



# Labware TOP Offers



**-30%**

**A**uto  
clavable

### Single-channel microlitre pipette ROTILABO®

Carl ROTH. Autoclavable: yes.

Robust quality pipettes with variable volume for routine work and demanding applications.

- Ergonomic finger support for comfortable handling and single-hand operation
- Separate tip eject button
- Central, large pipettor button for even plunger movement
- Separate volume adjustment, for left- and right-handed users
- Easy-to-read display
- Integrated calibration function for easy adjustment without tools
- Corrosion-resistant plunger and ejector
- Slim shaft
- Fully autoclavable at 121 °C (2 bar) according to DIN EN 285
- A filter for protection of the pipettes is optional with volumes of 5 ml and higher. Please order separately

Volume (µl)	Graduation (µl)	Tip type (µl)	Art. No.	Pack Qty.	€	€
0.5 to 10	0,01	20	<b>TA21.1</b>	1 unit(s)	296,70	<b>207,65</b>
2 to 20	0,02	200	<b>TA22.1</b>	1 unit(s)	266,60	<b>186,60</b>
10 to 100	0,1	200/300	<b>TA23.1</b>	1 unit(s)	266,60	<b>186,60</b>
20 to 200	0,2	200/300	<b>TA24.1</b>	1 unit(s)	266,60	<b>186,60</b>
100 to 1000	1	1000	<b>TA25.1</b>	1 unit(s)	266,60	<b>186,60</b>
500 to 5000	5	5000	<b>TA26.1</b>	1 unit(s)	296,70	<b>207,65</b>
1000 to 10000	10	10000	<b>TA27.1</b>	1 unit(s)	296,70	<b>207,65</b>

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Contact: www.carlroth.com/com/en/Auslandsservice · www.carlroth.com/com/en/Auslandsvertretungen  
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**-20%**

**NEW / +**

**CO<sub>2</sub>-resistant orbital shaker KM CO<sub>2</sub>**

Edmund Bühler.

**Features:**

- Circular movement
- High-grade materials and stainless steel components especially for CO<sub>2</sub> concentrations of up to 20% and humidity of up to 95% RH
- External control unit (corded, length 2.0 m, Ø 12 mm) with LED display for speed (resolution 5 rpm) and operating time (resolution 1 min). Control unit can be fastened to magnetic surfaces
- Low heat emission

**Technical specifications:**

Art. No.	ENE2.1	27K7.1
Type	KM CO <sub>2</sub>	KM CO <sub>2</sub> -FL
Movement type	circular	
Speed range	30 to 220 rpm	
Shaking amplitude (stroke)	20 mm	
Timer	0 to 99 h, 59 min or continuous operation	
Shaking surface area	200 x 295 mm	
W x D x H	230 x 340 x 145 mm	
Loading capacity	2 kg	
Permissible ambient conditions	4 to 45 °C at 95% RH	
	0 to 20% (CO <sub>2</sub> concentration)	
Weight	7,6 kg	
Mains connection	230 V, 50/60 Hz	

**With standard cable**

**Delivery incl.** external control unit and basic attachment with rubber mat.

Type	Art. No.	Pack Qty.	€	€
KM CO <sub>2</sub>	ENE2.1	1 unit(s)	2.766,00	<b>2.212,35</b>

**With ribbon cable**

The ribbon cable eliminates the need for a cable conduit in the incubator.

**Delivery incl.** external control unit with ribbon cable and basic attachment with rubber mat.

Type	Art. No.	Pack Qty.	€	€
KM CO <sub>2</sub> -FL	27K7.1	1 unit(s)	2.766,00	<b>2.212,35</b>

**Accessories**

**for cordless KM 2, KM 2 and KM CO<sub>2</sub> shakers**

Edmund Bühler.

**KM tension roller**

For securely fastening upright vessels to the KM 2 cordless and KM 2. Loading options, e.g. 2 x 1000 ml Erlenmeyer flasks or 9 x 100 ml Erlenmeyer flasks. The KM tension roller is fixed to the edge of the shaker swivel plate with star-shaped grip screws.

