PK	Cat. No.	Price	Now
mm	secs.			EUR	EUR
47	88	100	9.045 801	<del>5,05</del>	<b>3,54</b>
55	88	100	9.045 802	<del>5,25</del>	<b>3,68</b>
70	88	100	9.045 803	<del>5,55</del>	<b>3,89</b>
90	88	100	9.045 804	<del>6,25</del>	<b>4,38</b>
125	88	100	9.045 806	<del>7,40</del>	<b>5,18</b>
150	88	100	9.045 807	<del>10,80</del>	<b>7,56</b>
185	88	100	9.045 808	<del>14,70</del>	<b>10,29</b>
240	88	100	9.045 809	<del>25,20</del>	<b>17,64</b>

## LLG-Quantitative filter paper, circles



**Very fast, pore size 12 to 15 µm.**  
- For coarse, high volume precipitates  
- For determinations according to the German Standard Methods for the examination of water, waste water and sludge.  
- For  $\text{Fe}(\text{OH})_2$ ,  $\text{Al}(\text{OH})_3$ ,  $\text{NaSO}_4$   
- Ashless, equivalent black ribbon

-30%

Diam.	Filtration time	PK	Cat. No.	Price	Now
mm	secs.			EUR	EUR
70	10	100	9.045 840	<del>8,10</del>	<b>5,67</b>
90	10	100	9.045 841	<del>11,60</del>	<b>8,12</b>
110	10	100	9.045 842	<del>15,70</del>	<b>10,99</b>
125	10	100	9.045 843	<del>19,60</del>	<b>13,72</b>
150	10	100	9.045 844	<del>25,80</del>	<b>18,06</b>
185	10	100	9.045 845	<del>37,90</del>	<b>26,53</b>

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

SARTORIUS



-30%

Diam.	PK	Cat. No.	Price	Now
mm			EUR	EUR
125	100	9.049 403	<del>27,60</del>	<b>19,32</b>
150	100	9.049 404	<del>27,60</del>	<b>19,32</b>
185	100	9.049 405	<del>27,60</del>	<b>19,32</b>
240	100	9.049 406	<del>47,20</del>	<b>33,04</b>
270	100	9.049 407	<del>51,80</del>	<b>36,26</b>
320	100	9.049 408	<del>68,20</del>	<b>47,74</b>



## Anaerobic jars, stainless steel

schuett<sup>biotec</sup>.de



For the cultivation of anaerobic or microaerophilic microorganisms in a defined gas atmosphere which can be developed quickly. The tanks are made of robust stainless steel or transparent PC. The vessel lids are made of UV-stable plastic or transparent polycarbonate and are equipped with two angle valves including a hose olive for vacuum hoses (5 mm inner diameter) and a manometer for precise control of the vacuum or overpressure (-1 to +0.2 bar).

Anaerobic types: 3 x evacuation and gas flushing, gas flushing for 5 minutes and chemical gas generation (GasPacks).

Capacity	Int. diam.	Int. height	To hold dishes	PK	Cat. No.	Price	Now
l	mm	mm	quantity			EUR	EUR
3	120	270	15 (60-100 mm diam.)	1	9.520 056	<del>295,00</del>	<b>273,09</b>

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

-7%

## Accessories for anaerobic jars

Type	To hold dishes	PK	Cat. No.	Price	Now
	quantity			EUR	EUR
Rack "standard"	15 (60 to 100 mm dia.)	1	9.520 053	<del>45,00</del>	<b>42,43</b>
GasPack-Kit		10	9.520 064	<del>110,00</del>	<b>97,92</b>
"anaerobic" (1 x 3,5 l)					
GasPack-Kit "CO <sub>2</sub> " (1 x 2,5 l)		10	9.520 065	<del>110,00</del>	<b>97,92</b>
GasPack-Kit "microaerophil" (1 x 3,5 l)		10	9.520 066	<del>107,00</del>	<b>95,20</b>

-8%

## Inoculating Turntable

ISO LAB  
Laborgeräte GmbH



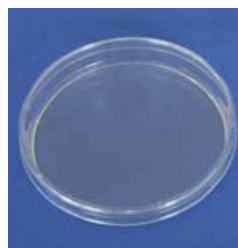
Double-sided construction accommodates petri dishes from 60 to 150 mm diameter by inverting the turntable. Ball bearings provide smooth and effortless spinning, ensuring rapid inoculation steps and extended operation life. Light weight but robust body manufactured from aluminum with non-skid footprint. The silicone pad holds the petri dishes firmly and always keeps the dish centered during inoculation steps.

-30%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Inoculating Turntable	1	6.286 850	<del>221,60</del>	<b>162,12</b>

## LLG-Petri dishes, PS

LLG  
LABWARE



Made of high quality optical clear polystyrene. Produced under aseptic conditions in an ISO 6 cleanroom. Contact plate with counting grid.

- With a smooth surface for an optimal distribution of the transport medium
- Stable thickness to prevent any deformations while using
- Stackable
- With or without vents
- Aseptic (90 mm diam.) or beta irradiated sterile versions (all sizes)
- Packed in sleeves á 10 dishes or 20 dishes (90 mm diam. dishes)

-30%

Ext. diam. mm	Description	Height approx. mm	PK	Cat. No.	Price	Now
					EUR	EUR
90	with triple vents, aseptic	16	480	6.285 823	<del>48,00</del>	<b>33,60</b>
90	without vents, aseptic	16	480	6.285 824	<del>48,00</del>	<b>33,60</b>
90	with triple vents, sterile	16	480	6.285 816	<del>63,30</del>	<b>44,31</b>
90	without vents, sterile	16	480	6.285 817	<del>63,30</del>	<b>44,31</b>
60	with triple vents, sterile	14	1080	4.678 371	<del>119,00</del>	<b>83,93</b>
60	without vents, sterile	14	1080	4.678 372	<del>119,00</del>	<b>83,93</b>
55	contact plate, sterile	17	1000	6.285 821	<del>225,70</del>	<b>157,99</b>

## LLG-Drigalski spatulas

LLG  
LABWARE



For easy plating.

-30%

Diam.	Width	Length	Material	PK	Cat. No.	Price	Now
mm	mm	mm				EUR	EUR
4	40.0	190	Stainless steel 18/10	1	9.197 490	<del>9,30</del>	<b>6,51</b>
4	51.5	174	PS, sterile*	100	6.251 768	<del>10,00</del>	<b>7,63</b>

\* individually packed

## UV sterilisation cabinets



- **Ideal for PCR Preparations**
- **Efficient Decontamination with UV Light**
- **Doors with Safety Switches**

These UV sterilisation cabinets provide a convenient area for setting up PCR reactions in a nucleic acid free environment thus limiting PCR reaction contamination. Acting effectively as a low cost alternative to a Cleanroom, the powerful UV lights on the cabinets denature nucleic acids in 5 to 30 minutes making them unsuitable for amplification. The cabinet incorporates safety features to prevent user exposure to UV light. The UV lights themselves are timer controlled and there are safety switches on the cabinets doors which turn off the UV lights when opened. Constructed from 10 mm acrylic, the cabinets also act as efficient shields from beta radiation emissions and can therefore be safely used with isotopes such as  $^{32}\text{P}$ .

### Specifications

UV Lights:	4 x 15 W
White Lights:	15
Dimensions (H x W x D):	770 x 580 x 420 mm
Weight:	19 kg

**-30%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
UV sterilisation cabinets Maxi with timer, four UV lights and white light	1	9.584 774	<del>2.311,00</del>	<b>1.618,33</b>
Radiation hazard tray yellow, 680 x 540 mm	1	9.584 788	<del>113,00</del>	<b>79,10</b>

## Thermocycler Alpha Cyclers



The Alpha Cyclers systems also contain a novel programme wizard which allows users to define a protocol based specifically on their primer sequence and template source. Primer sequences or T<sub>m</sub>'s are entered, amplicon length and source defined and the on board algorithm generates an optimised protocol for your assay.

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

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

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

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

### Specifications

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

**-12%**

Type	Description	Dimensions (W x D x H) mm	PK	Cat. No.	Price	Now
					EUR	EUR
AC196	1 x 96 well block	430 x 260 x 200	1	4.658 855	<del>4.909,40</del>	<b>4.339,83</b>
AC296	2 x 96 well blocks	470 x 535 x 330	1	4.658 857	<del>8.634,40</del>	<b>7.632,78</b>

## Single PCR tubes with attached caps, PP



0.2 ml and 0.5 ml PCR tubes with attached caps are compatible with leading thermocyclers with heated lids. The caps are easy to open and close without tools, yet ensure a tight fit to reduce sample evaporation. DNase-, DNA- and RNase-free.



**-18%**

Capacity	Description	Colour	PK	Cat. No.	Price	Now
ml					EUR	EUR
0.2	domed cap	clear	1000	9.409 370	<del>55,60</del>	<b>45,33</b>
0.2	flat cap	clear	1000	9.409 371	<del>45,70</del>	<b>36,07</b>
0.5	flat cap	clear	1000	9.409 372	<del>42,00</del>	<b>34,23</b>

## LLG-Electrical pipette *Plus*



Ergonomic and precise - the cordless and lightweight LLG-Electrical pipette *Plus* enables fast and exact pipetting with glass and plastic pipettes.

- UV resistant housing
- Fatigue-proof pipetting due to ergonomically shaped handle
- LED display with speed display: High, Low or Gravity mode (for free liquid flow without drive operation)
- Extremely quiet and powerful drive
- Low-Battery LED indicator

**Scope of supply:** Electrical pipette, Charger (5 V micro USB), Li-Ion battery, 5 coloured nose pieces, 3 membrane filters, adapter for 1 ml pipettes, benchtop rack, magnetic wall mounting

### Specifications

Membrane filters: PTFE/Ø 25 mm /0.45 µm  
Capacity: 1 to 100 ml, glass and plastic pipettes  
Pipette attachment: Polypropylene, autoclavable  
Dimensions: 15 x 152 x 41 mm  
Weight: approx. 200 g  
Power supply: rechargeable Li-Ion battery, 8 h continuous operation

**-30%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Electrical pipette <i>Plus</i>	1	9.281 041	<del>240,00</del>	<b>168,00</b>

## LLG-Serological pipettes, PS, sterile

Serological pipettes from LLG are ideally suited for sterile serological and cell culture applications. Easy to read graduation scales facilitate volume measurement and dosing. All LLG serological pipettes are plugged, sterile, pyrogen-free and have an increased volume capacity through extra graduations.