Designation	Art. No.	Pack Qty.	€	€
KM tension roller	T519.1	1 unit(s)	54,30	<b>43,40</b>



**-25%**

**Auto-clavable**

**Erlenmeyer flasks ROTILABO®**

ROTH SELECTION. Material: borosilicate glass 3.3. Autoclavable: yes. Graduated.

**Wide neck**

According to DIN ISO 24450 (art. No. X734.1, X739.1 and X742.2 as a supplement to DIN).

Vol. (ml)	Ø Outer flask (mm)	Ø Outer neck (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
25	42	32	70	X734.1	10 unit(s)	160,20	<b>120,10</b>
50	51	34	85	X735.1	10 unit(s)	173,10	<b>129,80</b>
100	64	34	105	X736.1	10 unit(s)	98,30	<b>28,70</b>
200	79	50	131	X737.1	10 unit(s)	41,45	<b>31,05</b>
250	85	50	135	X738.1	10 unit(s)	41,45	<b>31,05</b>
300	87	50	156	X739.1	10 unit(s)	54,85	<b>41,10</b>
500	105	50	170	X740.1	10 unit(s)	57,20	<b>42,85</b>
1,000	131	50	215	X741.1	10 unit(s)	74,35	<b>55,70</b>
2,000	153	72	280	X742.2	6 unit(s)	81,40	<b>61,00</b>

**Narrow neck**

Vol. (ml)	Ø Outer flask (mm)	Ø Outer neck (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
25	42	22	70	X745.1	10 unit(s)	156,15	<b>117,05</b>
50	51	22	85	X746.1	10 unit(s)	149,30	<b>111,90</b>
100	64	22	105	X747.1	10 unit(s)	178,45	<b>133,80</b>
200	79	34	131	X748.1	10 unit(s)	43,45	<b>32,55</b>
250	85	34	140	X749.1	10 unit(s)	41,45	<b>31,05</b>
300	87	34	156	X750.1	10 unit(s)	54,85	<b>41,10</b>
500	105	34	175	X751.1	10 unit(s)	60,60	<b>45,40</b>
1,000	131	42	220	X752.1	10 unit(s)	94,55	<b>70,90</b>
2,000	166	50	280	X753.2	6 unit(s)	72,55	<b>54,30</b>
3,000	187	50	310	X754.1	1 unit(s)	54,20	<b>40,60</b>
5,000	220	50	365	X755.1	1 unit(s)	84,25	<b>63,15</b>



**-20%**

**Test tube shaker RS-VA 10**

Phoenix Instrument.

For mixing small sample sizes in test tubes, centrifuge tubes, reaction vials, etc.

- With variable speed control from 0 to 2500 rpm
- Touch or continuous operation
- Robust housing design
- Slip-resistant silicon feet

**Technical specifications:**

Art. No.	PX88.1
Type	RS-VA 10
Movement type	circular vibrating
Speed range	0 to 2500 rpm
Shaking amplitude (stroke)	4 mm
W x D x H	127 x 130 x 160 mm
Weight	3.5 kg
Mains connection	220–230 V, 50 Hz

**Delivery incl.** standard attachment for test tubes and small vessels.

Art. No.	Pack Qty.	€	€
PX88.1	1 unit(s)	187,05	149,40

**NEW / +**

**Test tube shaker Digital Vortexer**

Heathrow Scientific.

- With speed and time adjustment via digital display
- Speed range:
  - intermittent operation 600 to 3600 rpm in 200 increments
  - continuous operation 600 to 2600 rpm in 200 increments
- Timer operation:
  - continuous operation 1 s to 50 h
  - intermittent operation 1 s to 1 min
- Control via touch slide control
- **Versatile and ergonomic use: six additional side recesses on the vortex attachment allow easy mixing at a side angle (in addition to the usual 90° position in the centre)**
- Robust ABS housing design with slip-resistant feet
- Five-year warranty

**Technical specifications:**

Art. No.	27TT.1
Type	Digital Vortexer
Movement type	circular, vibrating
Speed range	600 to 3600 rpm
Shaking amplitude (stroke)	5,8 mm
W x D x H	155 x 201 x 142 mm
Weight	2,4 kg
Mains connection	100–240 V, 50/60 Hz

Art. No.	Pack Qty.	€	€
27TT.1	1 unit(s)	579,45	463,30

**-20%**





**-15%**

### Heating and magnetic stirrer RCT digital

IKA.

- Aluminium hot plate
- Clear display incl. target/actual value display for temperature and speed
- Housing surface made of toughened glass for optimum cleaning and chemical resistance
- **Integrated contact thermometer with full functionality, for direct control of the medium temperature**
- "Sensor in medium" detection
- Adjustable safety circuit (50 to 360 °C)
- **Integrated timer function**
- Adjustable automatic reversal of direction of rotation (10 s to 10 min) and pause time (3 s to 5 min)
- **Direction of rotation of the magnetic motor can be adjusted by turning to the left or right**
- Hot surface warning
- USB/RS 232 interface

#### Technical specifications:

<b>Art. No.</b>	<b>HPA5.1</b>
Type	RCT digital
Number of stirring points	1
Max. stirring capacity (H <sub>2</sub> O)	20 l
Speed range	50 to 1500 rpm
Speed display	LCD
Operating temperature	room temperature to +310 °C
Temperature display	LCD
Setting accuracy	1 °C
Control accuracy without sensor	±5 K
Control accuracy with sensor	±0,5 K
Heating output	600 W
Timer function	99 h, 99 min and 59 s
Footprint	Ø 135 mm
W x D x H, total	160 x 270 x 85 mm
Weight	2,4 kg
Mains connection	220–230 V, 50/60 Hz

**Delivery incl.** Pt 1000.60 stainless steel temperature measuring sensor (Ø 3 mm, L 230 mm).

#### RCT digital

With round footprint made of aluminium. Heat output 600 W.

Type	Art. No.	Pack Qty.	€	€
RCT digital	<b>HPA5.1</b>	1 unit(s)	1.172,00	<b>996,00</b>



**-25%**

### Multi-position magnetic stirrer POLY 15

Thermo.

Nonwearing Cimarec stirrer drive. Powder-coated stainless steel housing. Digital display for accurate speed adjustment. Memory function stores the most recent settings. For up to 15 250 ml beakers or 6 1000 ml Erlenmeyer flasks. 5 years warranty.

#### Technical specifications:

<b>Art. No.</b>	<b>X544.1</b>
Type	POLY 15
Number of stirring points	15
Max. stirring capacity (H <sub>2</sub> O)	0,8 l
Speed range	130 to 990 rpm
Stirring power	10 W
W x D x H, total	240 x 420 x 35 mm
Operating temperature	-10 to +40 °C at 95 % RH
Weight	6 kg

Type	Art. No.	Pack Qty.	€	€
POLY 15	<b>X544.1</b>	1 unit(s)	1.063,00	<b>797,25</b>



### Heating thermoshaker

Thermo.

For heating and mixing in 0.5/1.5 ml reaction vials, 50 ml test tubes or 96-well plates. With circular shaking action. Applications: cultivating bacteria and yeast, enzyme reactions, denaturation of DNA, RNA and proteins, etc.

- VFD display
- PID controller for constant shaking action and precise temperature control
- Programmable with 10 programming steps for up to 7 different programs (program parameters: Nominal temperature, process time per programming step and shaking frequency)
- Two timer function modes (1 min to 99 h, 59 min):
  - process time does not begin to elapse until nominal temperature is reached
  - timer starts immediately after setting the required process time
- Max. recommended shaking frequency:
  - block for 96-well plates: 150 to 1500 rpm
  - block for 0.5 ml vessels: 150 to 1200 rpm
  - block for 1.5 ml vessels: 150 to 1200 rpm
  - block for 50 ml tubes: 150 to 800 rpm

#### Technical specifications:

Art. No.	ATX7.1
Operating temperature	from +5 °C above room temperature to +100 °C
Temperature adjustment range	0 – +100 °C
Accuracy	±0,5 °C
Resolution	0,1 °C
Average heating rate	approx. 5 °C/min from +41 °C
Timer	1 min to 99 h, 59 min / continuous operation
Shaking amplitude (stroke)	2 mm
W x D x H	249 x 325 x 120 mm
Weight	8,3 kg
Mains connection	230 V, 50/60 Hz

Delivery without interchangeable block, please order separately.