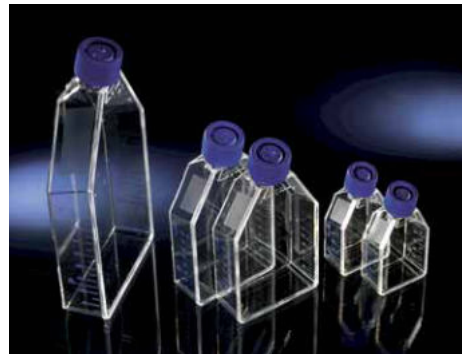


- 1 ml, 5 ml, 10 ml, 25 ml and 50 ml pipettes contain a bi-directional secondary graduation scale for precise dosing
- Colour coded ringmark for easy volume identification
- Single packed in easy-to-open plastic/paper packaging

**-30%**

Volume	Grad.	Colour code	Negative graduations	PK	Cat. No.	Price	Now
ml	ml					EUR	EUR
1	1/100	yellow	0.3	500	9.380 440	<del>56,00</del>	<b>39,20</b>
2	1/50	green	0.6	500	9.380 441	<del>67,20</del>	<b>47,04</b>
5	1/10	blue	3	200	7.930 401	<del>33,20</del>	<b>23,24</b>
10	1/10	orange	3	200	6.268 240	<del>52,90</del>	<b>37,03</b>
10	1/10	orange (wide mouth)	3	200	9.380 442	<del>44,80</del>	<b>31,36</b>
25	2/10	red	8	150	7.930 403	<del>53,30</del>	<b>37,31</b>
50	5/10	purple	10	100	9.380 443	<del>62,60</del>	<b>43,82</b>

## Cell Culture Flasks EasYFlask™, treated, PS/HDPE, sterile



Cell culture flasks with Nunclon™Δ. Surface modifications are certified pyrogen-free and tested for monolayer formation and cloning efficiency with primary and immortalized cell lines. Sterile. Bottleneck at an angle. Sterile.

Material flasks: Polystyrene

Material caps: HDPE

Cover type: Filter

Neck: Oblique

**-30%**

Working volume	Culture surface	Surface	PK	Cat. No.	Price	Now
ml	cm²				EUR	EUR
7	25	Nunclon™	200	9.390 331	<del>236,40</del>	<b>165,48</b>
25	75	Nunclon™	100	9.390 333	<del>199,20</del>	<b>139,44</b>
55	175	Nunclon™*	30	7.510 686	<del>106,60</del>	<b>74,62</b>
70	225	Nunclon™*	30	6.236 539	<del>224,40</del>	<b>157,08</b>

\* Batch no. and cat. no. printed on each flask.

## Cell culture flasks TripleFlask Nunclon™Δ Surface, PS/HDPE, sterile



Cell culture flasks with three parallel growth surfaces provide a total culture area of 500 cm² - with external dimensions of a 175 cm² standard flask. Certified pyrogen-free and tested for both monolayer formation and cloning efficiency employing primary cells as well as repeating cell lines. Sterile

Material flasks: Polystyrene

Material caps: HDPE

Cover type: Filter

Neck: Straight

**-30%**

Working volume	Culture surface	Surface	PK	Cat. No.	Price	Now
ml	cm²				EUR	EUR
200	500		32	9.390 351	<del>419,70</del>	<b>293,79</b>



## Filter units, PES membrane, sterile

These bottle-top filter units are ideally suited for the separation or purification of samples which are contained in large volumes. The units are available with either 0.22 µm or 0.45 µm pore sizes and 3 different volumes (250, 500 and 1000 ml).

### Features:

- Bottle-top filter and reservoir bottle are included
- Light weight and stable wall construction
- Large knurls on the reservoir bottle cap for easy screwing
- Wide bottle mouth for efficient pouring out
- Volume graduation
- Hose connector fits multiple diameters
- Pyrogen-free
- Membrane material: Polyethersulfone (PES)



**-30%**

Capacity	Pore size	Neck thread	PK	Cat. No.	Price	Now
ml	µm	mm			EUR	EUR
250	0.22	45	12	6.267 180	<del>81,50</del>	<b>57,05</b>
250	0.45	45	12	6.267 181	<del>81,50</del>	<b>57,05</b>
500	0.22	45	12	6.267 182	<del>134,50</del>	<b>94,15</b>
500	0.45	45	12	6.267 183	<del>134,50</del>	<b>94,15</b>
1000	0.22	45	12	6.267 184	<del>172,40</del>	<b>120,68</b>
1000	0.45	45	12	6.267 185	<del>169,70</del>	<b>118,79</b>

## Cell Culture Plates, treated, PS, sterile



These standard surface treated cell culture plates for the cultivation of adherent cells exhibit a reduced evaporation due to raised well rims and uniform rings on the lids.

- Available with 4-, 6-, 12-, 24-, 48- or 96-wells (lid included)
- Flat well bottom
- 96-well plate also available as round bottom plate (6.267 171)
- Single position lid reduces the risks of cross-contaminations
- Wells are labeled with alphanumeric code for easy identification
- Sterilized by gamma irradiation
- Pyrogen-free
- Material: Polystyrene

**-30%**

Working volume	Culture surface	No. of wells	PK	Cat. No.	Price	Now
ml	cm²				EUR	EUR
1.96	1.96	4	100	4.672 523	<del>150,90</del>	<b>105,63</b>
2.90	9.60	6	100	6.267 166	<del>122,40</del>	<b>85,68</b>
1.14	3.85	12	100	6.267 167	<del>121,30</del>	<b>91,91</b>
0.57	1.93	24	100	6.267 168	<del>169,10</del>	<b>118,37</b>
0.29	0.84	48	100	6.267 169	<del>120,50</del>	<b>90,65</b>
0.20	0.33	96	100	6.267 170	<del>110,10</del>	<b>77,07</b>
0.20	0.58	96	100	6.267 171	<del>181,50</del>	<b>127,05</b>

## Automated cell Counter EVE™ Plus

NanoEnTek



- **Fast Counting under 1 sec.**
- **Wi-Fi Data Transfer**
- **Storing 500 Results**



EVE™ Plus is a benchtop automatic cell counter designed to accurately and precisely measure cell count and viability of different cell cultures. It uses the standard trypan blue technique.

- Fine distinction of clumped cells: Accurate results with advanced analysis algorithm
- Touchscreen interface
- Auto save function up to 500 results
- Data transfer via Wi-Fi
- Acoustic signal after each count

### Specifications

Manual counting time:	1 second or less
Auto focus counting time:	10 seconds or less
Measuring range:	1 x 10 <sup>4</sup> ~ 2 x 10 <sup>7</sup> cells/ml
Zählbarer Zellgrößenbereich:	5 ~ 60 µm

Type	PK	Cat. No.	Price
Automated cell Counter EVE™ Plus	1	4.669 246	<b>3.307,52</b>

## Slides for automated Cell Counter EVE™

NanoEnTek



**-30%**

Description	PK	Cat. No.	Price	Now
Cell counting slides incl. 1 x 1.5 ml trypan blue (0.4 %) for 100 counts	50	6.284 818	<del>84,00</del>	<b>58,80</b>

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



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

- Improved image contrast due to multi-layer lens coating
- ESD compatible set ups available
- Various accessories available
- Observation Tube Binocular -/Phototube 45°, 360° rotating, F.N. 23
- Fixed optical split 50:50
- Widefield adjustable eyepieces WF10X/23 mm, incl. eyecups
- 6.7:1 Zoom ratio, WD=110 mm
- Objective magnification range: 0.75X-5X
- SMZ-171 Pole type stand with large working area and head holder
- Coarse focusing system with tension adjustment
- 3W incident and transmitted LED illumination with independent intensity controls
- Transmitted light with tilting reflector (oblique illumination)
- Option to adapt flexible light guide
- Main supply 100 V-240 V (CE)
- Black/White and frosted glass stage plates, and dust cover

-18%

Type	Description	PK	Cat. No.	Price	Now
				EUR	EUR
SMZ-171-BLED	Binocular	1	6.264 087	<del>1,126,00</del>	<b>928,01</b>
SMZ-171-TLED	Trinocular	1	7.671 016	<del>1,190,00</del>	<b>980,75</b>

## C-Mount camera adapters to SMZ-171 series



-18%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Adapter C-Mount 0.5x	1	7.626 193	<del>136,00</del>	<b>112,09</b>
Adapter C-Mount 0.65x	1	6.243 486	<del>136,00</del>	<b>112,09</b>

## USB Handheld microscope with integrated 2 megapixels camera, D-EL1 ecoline

- With integrated LED illumination and Motic application software
- Sensor CMOS 1/3"
- 2 megapixel with USB 2.0 output
- Illumination 8-LED in ring formation with 2-step brightness control
- Power direct from computer through USB 2.0 connection
- Soft-grip focus wheel
- Direct capture button
- 2 Steps First Magnification 10x-50x. Second magnification at 200x (depending on screen size)
- Motic EcoLine Tool application software
- Can be used on a Mac with preinstalled application Photo Booth



Calibration slide and metal stand included.

-18%

Type	PK	Cat. No.	Price	Now
			EUR	EUR
D-EL1 ecoline	1	9.727 034	<del>93,00</del>	<b>76,65</b>

## Microscope Cameras MOTICAM S

The next generation of Moticams offers solutions for a wide variety of applications in digital microscopy. Compact and robust, equipped with high-quality sCMOS sensors with many different resolutions and fast USB 3.1 connection.



-18%

Type	Resolution	Sensor format	PK	Cat. No.	Price	Now
					EUR	EUR
S1	1.2 MP (max. 1280 x 950 px)	1/3" sCMOS	1	4.672 118	<del>385,00</del>	<b>317,30</b>
S3	3 MP (max. 2448 x 1536 px)	1/2.8" sCMOS	1	4.672 119	<del>482,00</del>	<b>398,07</b>
S6	6 MP (max. 3072 x 2048 px)	1/1.8" sCMOS	1	4.672 120	<del>606,00</del>	<b>499,45</b>
Pro S5 Lite	5 MP (max. 2448 x 2048 px)	2/3" sCMOS	1	4.672 121	<del>949,00</del>	<b>782,12</b>

## Lens Cleaning Tissues 9963

- Suitable for all kind of oculars
- Silicone-free
- 100 individually sealed tissues in a box
- Incl. clip for wall mounting



-30%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Cleaning tissues 9963	100	6.200 654	<del>34,40</del>	<b>24,08</b>

## Viscosimeters ROTAVISC

Viscosimeters with a large range of functions to determine the viscosity of liquids in all areas of application, ranging from laboratory to quality control. The devices are suited for different viscosity ranges.

- Highest measurement accuracy
- Stepless speed adjustment
- 4.3" TFT display
- Digital level
- Simple ramp function
- With connection for ext. PT100 sensor

### Scope of supply:

Viscosimeter incl. standard spindle set, protective bracket, temperature sensor and ROTASTAND stand.



### Specifications

Rotation speed:	0.01 ... 200 rpm
Temperature range:	-30 ... +300 °C
Accuracy:	1 %
Repeatability:	0.2 %
Stroke max.:	200 mm
Dimensions stand (L x W x H):	351 x 372 x 629 mm
Weight:	7.1 kg
Power supply:	100 ... 240 V, 50/60 Hz
IP code acc. to DIN EN 60529:	IP 40

**-18%**

Type	Viscosity range mPas	Torque mNm	PK	Cat. No.	Price EUR	Now EUR
ROTAVISC lo-vi Complete	1 ... 6,000,000	0.0673	1	4.662 322	<del>3,144,00</del>	<b>2,565,50</b>
ROTAVISC me-vi Complete	100 ... 40,000,000	0.7187	1	4.662 323	<del>3,144,00</del>	<b>2,565,50</b>
ROTAVISC hi-vi I Complete	200 ... 80,000,000	1.4374	1	4.662 324	<del>3,144,00</del>	<b>2,565,50</b>
ROTAVISC hi-vi II Complete	800 ... 320,000,000	5.7496	1	4.662 325	<del>3,144,00</del>	<b>2,565,50</b>

## LLG-uniREFRACTO 5 pro



- 3 Scales
- Free Choice from 45 scales



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. All three scales can be freely selected and changed. 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

**-30%**

Type	PK	Cat. No.	Price EUR	Now EUR
LLG-uniREFRACTO 5 pro	1	6.263 632	<del>395,00</del>	<b>276,50</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 Certificate of Analysis
- Compatible with any brand of Refractometer
- 12 month shelf life
- Provided in high quality HDPE 15 ml dropper bottles



**Reagecon**  
Delivering the Correct Result

**-16%**

Brix %	Refractive Index at 20 °C	PK	Cat. No.	Price EUR	Now EUR
0	1.332986 nD	1	6.264 212	<del>71,30</del>	<b>60,18</b>
5	1.340264 nD	1	6.265 876	<del>71,30</del>	<b>60,18</b>
10	1.347824 nD	1	6.257 923	<del>71,30</del>	<b>60,18</b>
15	1.355679 nD	1	6.263 260	<del>71,30</del>	<b>60,18</b>
20	1.363842 nD	1	6.264 889	<del>71,30</del>	<b>60,18</b>
30	1.381149 nD	1	6.258 368	<del>71,30</del>	<b>60,18</b>
40	1.399860 nD	1	7.660 408	<del>71,30</del>	<b>60,18</b>
50	1.420087 nD	1	6.258 369	<del>71,30</del>	<b>60,18</b>
60	1.441928 nD	1	6.265 875	<del>71,30</del>	<b>60,18</b>



## Scanning Spectrophotometers Series 72, VIS and UV-Vis



The 72 series spectrophotometers offer measurement modes for single wavelength with basic absorbance and % transmittance; concentration determination (via reference standards or calibration curves with up to 6 standards), full spectrum scanning and kinetics for up to 3 simultaneous wavelength measurements.

The colour touchscreen user interface provides fast and easy set up and navigation of the instrument. The 4" display allows full spectrum scans, quantitation curves and kinetics runs to be viewed easily. The sample chamber lid can also be left open during measurements which is ideal for samples in tall test tubes.

Including two USB ports for data storage and printer connectivity.

- Scanning diode array detector (DAD)
- Colour Touchscreen navigation
- Small footprint and lightweight
- Fast scan speed
- Multiple USB ports for data storage and printer connectivity
- 2 years warranty on the instrument

### Specifications

Optical system:	Single beam
<b>Wavelength Range:</b>	
7200 (VIS):	335 to 800 nm
7205 (UV-VIS):	198 to 800 nm
Resolution:	±2 nm
Repeatability:	±2 nm
Spectral bandwidth:	
7200 (VIS):	7 nm
7205 (UV-VIS):	5 nm
<b>Photometric range:</b>	-0.300 to 2500 A
Accuracy:	±0.01 A at 1.0 A and 546 nm
Stability:	±0.005 A/h bei 0.04 A and 546 nm
Stray Light at 340 nm, %T:	< 1 % T acc. ANSI/ASTM E387-72
<b>Concentration range:</b>	±2500
<b>Quantitation:</b>	±2500
<b>Kinetics:</b>	15 bis 99999 s
<b>Light source:</b>	
7200 (VIS):	Tungsten halogen lamp
7205 (UV-VIS):	Xenon lamp
<b>Outputs:</b>	2 x USB
<b>Dimension (W x D x H):</b>	212 x 422 x 120 mm
<b>Weight:</b>	2.8 kg
<b>Power supply:</b>	100-240 V, 50/60 Hz
<b>Warranty:</b>	2 Years

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Spectrophotometer 7200 (VIS)	1	6.283 459	<del>2,210,60</del>	<b>1.973,63</b>
Spectrophotometer 7205 (UV-VIS)	1	6.286 777	<del>2,994,50</del>	<b>2.593,18</b>

## LLG-Disposable plastic cells, PS



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

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



-30%

Description	Capacity	Path length	Operating range	PK	Cat. No.	Price	Now
	ml	mm	nm			EUR	EUR
Macro	4.0	10	340 to 900	100	9.406 011	<del>9,80</del>	<b>6,86</b>
Semi-micro	1.6	10	340 to 900	100	9.406 012	<del>10,50</del>	<b>7,35</b>

## Cuvette rack with attached lid, PP



For safe handling and holding up to 12 cuvettes with a 10 mm light path.

-30%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Cuvette rack with attached lid	1	6.267 353	<del>15,20</del>	<b>10,64</b>

## Cuvette rack, PP



Grey. 16 numbered positions.

-18%

Width	Length	Height	PK	Cat. No.	Price	Now
mm	mm	mm			EUR	EUR
70	210	38	1	9.145 020	<del>9,55</del>	<b>7,79</b>

## Microliter pipettes, Transferpette® S, variable, Starter-kits



- Volume Adjustment Protection
- Universal Tip Cone
- Fully Autoclavable at 121 °C

Low operating forces and a short stroke ensure relaxed pipetting, even during long pipetting series.

- One-hand operation for right- and left-handed users
- Volume-change protection
- Easy Calibration technology: Calibration without tools
- Universal tip cone
- Completely autoclavable at 121 °C
- Color code on volume adjustment wheel, shaft and volume-change protection
- DE-M marking



**Starter kit micro:** 3 x pipettes (0.1 - 2.5 µl, 0.5 - 10 µl, 10 - 100 µl), 3 shelf mounts

**Starter kit standard:** 3 x pipettes (0.5 - 10 µl, 10 - 100 µl, 100 - 1000 µl), 3 shelf mounts

**Starter kit midi:** 3 x pipettes (2 - 20 µl, 20 - 200 µl, 100 - 1000 µl), 3 shelf mounts

**Starter kit macro:** 3 x pipettes (100 - 1000 µl, 500 - 5000 µl, 1000 - 10000 µl), 3 shelf mounts

**Pipette package 1:** 5 x pipettes (0.1 - 2.5 µl, 0.5 - 10 µl, 2 - 20 µl, 20 - 200 µl, 100 - 1000 µl), table stand for 6 pipettes

**-18%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
Starter kit micro	1	9.280 160	<del>674,00</del>	<b>549,98</b>
Starter kit standard	1	9.280 163	<del>653,00</del>	<b>532,85</b>
Starter kit midi	1	9.280 161	<del>637,00</del>	<b>519,79</b>
Starter kit macro	1	9.280 162	<del>674,00</del>	<b>549,98</b>
Pipette package 1	1	9.280 164	<del>1.100,00</del>	<b>897,60</b>

## LLG-Disposable Reagent reservoirs economy, PS



Made from polystyrol. Angled sides and a V-shaped bottom allow maximum recovery of reagents. All reservoirs have internal graduated volume lines and pour-spouts on the corners. 25 ml or 50 ml versions. Available as sterile and non-sterile versions.

- DNase-, RNase- and pyrogen-free certified

**-30%**

Description	Capacity	PK	Cat. No.	Price	Now
	ml			EUR	EUR
non-sterile, bulk	25	100	6.282 144	<del>45,40</del>	<b>31,78</b>
sterile, single packed	25	100	6.282 145	<del>92,70</del>	<b>64,89</b>
non-sterile, bulk	50	100	6.282 146	<del>58,40</del>	<b>40,88</b>
sterile, single packed	50	100	6.282 147	<del>120,90</del>	<b>84,63</b>

## LLG-Labware pipette tips, economy 2.0, PP



The new generation of LLG Labware Pipette tips economy.

Available in bulk quantities in bags or in easy-to-open boxes with color coded racks. Racked-tip boxes are delivered in a dispenser, which can be opened from two sides facilitating the use of the product on two work spaces. Compatible with all common pipette brands. You can find the appropriate compatibility list on [www.llg-labware.com](http://www.llg-labware.com) in the Downloads section.

- Improved optical clarity and pipette fit
- Colored coded rack inserts for easy identification
- Graduated (5 and 10 ml tips without graduation)
- Autoclavable
- DNase and RNase free
- Non sterile

**-30%**

Capacity	Colour	Package contents	PK	Cat. No.	Price	Now
µl					EUR	EUR
0.1 ... 10	transparent	1000 tips in bag	1000	4.668 775	<del>14,80</del>	<b>10,36</b>
0.1 ... 10	transparent	10 x 96 tips in rack	960	4.668 776	<del>48,50</del>	<b>33,95</b>
1 ... 200	transparent	10 x 96 tips in rack	960	4.668 778	<del>42,20</del>	<b>29,54</b>
1 ... 200	yellow	1000 tips in bag	1000	4.668 777	<del>11,80</del>	<b>8,26</b>
1 ... 200	yellow	10 x 96 tips in rack	960	4.668 779	<del>42,20</del>	<b>29,54</b>
100 ... 1000	transparent	1000 tips in bag	1000	4.668 780	<del>13,80</del>	<b>9,66</b>
100 ... 1000	transparent	8 x 96 tips in rack	768	4.668 782	<del>36,90</del>	<b>25,83</b>
100 ... 1000	blue	1000 tips in bag	1000	4.679 861	<del>13,80</del>	<b>9,66</b>
100 ... 1000	blue	8 x 96 tips in rack	768	4.668 783	<del>36,90</del>	<b>25,83</b>
100 - 5000*	clear	1 bag of 250	250	9.409 097	<del>20,10</del>	<b>14,85</b>
100 - 5000**	clear	1 bag of 250	250	6.254 364	<del>20,10</del>	<b>14,85</b>
1000 - 10000	clear	1 bag of 100	100	9.409 098	<del>17,00</del>	<b>11,90</b>

\*for manual pipettors

\*\*for electronic pipettors

## Storage system "MultiStore"



White, made of highly impact resistant plastic. Tilt bins made of crystal clear PS.