Version	Shaking motion	Max. exchange blocks	Art. No.	Pack Qty.	€	€
Heating	round	1	ATX7.1	1 unit(s)	1.534,00	1.073,00

### Accessories interchangeable block for heating thermoshaker

Thermo.

#### For reaction vials

Dimensions: W 98 mm x D 76.5 mm x H 30/40 mm

Suitable for	Art. No.	Pack Qty.	€	€
48 x 0.5 ml reaction vials	ATX8.1	1 unit(s)	192,00	134,40
24 x 1.5/2.0 ml reaction vials	ATX9.1	1 unit(s)	332,00	232,40

#### For 50 ml test tubes (Ø 30 mm)

Dimensions: W 98 mm x D 76.5 mm x H 51 mm

Suitable for	Art. No.	Pack Qty.	€	€
6 x 50 ml test tubes (Ø 30 mm)	ATY1.1	1 unit(s)	332,00	232,40

#### For 96-well plates

Dimensions: W 111 mm x D 76.5 mm x H 15 mm

Suitable for	Art. No.	Pack Qty.	€	€
96-well PCR plate	ATY0.1	1 unit(s)	361,00	266,70





### Shakers Varioshake VS-8 series

Lauda.

**-15%**

**Properties:**

- Max. shaking weight 8 kg
- Operation via timer or continuous operation
- Constant speed, load-independent

**Technical specifications:**

Art. No.	1CX.Y.1	1CY.0.1
Type	VS 8 O	VS 8 B
Movement type	circular	back and forward
Speed range	20 to 500 rpm	20 to 300 rpm
Shaking amplitude (stroke)	10 mm	20 mm
Speed display	digital	digital
Timer	1 min to 99:59 h or continuous operation	1 min to 99:59 h or continuous operation
Shaking surface area	330 x 330 mm	
W x D x H	350 x 355 x 160 mm	350 x 355 x 160 mm
Loading capacity	8 kg	
Permissible ambient conditions	10 to 60 °C at 70% RH	10 to 60 °C at 70% RH
Weight	13 kg	
Mains connection	230 V, 50/60 Hz	

**Delivery incl.** shaking table, but without attachment and accessories (please order separately).

**Digital control**

- Shaking frequency display and setting, digitally via LC display, in increments of 1 rpm
- Display of target and actual values for shaking frequency and time via two LC displays
- Storage of last operating parameters
- Soft start

Type	Art. No.	Pack Qty.	€	€
VS 8 O	1CX.Y.1	1 unit(s)	1.410,00	1.198,00
VS 8 B	1CY.0.1	1 unit(s)	1.470,00	1.249,00



**ES model**

- For simple stirring applications
- Clamping range of chuck 1 to 10 mm
- Push-through stirring tool

Type	Art. No.	Pack Qty.	€	€
ES	ACP3.1	1 unit(s)	578,95	491,25



### Accessories for Varioshake VS-8 series shakers

**-15%**

Lauda.

**Universal attachment**

For secure fastening of various shaking objects between rubber-clad tension rollers. Tension rollers can be fixed at three different heights (25, 45 or 65 mm).

**Delivery incl.** four rubber-clad tension rollers.

Type	Art. No.	Pack Qty.	€	€
Universal attachment	1CY1.1	1 unit(s)	414,00	351,90

**Slip-proof support**

For slow movement e.g. of nutrient solutions in Petri dishes with a shaking speed of up to 50 rpm. L 330 x W 330 mm.

Type	Art. No.	Pack Qty.	€	€
Slip-proof support	1CY2.1	1 unit(s)	71,70	60,90

**Adhesive mat for Varioshake VS-8 series shakers and VS 60 OI**

Highly adhesive special mat for easy fastening of a huge variety of vessels. Shaking speed up to approx. 250 rpm (depending on shape and weight of the vessel and shaking amplitude level). Can be cut to size, L 200 x W 200 mm.

Type	Art. No.	Pack Qty.	€	€
Adhesive mat	1CY3.1	1 unit(s)	96,10	81,65

### Laboratory stirrer

Velp.