- For small components and accessories e.g. in industries, hospitals and laboratories
- Dust-free and clean storage of contents
- Multifunctional for individual storage solutions

**-30%**

Description	External dimensions (W x D x H) mm	Dimensions* (W x D x H) mm	PK	Cat. No.	Price	Now
					EUR	EUR
4 tilt bins	601 x 171.5 x 206	125.5 x 128 x 133.5	1	9.301 553	<del>50,50</del>	<b>35,35</b>
3 tilt bins	601 x 198 x 238	176 x 149 x 161	1	9.301 554	<del>69,30</del>	<b>48,51</b>
2 tilt bins	601 x 310.5 x 353	265 x 221 x 241	1	9.301 555	<del>145,60</del>	<b>101,92</b>

\*Dimensions of each single tilt bin

## LLG-Pasteur Pipettes, PE, non-sterile



**-30%**

Graduated.

Capacity	Length	PK	Cat. No.	Price	Now
ml	mm			EUR	EUR
1	150	500	4.672 670	<del>22,00</del>	<b>15,40</b>
3	150	500	4.672 671	<del>18,00</del>	<b>12,60</b>

## LLG-Pasteur pipettes, Soda-lime-glass



Single use. With uniform shape and length. With long drawn, 1.1 mm diameter fine tip, 20 mm suction tube and constriction for tight fitting of cotton wool plugs.  
External diameter: 7.1 mm.  
Please order pipette teats separately.

**-30%**

Length	Acc. to	PK	Cat. No.	Price	Now
mm				EUR	EUR
150	ISO 7712	1000	9.411 015	<del>44,50</del>	<b>31,15</b>
230	ISO 7712	1000	9.411 020	<del>47,90</del>	<b>33,53</b>

## LLG-Safety pipette bulb, rubber, red



6.270 265

6.270 266

Chemically resistant rubber. With valves for suction, emptying and air release, controlled by thumb and finger pressure.

**-30%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-Safety pipette bulb, normal	1	6.270 265	<del>9,50</del>	<b>6,65</b>
LLG-Safety pipette bulb, universal	1	6.270 266	<del>9,90</del>	<b>6,93</b>

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



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

**-30%**

Nominal capacity	Tolerance	Length	PK	Cat. No.	Price	Now
ml	± ml	mm			EUR	EUR
1	0.007	310	10	6.272 207	<del>39,00</del>	<b>27,30</b>
2	0.010	330	10	6.272 208	<del>39,00</del>	<b>27,30</b>
3	0.010	360	10	6.272 209	<del>40,00</del>	<b>28,00</b>
4	0.015	360	10	6.272 210	<del>41,00</del>	<b>28,70</b>
5	0.015	400	10	6.272 211	<del>42,00</del>	<b>29,40</b>
10	0.020	440	10	6.272 212	<del>46,00</del>	<b>32,20</b>
15	0.030	455	10	6.272 213	<del>63,00</del>	<b>44,10</b>
20	0.030	510	10	6.272 214	<del>65,00</del>	<b>45,50</b>
25	0.030	520	10	6.272 215	<del>67,00</del>	<b>46,90</b>
50	0.050	540	10	6.272 216	<del>90,00</del>	<b>63,00</b>

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



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

**-30%**

Nominal capacity	Graduations	Tolerance	Length	PK	Cat. No.	Price	Now
ml	ml	± ml	mm			EUR	EUR
1	0.01	0.007	360	10	6.272 200	<del>33,00</del>	<b>23,10</b>
2	0.02	0.01	360	10	6.272 201	<del>34,00</del>	<b>23,80</b>
5	0.05	0.03	360	10	6.272 202	<del>38,00</del>	<b>26,60</b>
10	0.1	0.05	360	10	6.272 203	<del>40,00</del>	<b>28,00</b>
20	0.1	0.1	450	10	6.272 204	<del>68,00</del>	<b>47,60</b>
25	0.1	0.1	450	10	6.272 205	<del>69,00</del>	<b>48,30</b>
50	0.1	0.2	720	10	6.272 206	<del>228,00</del>	<b>159,60</b>

## Pipette teats

DEUTSCH & NEUMANN D&N



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

**-30%**

Capacity	Colour	Material	PK	Cat. No.	Price	Now
ml					EUR	EUR
2	red	NR/Latex	100	4.661 160	<del>86,00</del>	<b>60,20</b>
2	transparent/white	VMQ	10	9.072 682	<del>34,00</del>	<b>23,80</b>



## Measuring cylinders, PP, tall form, class B, blue graduated



**ISOLAB**  
Laborgeräte GmbH



Tall form, highly transparent, with blue graduations, hexagonal base, calibrated to contain (IN). Tolerances class B according to DIN 12681/ISO 6706. Exposure to temperatures above 60 °C may effect accuracy. Cleaning up to max. 60 °C is recommended to preserve marks and inscriptions.

**-30%**

Capacity	Tolerance	Height	PK	Cat. No.	Price	Now
ml	± ml	mm			EUR	EUR
25	0.500	160	1	9.274 081	<del>5,60</del>	<b>3,92</b>
50	1.000	195	1	9.274 082	<del>6,00</del>	<b>4,20</b>
100	1.000	240	1	9.274 083	<del>7,20</del>	<b>5,04</b>
250	2.000	320	1	9.274 084	<del>11,80</del>	<b>8,26</b>
500	5.000	380	1	9.274 085	<del>14,40</del>	<b>10,08</b>
1000	10.000	465	1	9.274 086	<del>26,70</del>	<b>18,69</b>

## Mixing cylinders, borosilicate glass 3.3, tall form, class A, blue graduated



All BLAUBRAND® cylinders are supplied with batch number and one batch certificate per packing unit.

- DIN EN ISO 4788
- DE-M marking
- PP stoppers and hexagonal foot
- Graduations and inscriptions in highly contrasting blue enamel
- Calibrated to contain (IN)

**-30%**

Capacity	Grad.	Height	Neck	PK	Cat. No.	Price	Now
ml	ml	mm	NS			EUR	EUR
10	0.2	160	10/19	2	4.680 315	<del>41,60</del>	<b>29,12</b>
25	0.5	190	14/23	2	4.680 316	<del>43,80</del>	<b>30,66</b>
50	1	220	19/26	2	4.680 317	<del>49,90</del>	<b>34,93</b>
100	1	285	24/29	2	4.680 318	<del>54,80</del>	<b>38,36</b>
250	2	350	29/32	2	4.680 319	<del>79,90</del>	<b>55,93</b>
500*	5	395	34/35	2	4.680 320	<del>112,10</del>	<b>78,47</b>
1000*	10	500	45/40	2	4.680 321	<del>197,10</del>	<b>137,97</b>

\* Fitted with PE octagonal stoppers.

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



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)

**-30%**

Nominal capacity	Tolerance	Joint size (NS)	PK	Cat. No.	Price	Now
ml	± ml				EUR	EUR
1	0.025	7/16	2	4.680 322	<del>35,20</del>	<b>24,64</b>
2	0.025	7/16	2	4.680 323	<del>35,20</del>	<b>24,64</b>
5	0.025	7/16	2	4.680 324	<del>35,20</del>	<b>24,64</b>
10	0.04	10/19*	2	4.680 325	<del>36,00</del>	<b>25,20</b>
20	0.04	10/19	2	4.680 326	<del>37,00</del>	<b>26,53</b>
25	0.04	10/19	2	4.680 327	<del>37,00</del>	<b>26,53</b>
30	0.06	12/21	2	4.680 328	<del>39,40</del>	<b>27,58</b>

\* Wide neck version

## Volumetric flasks VITLAB® UV-protect, PMP, Class A with NS stoppers, PP



**VITLAB**  
Competence in Labware



UV-absorbing, highly transparent. For storing light-sensitive substances. With printed lot number and batch certificate.

- DIN EN ISO 1042
- DE-M marked
- With PP-NS stopper
- Graduation and lettering in high-contrast white
- Adjusted to IN

**-30%**

Capacity	Tolerance	Height	NS	PK	Cat. No.	Price	Now
ml	± ml	mm				EUR	EUR
10	0.04	90	10/19	1	9.276 970	<del>19,90</del>	<b>13,93</b>
25	0.04	115	10/19	1	9.276 971	<del>20,80</del>	<b>14,56</b>
50	0.06	150	12/21	1	9.276 972	<del>22,90</del>	<b>16,03</b>
100	0.10	180	14/23	1	9.276 973	<del>24,80</del>	<b>17,36</b>
250	0.15	235	19/26	1	9.276 974	<del>29,80</del>	<b>20,86</b>
500	0.25	270	19/26	1	9.276 975	<del>35,30</del>	<b>24,71</b>
1000	0.40	310	24/29	1	9.276 976	<del>56,20</del>	<b>39,34</b>

## LLG-Disposable syringes, 3-parts, PP, non-sterile, bulk



- Barrel: PP, Plunger: PP and Polyisoprene rubber
- Latex-free, pyrogen-free, DEHP-free, non-toxic
- Suitable for all syringe filters with Luer connection
- Non-sterile, bulk packed in box of 500
- Luer-Lock according to DIN EN 1707
- Luer-Slip according to DIN EN 20594-1

**-30%**

Capacity ml	Nozzle type	PK	Cat. No.	Price EUR	Now EUR
2	Luer-Slip	500	6.267 267	<del>43,20</del>	<b>30,24</b>
5	Luer-Slip	500	6.267 268	<del>47,50</del>	<b>33,25</b>
10	Luer-Slip	500	6.267 269	<del>73,30</del>	<b>51,31</b>
20	Luer-Slip	500	6.267 270	<del>98,00</del>	<b>68,60</b>
2	Luer-Lock	500	6.286 616	<del>43,20</del>	<b>30,24</b>
5	Luer-Lock	500	6.286 617	<del>47,50</del>	<b>33,25</b>
10	Luer-Lock	500	6.286 618	<del>73,30</del>	<b>51,31</b>
20	Luer-Lock	500	6.286 619	<del>98,00</del>	<b>68,60</b>

## LLG-2in1 KITs with crimp neck vials ND11 (wide opening)

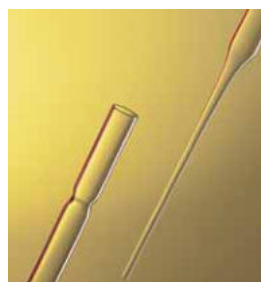


2in1 KITs contain 100 vials (1.5 ml) and 100 closures in an orange PP-Box. As both components are always required at the same time, 2in1 KITs are a convenient way to obtain and store all required items for analysis. All advantages of the individual components (cleanroom packaging of the vials, recloseability of the packaging, etc.) remain unchanged.

**-30%**

Description	Cover type	PK	Cat. No.	Price EUR	Now EUR
clear	Crimp Cap, silver, hole, Natural Rubber red-orange / TEF transparent	100	6.257 139	<del>17,40</del>	<b>12,18</b>
clear	Crimp Cap, silver, hole, Natural Rubber / Butyl red-orange / TEF transparent	100	9.003 564	<del>18,50</del>	<b>12,95</b>
amber, labelling field	Crimp Cap, silver, hole, Natural Rubber red-orange / TEF transparent	100	9.003 566	<del>20,80</del>	<b>14,56</b>

## NMR Pasteur pipettes, Soda-lime glass



**Extra Long Tip for NMR Applications**

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

Length mm	PK	Cat. No.	Price EUR
300	1000	4.672 077	<b>989,93</b>
350	1000	4.672 078	<b>1.650,52</b>

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



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

Outer diam. mm	Int. diam. mm	Length mm	Wall thickness mm	PK	Cat. No.	Price EUR
2.95 ± 0.03	2.36 ± 0.03	178	0.29	50	6.281 792	<b>122,07</b>
2.95 ± 0.03	2.36 ± 0.03	203	0.29	50	6.281 793	<b>134,83</b>
4.95 ± 0.05	4.19 ± 0.05	178	0.38	100	9.400 310	<b>112,09</b>
4.95 ± 0.05	4.19 ± 0.05	203	0.38	100	9.400 311	<b>119,86</b>

## Closing caps for 3 and 5 mm NMR tubes



**-15%**

For	Colour	PK	Cat. No.	Price EUR	Now EUR
3 mm tubes	red	50	6.282 148	<del>3,75</del>	<b>3,18</b>
3 mm tubes	green	50	6.282 149	<del>3,75</del>	<b>3,18</b>
5 mm tubes	red	100	9.400 312	<del>6,40</del>	<b>5,18</b>
5 mm tubes	yellow	100	9.400 314	<del>6,40</del>	<b>5,18</b>

## Syringeless filters SEPARA



SEPARA integrates in a single unit Auto-Sampler vial, filtration membrane, flask and cap/Septa. Low sample loss. The slotted septum cap ensures easy and clean sample transfer, PP vials with Ø 12 x 33 mm, filter volume 0.48 ml, dead volume <30 µl, maximum operating temperature 50 °C

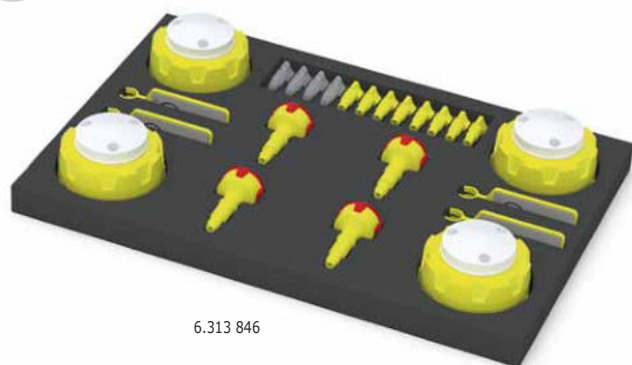
-4%

Membrane	Pore size µm	Colour	PK	Cat. No.	Price EUR	Now EUR
Nylon	0.22	light blue	100	6.287 339	<del>127,40</del>	<b>122,64</b>
PTFE	0.22	pink	100	6.287 340	<del>127,40</del>	<b>122,64</b>
Regen. Cellulose	0.22	grey	100	6.287 341	<del>127,40</del>	<b>122,64</b>
PVDF	0.22	yellow	100	6.287 342	<del>127,40</del>	<b>122,64</b>
PES	0.22	light green	100	6.287 343	<del>127,40</del>	<b>122,64</b>
Nylon	0.45	blue	100	6.287 344	<del>127,40</del>	<b>122,64</b>
PTFE	0.45	red	100	6.287 345	<del>127,40</del>	<b>122,64</b>
Regen. Cellulose	0.45	black	100	6.287 346	<del>127,40</del>	<b>122,64</b>
PVDF	0.45	orange	100	6.287 347	<del>127,40</del>	<b>122,64</b>
PES	0.45	green	100	6.287 348	<del>127,40</del>	<b>122,64</b>

## B.safe-Caps Starter Boxes, GL 45, PPS



**Complete Set**



6.313 846

Initial equipment for HPLC with b.safe-Caps for bottles with thread GL 45. Furthermore fittings for easy connection of capillary tubing, blind fittings for closing unused connections and air valves for a trouble-free withdrawal of solvents are included. For up to 4 storage bottles.

### Scope of supply:

#### Starter Box 1:

- 3 x b.safe-Cap GL 45 with 2 connections UNF ¼" 28G
- 1 x b.safe-Cap GL 45 with 3 connections UNF ¼" 28G
- 4 x Air valve with service life indicator
- 5 x Fittings yellow for tubing O.D. 3.2 mm
- 1 x Blind fitting

#### Starter Box 2:

- 4 x b.safe-Cap GL 45 with 3 connections UNF ¼" 28G
- 8 x Air valve with service life indicator
- 4 x Fittings yellow for tubing O.D. 3.2 mm
- 4 x Blind fittings

-10%

Type	Thread	PK	Cat. No.	Price EUR	Now EUR
Starter Box 1	GL 45	1	6.313 845	<del>235,80</del>	<b>212,53</b>
Starter Box 2	GL 45	1	6.313 846	<del>264,30</del>	<b>238,31</b>

## Exhaust filters for SafetyWasteCaps



4.669 383



6.316 369

The S.C.A.T. active carbon is optimised to adsorb organic solvents, and offers an active filtering surface of 1200 m²/g. Supply pack with change indicator + splash guard

-2%

Filter size	Life time	Neck thread	PK	Cat. No.	Price EUR	Now EUR
S	3 months	GL	4	6.316 369	<del>212,00</del>	<b>207,74</b>
M	6 months	GL	2	4.669 383	<del>152,20</del>	<b>148,16</b>

## Laboratory bottles, DURAN®, with retrace code, with screw cap



With blue PP screw cap and pouring ring.

-25%

Capacity ml	Diam. mm	Height with cap mm	Neck thread GL	PK	Cat. No.	Price EUR	Now EUR
25 *	36	74	25	10	4.679 006	<del>70,00</del>	<b>52,36</b>
50	46	91	32	10	4.679 003	<del>74,60</del>	<b>55,76</b>
100	56	105	45	10	4.679 004	<del>63,90</del>	<b>47,74</b>
250	70	143	45	10	4.679 005	<del>71,60</del>	<b>53,58</b>
500	86	181	45	10	4.679 007	<del>89,00</del>	<b>66,50</b>
1000	101	230	45	10	4.679 010	<del>126,20</del>	<b>94,38</b>
2000	136	265	45	10	4.679 008	<del>206,00</del>	<b>222,09</b>

\*With specially shaped glass edge for improved pouring out (so that an additional plastic pouring ring is not required).

## Hand brushes, PP



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

-30%

Bristle length mm	Overall length mm	Width mm	Height mm	Colour	PK	Cat. No.	Price EUR	Now EUR
50	330	35	110	green	1	4.666 176	<del>9,05</del>	<b>6,34</b>
50	330	35	110	blue	1	4.666 177	<del>9,05</del>	<b>6,34</b>
50	330	35	110	red	1	4.666 178	<del>9,05</del>	<b>6,34</b>
50	330	35	110	white	1	4.666 179	<del>9,05</del>	<b>6,34</b>
50	330	35	110	yellow	1	4.666 180	<del>9,05</del>	<b>6,34</b>

## Dustpans, PP



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

-30%

Length mm	Colour	PK	Cat. No.	Price EUR	Now EUR
330	green	1	4.666 171	<del>10,70</del>	<b>7,49</b>
330	blue	1	4.666 172	<del>10,70</del>	<b>7,49</b>
330	red	1	4.666 173	<del>10,70</del>	<b>7,49</b>
330	white	1	4.666 174	<del>10,70</del>	<b>7,49</b>
330	yellow	1	4.666 175	<del>10,70</del>	<b>7,49</b>

## Draining Racks, PE-coated wire



Wall or bench mounting.  
With drip channel and plastic covered feet.

-30%

With	Internal dimensions (L x W x H) mm	PK	Cat. No.	Price EUR	Now EUR
60 bars and 5 arches	420 x 160 x 610	1	9.003 305	<del>84,40</del>	<b>59,08</b>
24 bars and 20 arches	420 x 160 x 610	1	9.003 320	<del>103,00</del>	<b>72,10</b>

## Wipes Multiclean®, 3-ply



Handy cleaning cloths, resistant and with high wet strength they are ideal for light and coarse dirt work.  
2 rolls with 500 tears.

-30%

Width mm	Length mm	Weight g / m <sup>2</sup>	PK	Cat. No.	Price EUR	Now EUR
220	380	60	2	7.618 013	<del>53,53</del>	<b>37,52</b>
360	380	54	2	7.618 212	<del>71,44</del>	<b>50,06</b>

## Roll holders



-23%

With waste bag holder for rolls up to 42 cm width.

Description	PK	Cat. No.	Price EUR	Now EUR
Floor stand	1	6.266 990	<del>76,30</del>	<b>58,89</b>
Wall bracket*	1	6.266 991	<del>61,50</del>	<b>43,05</b>

\* Material for wall mounting included in delivery

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



Laboratory and hygienic tissues in dispenser box

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

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

-30%

Description	PK	Cat. No.	Price EUR	Now EUR
Carton of 30 boxes with 150 wipes	30	9.413 220	<del>47,80</del>	<b>33,46</b>
Wall Mount for Laboratory and hygienic tissues	1	9.405 371	<del>15,40</del>	<b>10,78</b>



## Overgoggles uvex super f OTG CR 9169



uvex



- Autoclavable
- Anti-fog Effect
- Allergy and Pollutant Free



- Professional protection of products and humans
- First autoclavable protective overgoggles with anti-fog effect
- Sterile eye protection in every situation
- Autoclavable at least 10 times, 121 °C, 20 minutes
- Innovative design for maximum functionality and wearer comfort
- Overgoggles with unrestricted lateral vision
- Also suitable for use over prescription spectacles
- Non-allergenic material which is free of harmful substances
- Ultra-modern lens technology
- Extremely flexible soft ear pieces
- EN 166
- UV 400
- Weight 37 g

-30%

Colour	Lens	Coating	PK	Cat. No.	Price	Now
white / light blue	clear, UV 400, 2C-1,2	uvex supravision clean	1	6.268 419	EUR <del>37,10</del>	EUR <b>25,97</b>

## Cleanroom Wipes ASPURE, polyester

AS ONE



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 fibers prevents the generation of lint.