**-15%**

**Technical specifications:**

Art. No.	ACP3.1
Type	ES
Max. stirring capacity (H <sub>2</sub> O)	15 l
Max. viscosity	1,000 mPas
Max. torque	15 Ncm
Motor power input	45 W
Motor power output	30 W
Speed range	50 to 1300 rpm
Speed display	scale
Ø Extension arm	13 mm
Extension arm length	150 mm
W x D x H	80 x 160 x 200 mm
Weight	1,3 kg
Mains connection	80–260 V, 50/60 Hz

**Delivery without** stirring tool, stand and boss head, please order separately (see stirrer accessories).



**-20%**

**Small magnetic stirrer ROTILABO® M 3**

ROTH SELECTION.

- For stirring capacities up to 3 l
- Continuously adjustable speed range
- ABS housing

**Technical specifications:**

Art. No.	AAN1.1
Type	M 3
Number of stirring points	1
Max. stirring capacity (H <sub>2</sub> O)	3 l
Speed range	to 1100 rpm
Motor power output	0.6 W
Housing material	ABS
Footprint	130 x 150 mm
W x D x H, total	130 x 150 x 50 mm
Operating temperature	5 to +40 °C at 80 % RH
Weight	400 g
Mains connection	100–240 V, 50/60 Hz

Type	Art. No.	Pack Qty.	€	€
M 3	AAN1.1	1 unit(s)	103,85	<b>83,00</b>

**A**uto-clavable

**Beaker ROTILABO®**

ROTH SELECTION. Material: borosilicate glass 3.3. Autoclavable: yes.

Graduated, with spout (art. No. X685.1, X686.1, X687.1, and X700.1

not graduated). Acc. to DIN 12331, ISO 3819

(art. No. ACK7.1 not according to DIN).

**Low form**

Vol. (ml)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
5	22	30	X685.1	10 unit(s)	37,60	<b>28,15</b>
10	26	35	X686.1	10 unit(s)	40,55	<b>30,35</b>
25	34	50	X687.1	10 unit(s)	40,35	<b>30,20</b>
50	42	60	X688.1	10 unit(s)	34,00	<b>25,45</b>
100	50	70	X689.1	10 unit(s)	28,90	<b>21,60</b>
150	60	80	X690.1	10 unit(s)	31,90	<b>23,85</b>
250	70	95	X691.1	10 unit(s)	36,85	<b>27,55</b>
400	80	110	X692.1	10 unit(s)	39,55	<b>29,60</b>
600	90	125	X693.1	10 unit(s)	54,20	<b>40,60</b>
800	100	135	X694.1	10 unit(s)	65,00	<b>48,70</b>
1,000	105	145	X695.1	10 unit(s)	69,35	<b>51,95</b>
2,000	130	185	X696.2	1 unit(s)	13,10	<b>9,75</b>
3,000	150	210	X697.1	1 unit(s)	51,85	<b>38,85</b>
5,000	170	270	X698.1	1 unit(s)	66,15	<b>49,55</b>
10,000	217	350	ACK7.1	1 unit(s)	143,25	<b>107,35</b>



**High form**

Vol. (ml)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
25	30	55	X700.1	10 unit(s)	40,35	<b>30,20</b>
50	38	70	X701.1	10 unit(s)	29,90	<b>22,40</b>
100	48	80	X702.1	10 unit(s)	31,35	<b>23,45</b>
150	54	95	X703.1	10 unit(s)	35,40	<b>26,50</b>
250	60	120	X704.1	10 unit(s)	37,45	<b>28,05</b>
400	70	130	X705.1	10 unit(s)	43,20	<b>32,35</b>
600	80	150	X706.1	10 unit(s)	45,05	<b>33,75</b>
800	90	175	X707.1	10 unit(s)	69,35	<b>51,95</b>
1,000	95	180	X708.1	10 unit(s)	77,25	<b>57,85</b>
2,000	120	240	X709.2	1 unit(s)	13,75	<b>10,25</b>
3,000	135	280	X710.2	1 unit(s)	47,65	<b>35,65</b>



**NEW/+**

### Extraction system VAS series

Phönix Instrument.