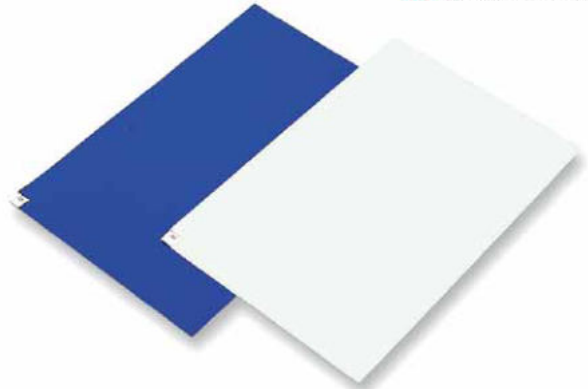
- Knitted, made of 100 % polyester
- Lasercut
- Cleaned with ultrapure water
- Double packed

-30%

Dimensions	Cleanroom Class	Package contents	PK	Cat. No.	Price	Now
mm					EUR	EUR
229 x 229	ISO 5	1 x 150 pieces	150	4.659 070	<del>31,60</del>	<b>22,12</b>

## Adhesive Mats ASPURE, MDPE

AS ONE



Removes dust and dirt from shoe soles, in medium adhesive strength at a thickness of 35 µm per layer.

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

1 carton with 10 mats, 30 layers.

-30%

Colour	Dimensions (D x W) mm	Thickness µm	PK	Cat. No.	Price	Now
					EUR	EUR
blue	450 x 900	35	10	4.659 087	<del>122,90</del>	<b>93,03</b>
blue	600 x 900	35	10	4.659 088	<del>148,60</del>	<b>104,02</b>
blue	600 x 1200	35	10	4.659 089	<del>155,10</del>	<b>121,83</b>
white	450 x 900	35	10	4.659 092	<del>122,90</del>	<b>93,03</b>
white	600 x 900	35	10	4.659 090	<del>148,60</del>	<b>104,02</b>
white	600 x 1200	35	10	4.659 091	<del>155,10</del>	<b>121,83</b>

## Cleanroom-Swabs, PP

AS ONE



Cleanroom class: ISO 5. Cleanroom Swabs with polypropylene shaft and rounded head made of almost particle-free polyurethane or polyester. Packed dustfree in a cleanroom.

-30%

Length	Head size	Material Head	Package	PK	Cat. No.	Price	Now
mm	mm					EUR	EUR
125	12.7 x 25	PU-foam	double packed	100	4.659 074	<del>25,10</del>	<b>17,57</b>
125	12.7 x 25	Polyester	double packed	100	4.659 075	<del>20,90</del>	<b>14,63</b>
162	6.8 x 16.8	PU-foam	double packed	100	4.659 076	<del>15,10</del>	<b>10,57</b>
162	6.8 x 16.8	Polyester	double packed	100	4.659 077	<del>15,10</del>	<b>10,57</b>
70	4.0 x 12.0	Polyester	1 x 100 pcs.	100	4.659 078	<del>8,90</del>	<b>6,23</b>
70	3.5 x 11.0	PU-foam	1 x 100 pcs.	100	4.659 079	<del>8,90</del>	<b>6,16</b>
70	3.5 x 11.0	Polyester	1 x 100 pcs.	100	4.678 156	<del>11,10</del>	<b>7,77</b>

## Tabletop autoclaves LabStar 25



- Fits on every Laboratory Bench
- Safety Lock at over 80 °C



Small laboratory table-top autoclave with round chamber for sterilization tasks of various kinds. A hinged lid with electromotive locking mechanism in combination with the robust lip seal ensures easy and safe closing of the sterilization chamber. A temperature lock in the liquid program prevents opening at temperatures higher than 80 °C and therefore unwanted boiling delay. For an exact control the autoclave has an electronic absolute pressure sensor and a flexible temperature sensor PT100 Kl. A.

- Loading capacity: 10 media bottles or 6 Erlenmeyer flasks (500 ml)
- Safe and simple locking device
- Completely made of stainless steel

**For operation the basic unit plus one of the equipment versions is required.**

### Equipment versions

**Basic Lab:** With heating elements. For the sterilization of simple materials or liquids without dry removal.

**Dry Lab:** With heating elements, membrane-vacuum pump. For the sterilization of non-infectious waste bags and materials which require intensive subsequent drying.

**Quick Lab:** With heating elements, water-cooling system, internal heat exchanger, membrane-vacuum pump. For the sterilization of non-infectious waste bags, large quantities of liquids and materials which require intensive subsequent drying.

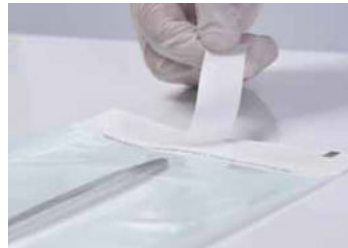
### Specifications

Chamber volume:	25 l
Permissible operating pressure:	3.8 bar absolute
Permissible operating temperature:	140 °C
Heat output:	2.5 kW
Chamber dimensions (Ø x D):	300 x 360 mm
Outer dimensions (W x D x H):	450 x 640 x 525 mm
Weight basic unit:	45 kg
Power supply:	240 V, 50 Hz, 16 A

-2%

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Basic unit	1	4.672 349	<del>3.060,00</del>	<b>3.000,51</b>
Equipment version Basic Lab	1	4.672 350	<del>3.260,00</del>	<b>3.196,63</b>
Equipment version Dry Lab	1	4.672 351	<del>4.540,00</del>	<b>4.451,74</b>
Equipment version Quick Lab	1	4.672 353	<del>5.080,00</del>	<b>4.981,24</b>

## Self-Seal Sterilization Pouches



Self-seal sterilization pouches are pre-folded and assure accurate and fast closing without the requirement of a heat sealing device.

- Triple band seal for higher package integrity

-30%

Dimensions	PK	Cat. No.	Price	Now
mm			EUR	EUR
75 x 200	200	6.272 280	<del>9,60</del>	<b>6,72</b>
90 x 230	200	6.272 281	<del>12,00</del>	<b>8,40</b>
90 x 270	200	6.272 282	<del>13,60</del>	<b>9,52</b>
130 x 290	200	6.272 283	<del>22,30</del>	<b>15,61</b>
190 x 340	200	6.272 284	<del>34,70</del>	<b>24,29</b>
300 x 430	200	6.272 285	<del>66,90</del>	<b>46,83</b>

## Sterilisation rolls



Heat sealable sterilisation rolls with and without side gusset.

-30%

Description	Width	Length	PK	Cat. No.	Price	Now
	mm	m			EUR	EUR
flat	50	200	1	6.272 250	<del>15,30</del>	<b>10,71</b>
flat	75	200	1	6.272 251	<del>23,00</del>	<b>16,10</b>
flat	100	200	1	6.272 252	<del>29,30</del>	<b>20,51</b>
flat	150	200	1	6.272 253	<del>43,90</del>	<b>30,73</b>
flat	200	200	1	6.272 254	<del>58,50</del>	<b>40,95</b>
flat	250	200	1	6.272 255	<del>73,10</del>	<b>51,17</b>
flat	300	200	1	6.272 256	<del>87,70</del>	<b>61,39</b>
flat	350	200	1	6.272 257	<del>102,30</del>	<b>71,61</b>
flat	400	200	1	6.272 258	<del>106,30</del>	<b>74,41</b>
flat	500	200	1	6.272 259	<del>138,00</del>	<b>97,23</b>
gusseted	75	100	1	6.272 260	<del>23,00</del>	<b>16,10</b>
gusseted	100	100	1	6.272 261	<del>26,90</del>	<b>18,83</b>
gusseted	150	100	1	6.272 262	<del>40,30</del>	<b>28,21</b>
gusseted	200	100	1	6.272 263	<del>53,80</del>	<b>37,66</b>
gusseted	250	100	1	6.272 264	<del>67,20</del>	<b>47,04</b>
gusseted	300	100	1	6.272 265	<del>80,70</del>	<b>56,49</b>
gusseted	350	100	1	6.272 266	<del>94,10</del>	<b>65,87</b>
gusseted	400	100	1	6.272 267	<del>111,10</del>	<b>77,77</b>

## Indicator tape for steam sterilisation



Crepe paper, adhesive. With indicator. Colour changes according to DIN EN ISO 11140-1. Rolls of 50 m.

-30%

colour change	Width	PK	Cat. No.	Price	Now
	mm			EUR	EUR
green / black	19	1	9.140 784	<del>12,60</del>	<b>8,82</b>
white / black	25	1	9.140 789	<del>10,80</del>	<b>7,56</b>

## Vacuum measuring instrument VACUU-VIEW



VACUU-VIEW

VACUU-VIEW extended

The rough vacuum gauge VACUU-VIEW covers the measuring range from atmospheric pressure down to 0.1 mbar very precisely. The combined rough and fine vacuum gauge VACUU-VIEW extended works in the enhanced range from atmosphere down to  $10^{-3}$  mbar. The illuminated displays of both vacuum gauges enable comfortable reading.

- Compact design with integrated sensors for useful setup in laboratory and process
- Chemically resistant, heavy duty vacuum sensors, highly reliable at harsh laboratory conditions even in case of very aggressive chemicals
- High repeatability and long-term accuracy under all typical conditions reliable and repeatable results
- Display with menu driven handling, easy to use e.g. for unit settings
- Compatible to gauge DCP 3000 and controller CVC 3000 or VACUU-SELECT
- The product is delivered ready for use

### VACUU-VIEW

Chemically resistant ceramic diaphragm sensor for measurement in the rough vacuum range. VACUU-VIEW provides gas-independent pressure indication with precise capacitive readout. Highest precision and chemical resistance in the range from atmosphere down to 0.1 mbar, a perfect gauge for all rough vacuum applications.

### VACUU-VIEW extended

The heavy duty combination of ceramic diaphragm sensor and ceramic jacketed Pirani sensor ensures reliable readings in the wide range from atmosphere down to  $10^{-3}$  mbar. Precision and chemical resistance in an exceptionally wide range, one gauge covers all applications in the fine and rough vacuum range

### Specifications

Chamber volume:	25 l
Permissible operating pressure:	3.8 bar absolute
Permissible operating temperature:	140 °C
Heat output:	2.5 kW
Chamber dimensions (Ø x D):	300 x 360 mm
Outer dimensions (W x D x H):	450 x 640 x 525 mm
Weight basic unit:	45 kg
Power supply:	240 V, 50 Hz, 16 A

Type	Plug type	PK	Cat. No.	Price
				EUR
VACUU-VIEW	EU, UK, CH	1	6.268 865	765,00
VACUU-VIEW extended	EU, UK, CH	1	6.268 864	872,10

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

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



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

### Specifications

Ultimate vacuum (abs.):	<130 mbar
Operating pressure:	2.5 bar
Connectors for tube:	ID 6 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	PPS
Diaphragm:	PTFE coated
Valves:	FKM
Dimensions (W x D x H):	75 x 156 x 119 mm

-18%

Type	Flow rate L / min.	Ultimate vacuum mbar (abs).	PK	Cat. No.	Price EUR	Now EUR
N96	7	130	1	4.672 374	395,00	322,32

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

The compact pumps feature a control knob for manual adjustments of the flow rate, making them well suited to a wide variety of applications, e.g. rotary evaporation, distillation, gel drying, degassing as well as the use with vacuum ovens and vacuum concentrators. Due to the manual rotational speed control, the pumps are quiet, very energy efficient, and can be optimally adjusted in accordance with the application.



N820G

- Easy-to-clean surface
- Adjustable in flow rate due to manual rotational speed control
- Combination of PTFE pump head and PTFE-coated diaphragm makes the pump ideal for extremely aggressive/corrosive gases and vapors
- High level of compatibility with vapor and condensation
- Integrated gas ballast valve
- 3-color status display: In operation/Stand-by/Error
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- 100 % oil-free transfer to ensure uncontaminated transfer, evacuation and compression
- Optional: Easily expandable with separators and/or condensers

### Specifications

Ultimate vacuum (abs.):	6 mbar
Operating pressure:	0.1 bar
Connectors for tube:	ID9/10 mm
Permissible ambient temperature:	5 ... 40 °C
Pump head:	TFM™ PTFE
Diaphragm:	PTFE-beschichtet
Valves:	FFPM
Dimensions N820G (W x D x H):	163 x 259 x 220 mm
Dimensions N840G (W x D x H):	177 x 289 x 240 mm

-18%

Type	Flow rate L / min.	Ultimate vacuum mbar (abs).	PK	Cat. No.	Price EUR	Now EUR
N820G	20	6	1	4.672 375	1.680,00	1.370,88
N840G	34	6	1	4.672 376	1.850,00	1.509,60

# Mixing and Stirring

## Platform shaker Mini-100 Orbital-Genie®

Benchtop orbital shaker with non-slip, rubber-coated platform and spill-proof edges for gentle shaking.



- Variable shaking speed up to 100 rpm
- Also suitable for use in cold rooms and incubators (not for CO<sub>2</sub> incubators)
- Further platform optionally available

**Scope of delivery:**  
Shaker incl. platform



### Specifications

Type of movement:	orbital
Orbit:	19 mm
Speed range:	20 ... 100 rpm
Max. Load:	3 kg
Working temperature:	0 ... 38 °C
Platform dimensions (W x D):	290 x 290 mm
Overall dimensions (W x D x H):	350 x 350 x 85 mm
Net weight:	3.5 kg

**-18%**

Type	Plug type	PK	Cat. No.	Price	Now
Mini-100 Orbital-Genie	EU	1	4.667 502	<del>948,50</del>	<b>773,91</b>
Mini-100 Orbital-Genie	UK	1	4.667 503	<del>948,50</del>	<b>773,91</b>
Mini-100 Orbital-Genie	CH	1	4.667 504	<del>948,50</del>	<b>773,91</b>

## Platform for Mini-100 Orbital-Genie®



Non-slip tray that extends the capacity of Mini-100 Orbital-Genie® shakers. 2 platforms can be stacked.

**-5%**

Type	Height	PK	Cat. No.	Price	Now
	mm			EUR	EUR
Platform for Mini-100 Orbital-Genie®	114	1	4.667 548	<del>150,70</del>	<b>143,38</b>

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



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

**-30%**

Diam.	Length	PK	Cat. No.	Price	Now
mm	mm			EUR	EUR
3	12	10	9.198 766	<del>13,40</del>	<b>9,38</b>
6	15	10	9.198 919	<del>14,70</del>	<b>10,29</b>
6	20	10	9.198 920	<del>17,70</del>	<b>12,39</b>
6	25	10	9.198 925	<del>18,40</del>	<b>12,88</b>
8	25	10	9.198 767	<del>18,50</del>	<b>12,95</b>
6	30	10	9.198 930	<del>20,40</del>	<b>14,28</b>
6	35	10	9.198 935	<del>22,50</del>	<b>15,75</b>
8	40	10	9.198 940	<del>23,40</del>	<b>16,38</b>
8	45	10	9.198 945	<del>24,90</del>	<b>17,43</b>
8	50	10	9.198 950	<del>25,80</del>	<b>18,06</b>
9	60	10	9.198 960	<del>28,10</del>	<b>19,67</b>
9	70	10	9.198 970	<del>35,30</del>	<b>24,71</b>
9	80	10	9.198 980	<del>40,10</del>	<b>28,07</b>

## Magnetic stirrer IKA Plate (RCT digital)



With glass surface. The control can be optimized by regular firmware updates. The integrated timer and counter function supports the control of kinetics and sensitive reactions.

- Alteration of the stirring direction possible
- Heating plate made of aluminium alloy for optimum heat transmission
- Clearly arranged LCD display
- Housing made of glass for optimum cleaning and chemical resistance
- Temperature control directly in the medium with PT 1000 temperature sensor
- Adjustable safety circuit up to 360 °C
- IKA SmartTemp® function prevents users from burn injuries
- Timer
- USB-/RS232 interface
- 10 years warranty

**Scope of supply:** Magnetic stirrer incl. temperature sensor PT1000

### Specifications

Max. stirring quantity (H <sub>2</sub> O):	20 l
Motor rating input/output:	50 W/9 W
Speed range:	50 to 1500 rpm
Max. stirring bar length:	80 mm
Heating power:	600 W
Heating rate (1 l H <sub>2</sub> O):	7 K/min
Temperature range:	ambient +10 to 310 °C
Heat control accuracy at 100 °C:	±5 K
Safety circuit:	50 to 360 °C
Connection for ext. temp. sensor:	PT1000, ETS-D5, ETS-D6
Control accuracy with sensor PT1000, ETS-D5/ETS-D6:	±0.5 K/±0.2 K
Set-up plate Material:	Aluminium alloy
Set-up plate Dimensions:	diam. 135 mm
IP class acc. to DIN EN 60529:	IP 42
Overall dimensions (W x D x H):	160 x 270 x 85 mm
Weight:	2.4 kg
Power supply:	220-230/115/100 V, 50/60 Hz

**-4%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
IKA Plate (RCT digital)	1	6.286 692	<del>766,70</del>	<b>736,03</b>

## LLG-Magnetic Stirring Bar Retrievers, PTFE



PTFE-encapsulated stirring bar retriever with strong permanent magnet (Alnico 5), universal chemical resistance. Lower end diameter 10 mm.

**-30%**

Diam.	Length	PK	Cat. No.	Price	Now
mm	mm			EUR	EUR
8	150	1	9.197 717	<del>13,00</del>	<b>9,10</b>
8	250	1	9.197 725	<del>16,00</del>	<b>11,20</b>
8	300	1	4.008 501	<del>18,30</del>	<b>12,81</b>
8	350	1	9.197 735	<del>18,40</del>	<b>12,88</b>



## pH meter LAB 845



**Complete Set**

**SI Analytics**



Due to the intuitive operation and robust aluminum housing the pH-Meter LAB 845 is perfect for training and routine purposes.

- Made in Germany
- USB Interface
- Data logger (storage of up to 4000 entries: Date, time, main measured value, secondary measured value, measured temperature) with adjustable interval
- Numerical password protection
- Selectable user language (German, English, French and Spanish)
- Configurable turn-off time
- Sturdy aluminium housing
- Graphic LCD display, backlit

0-14 pH, BL25pH and BL29pH with gel electrolyte, BL19pH with liquid electrolyte KCl 3 mol/l.

BlueLine BL19pH: refillable, with PT1000 temperature sensor  
BlueLine BL25pH: non-refillable, without temperature sensor  
BlueLine BL29pH: non-refillable, with PT1000 temperature sensor

**Scope of supply:** pH meter, stand, mains adapter, electrode as indicated, 6 DIN buffers (2 x pH 4.01, 2 x pH 6.87, 2 x pH 9.18)

Specifications	Measuring range // Resolution // Accuracy
pH:	0 - 14 // 0.01 // $\pm 0.01$ ( $\pm 2$ at calibration point)
mV:	-1999 ... 1999 mV // 1 mV // $\pm 0.3$ mV
ISE:	0 ... 30000 ppm
Temperature:	-10 ... 100 °C // 0.1 °C // $\pm 0.1$ °C
Temperature compensation:	automatic with PT1000 or fix temperature

**-5%**

Description	PK	Cat. No.	Price	Now
			EUR	EUR
Lab 845 set with BlueLine electrode BL19pH	1	6.281 380	<del>546,00</del>	<b>519,79</b>
Lab 845 set with BlueLine electrode BL25pH	1	6.281 620	<del>483,00</del>	<b>459,82</b>
Lab 845 set with BlueLine electrode BL29pH	1	6.281 621	<del>515,00</del>	<b>490,28</b>

## LLG-pH Meter 5



**Complete Set**



The LLG-pH meter 5 is a very easy to use pH/mV/°C handheld meter. The pH value and temperature can be stored directly on the SD card (Excel file) or transferred directly from the pH meter to a PC via the RS-232 interface.

- Gel filled pH electrode with external temperature sensor with 1 m cable
- BNC connector
- Automatic temperature compensation (ATC)
- Large, easy-to-read LCD display
- 3 point calibration
- Suitable for all standard SD cards up to 16 GB

Please order batteries separately (6 x 1.5 V AA)  
Optional: power cable, PC connection cable, PC software

**Scope of supply:** pH meter, pH electrode with temperature sensor, buffers pH 4 and pH 7, 4 GB SD-Memory card, transport case

### Specifications

Measuring range pH:	0 ... 14
pH resolution:	0.01
pH accuracy:	$\pm 0.02 + 2d$
Ambient conditions:	0 ... 50 °C, max. 85 % r.H.
Temperature range electrode:	0 ... 60 °C
Dimensions (W x D x H):	68 x 177 x 45 mm
Weight:	490 g
Power supply:	6 x 1.5 V AA batteries/ 9 V mains adapter (optional)
IP code:	IP 51
Warranty:	3 years (1 year on the electrode)

**-30%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
LLG-pH Meter 5	1	6.263 691	<del>229,00</del>	<b>167,30</b>

## LLG-pH-Buffer solutions with colour coding in twin-neck dispensing bottles

The ready-to-use buffer solutions offer excellent quality, precision and advantages in use. The calibration vessel, integrated into the twin-neck dispensing bottles, allows the particularly economical dispensing of solution and prevents contamination.



- Accuracy  $\pm 0.01$ , tested and certified at 25 °C
- Temperature dependence data table printed on the label
- Traceable to NIST
- Shelf-life: 24 months (pH 7 and 10) or 36 months (pH 4) from date of production
- Colour-coded



**-30%**

pH-value at 25 °C	Colour	Capacity ml	PK	Cat. No.	Price	Now
					EUR	EUR
4.00	Red	250	1	9.040 868	<del>10,00</del>	<b>7,00</b>
7.00	Yellow	250	1	9.040 869	<del>10,00</del>	<b>7,00</b>
10.00	Blue	250	1	9.040 871	<del>10,00</del>	<b>7,00</b>

## Data Logger EBI 20-T1/EBI 20-TE1

**-ebro-**  
Measurements for Life



EBI 20-T1



EBI 20-TE1



## For Transport and Storage Monitoring

### Applications:

- Transport
- Storage monitoring
- Refrigeration areas and cold rooms

### Features:

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

### Scope of supply:

**EBI 20-T1:** Temperature Logger

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

**EBI 20-TE1:** Temperature Logger with external probe

**EBI 20-TE1-Set:** Temperature Logger with external sensor, evaluation software, Interface

### Specifications

Measuring range

-30 to +70 °C

temperature:

Accuracy temperature:

±0.5 °C (-20 to +40 °C); ±0.8 °C for remaining measuring range

Resolution temperature:

0.1 °C

Memory:

40000 samples

Measuring period:

1 minute to 24 hours

Measuring mode:

immediate loop measurement, measurement from starting point, start immediately until memory full, start/stop measuring, start when button pressed

Power supply:

3 V lithium (CR 2450), can be replaced by user

IP code:

IP 67

Housing:

ABS

Dimensions (L x W x H):

69 x 48 x 22 mm

**-12%**

Type	PK	Cat. No.	Price	Now
			EUR	EUR
EBI 20-T1	1	9.908 069	<del>60,00</del>	<b>53,04</b>
EBI 20-T1-Set	1	9.908 073	<del>151,00</del>	<b>133,48</b>
EBI 20-TE1	1	6.228 382	<del>113,00</del>	<b>99,89</b>
EBI 20-TE1-Set	1	6.240 382	<del>206,00</del>	<b>182,10</b>

## LLG-General purpose thermometers economy

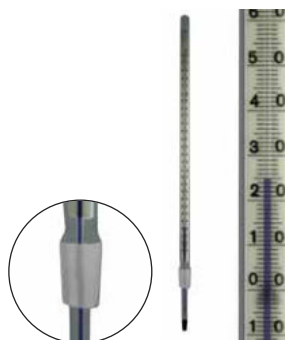


Solid stem, with loop, capillary yellow enameled, graduation resistant against acids and alkalis. Red filling or environmentally friendly blue filling. Length: 300 mm. Diameter: 6 mm.

**-30%**

Measuring range	Graduations	Immersion depth	Charge	PK	Cat. No.	Price	Now
°C	°C		colour			EUR	EUR
-10 ... 50	1	Total	Red	1	9.237 010	<del>8,10</del>	<b>5,67</b>
-10 ... 100	1	Total	Red	1	9.237 011	<del>8,90</del>	<b>6,23</b>
-10 ... 150	1	Total	Red	1	9.237 012	<del>9,70</del>	<b>6,79</b>
-10 ... 200	1	Total	Red	1	9.237 013	<del>9,70</del>	<b>6,79</b>
-10 ... 250	1	Total	Red	1	9.237 014	<del>15,40</del>	<b>10,78</b>
-10 ... 110	1	76 mm	Blue	1	9.237 015	<del>9,40</del>	<b>6,58</b>
-10 ... 110	0.5	76 mm	Blue	1	9.237 016	<del>10,20</del>	<b>7,14</b>
-10 ... 150	1	76 mm	Blue	1	9.237 017	<del>10,20</del>	<b>7,14</b>
-10 ... 250	1	76 mm	Blue	1	9.237 018	<del>14,30</del>	<b>10,01</b>
-10 ... 360	2	76 mm	Blue	1	9.237 019	<del>15,60</del>	<b>10,92</b>

## Thermometers, ground glass joint



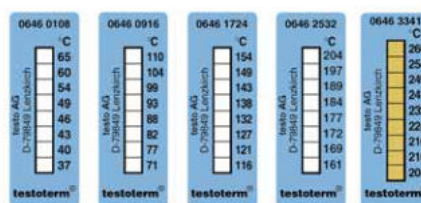
With NS 14.5/23 cone. Enclosed-scale type, Translucent glass scale. Upper section approx. 11 mm diameter, lower section 7.5 mm diameter. Richter-top finish seal without button.

**-30%**

Measuring range	Graduations	Corpus	Immersion depth	Charge	PK	Cat. No.	Price	Now
°C	°C	mm	mm	colour			EUR	EUR
-10 ... 15	0.5	350	52	Red	1	9.236 022	<del>58,70</del>	<b>41,09</b>
-10 ... 25	1	300	52	Blue	1	9.236 023	<del>64,10</del>	<b>44,87</b>
-10 ... 360	1	350	52	Green	1	9.236 024	<del>75,20</del>	<b>52,64</b>
-10 ... 150	1	250	77	Red	1	9.236 025	<del>51,80</del>	<b>36,26</b>
-10 ... 150	0.5	350	77	Red	1	9.236 026	<del>58,70</del>	<b>41,09</b>
-10 ... 250	1	300	77	Blue	1	9.236 027	<del>64,10</del>	<b>44,87</b>
-10 ... 360	1	350	77	Green	1	9.236 028	<del>75,20</del>	<b>52,64</b>

(Built-in length = Immersion depth + 23 mm for ground joint)

## 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.

**-17%**

Measuring range	PK	Cat. No.	Price	Now
°C			EUR	EUR
37 ... 65	10	9.246 002	<del>25,00</del>	<b>20,85</b>
71 ... 110	10	9.246 003	<del>25,00</del>	<b>20,85</b>
116 ... 154	10	9.246 004	<del>25,00</del>	<b>20,85</b>
161 ... 204	10	9.246 005	<del>25,00</del>	<b>20,85</b>
204 ... 260	10	9.246 006	<del>25,00</del>	<b>22,47</b>

## Laboratory coat AlphaTec® 2000, model 209



Laboratory coat made of microporous polyethylene laminate fleece

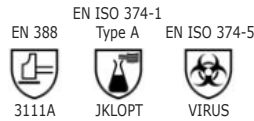
- Protection against spray liquids and fine dust with low hazard
- CATEGORY III (Type PB (6) -B, EN 14126)
- High wearing comfort
- Permeable to water vapour ("breathable")
- Low lint
- Front zip
- 1 breast pocket
- 1 side pocket
- Felled seams

Material: polyethylene laminate fleece  
Colour: white  
Weight: 63 g/m<sup>2</sup>

**-30%**

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S	60	4.661 356	<del>400,80</del>	<b>280,56</b>
M	60	4.661 357	<del>400,80</del>	<b>280,56</b>
L	60	4.661 358	<del>400,80</del>	<b>280,56</b>
XL	60	4.661 359	<del>400,80</del>	<b>280,56</b>

## Chemical Protection Glove Ultranitril 381, Nitrile



Chemical protective glove made of nitrile with glued cotton liner for long term comfort. Anatomic shape. Z-pattern-profile for safe grip of wet things. More dexterity due to the glued cotton knit lining, which offers excellent comfort and thermal insulation. Excellent resistance against oils, greases and many solvents. 1 pair per pack.

Length: 355 mm  
Thickness: 0.85 mm  
Colour: Green  
CE: **Cat. III**

**-30%**

Size	PK	Cat. No.	Price	Now
			EUR	EUR
S (7)	1	9.005 206	<del>15,00</del>	<b>10,50</b>
M (8)	1	9.005 207	<del>15,00</del>	<b>10,50</b>
L (9)	1	9.005 208	<del>15,00</del>	<b>10,50</b>
XL (10)	1	9.005 209	<del>15,00</del>	<b>10,50</b>
XXL (11)	1	9.005 199	<del>15,00</del>	<b>10,50</b>

## Disposable face mask activaMask®



- Bacterial Filtration efficiency > 98 %
- Integrated Nose Clip
- Three Layers of Protection, Latex free
- Type II R



Disposable face mask with earloops.

- Three layers of protection, polypropylene
- Integrated nose clip
- Bacterial filtration efficiency >98 %
- Latex free, glass fibre free
- EN 14683 Type II R
- Made in Germany

**-30%**

Colour	Width	Length	PK	Cat. No.	Price	Now
	mm	mm			EUR	EUR
Blue/white	95	175	50	6.316 787	<del>24,90</del>	<b>17,43</b>

# LABORTOPS

## Air purifier ap360

grant



- **Protects Against Infections**
- **Ozone Free**
- **Low Noise Level**

The Air purifier ap360 protects from airborne infection by removing aerosols and also cleans the air from dust, pollen and many other allergens. Suitable for personal protection in laboratories, medical settings and production rooms.

- Efficient 360° air recycling of a 90 m<sup>3</sup> room four times in an hour, eliminating 99.95 % of known viruses (including coronaviruses)
- With a medical grade, high capacity HEPA13 filter (acc. to EN 14644)
- 2 powerful UVC lamps for destroying bacteria and viruses by damaging their RNA and DNA, which avoids replication
- Ozone free
- Low noise level
- With lockable castors for safe and easy handling



### Specifications

Filters:	Pre-filter H13 (EN 1822)
UV radiation source:	2 UV lamps, 55 W bactericidal, TU PL-L 55W UV-C
UV irradiance:	156 uW/cm <sup>2</sup> /s at 1 m (Philips)
Radiation type:	UV ( $\lambda = 253.7$ nm)
UV lamp service life	9000 h
Air flow:	360 m <sup>3</sup> /h
D90 dose:	280 J/m <sup>2</sup>
Timer:	1 min ... 24 h, continuous
Noise level:	max. 66 db
Dimensions (W x D x H):	350 x 350 x 1050 mm
Weight:	13.4 kg
Power supply:	120/230 V, 50/60 Hz

Type	PK	Cat. No.	Price
ap360	1	4.679 869	EUR 3.000,00