Vacuum continuously adjustable. Extraction handle flexibly adjustable at the touch of a button or adjustable in two stages in continuous operation. Hydrophobic filter prevents contamination by aerosols and liquids. Quiet, brushless motor.

#### Accessories for extraction handle:

- One single-channel stainless steel tip each, L 60/L 120 mm, Ø 1.5 mm
- One single-channel stainless steel tip each, L 60/L 120 mm, Ø 2.5 mm
- One adapter each for single-channel stainless steel tip to accommodate 200 µl/1000 µl tips
- 8-channel stainless steel tip, L 60 mm
- Adapter for 8-channel stainless steel tip to accommodate 200 µl-tips

#### Technical specifications:

Art. No.	23TK.1	23TL.1
Type	VAS-ECO	VAS-10
Bottle volume	2,000 ml	4,000 ml
Suction capacity (l/min)	8,0	
End vacuum (abs.)	400 mbar	
Ambient temperature	+4 – +40 °C	
W x D x H	180 x 240 x 340 mm	180 x 240 x 450 mm
Weight	2.8 kg	3 kg
Mains connection	100–240 V, 50/60 Hz	

#### (1) VAS-ECO

Compact extraction system with 2 l PP collecting bottle. Fits in every vent and on every work surface. Lid with hose nozzles.

**Delivery incl.** 2 l PP collecting bottle with hose nozzles, extraction handle, various attachments and adapters, power supply unit.

Type	Art. No.	Pack Qty.	€	€
VAS-ECO	23TK.1	1 unit(s)	698,75	559,00

#### (2) VAS-10

Complete extraction system with 4 l PP collecting bottle. Lid with self-closing quick couplings for tight sealing of the collecting bottle after the hoses are disconnected. Non-contact fill level sensor for electronic monitoring of the fluid level in the collecting bottle.

**Delivery incl.** 4 l PP collecting bottle with quick couplings, extraction handle, various attachments and adapters, power supply unit.

Type	Art. No.	Pack Qty.	€	€
VAS-10	23TL.1	1 unit(s)	1.331,95	1.065,30



### Diaphragm vacuum pump ROTILABO® CR-MV100

ROTH SELECTION.

Chemical-resistant, for conveying and compressing neutral and aggressive gases and vapours in accordance with the resistance of the given materials. Vacuum is continuously variable via manual vacuum controller (needle valve).

#### Application:

suitable for vacuum filtration, vacuum drying and solid phase extraction.

#### Technical specifications:

Art. No.	ECK4.1
Type	CR-MV100
Suction capacity (l/min)	10.0
Suction capacity (m³/h)	1.0
End vacuum (abs.)	100 mbar
Measuring range	1000–1 mbar
Graduation	50 mbar
Overpressure	2,5 bar
Media temperature	+10 – +60 °C
Connection	for hose inner Ø 6 mm
Motor power	48 W
Ambient temperature	+10 – +40 °C
Materials in contact with media	seal: EPDM, hose nozzle: PP, valve: FKM, diaphragm: PTFE-coated, hose/separator: PVC, pump head: PPS
W x D x H	144 x 198 x 244 mm
Weight	2,7 kg
Mains connection	90–260 V, 50/60 Hz

**Delivery incl.** vacuum metering block with pressure gauge and exhaust silencer.

Type	Art. No.	Pack Qty.	€	€
CR-MV100	ECK4.1	1 unit(s)	868,60	651,45





### Diaphragm vacuum pump LABOPORT® speed-controlled

KNF.

Chemically resistant diaphragm pump, compact in design, with small footprint. Can be easily adapted to the respective application by means of integrated, manual speed control via a rotary knob. Very energy efficient and quiet. Surface is very easy to clean.

#### Technical specifications:

Art. No.	1EK1.1	1EK2.1
Type	N 820 G	N 840 G
Suction capacity (l/min)	20.0	34.0
Suction capacity (m³/h)	1.2	2.0
End vacuum (abs.)	6 mbar	
Overpressure	0,1 bar	
Media temperature	+5 – +40 °C	
Connection	for hose inner Ø 8–9,5 mm	
Motor power	66 W	100 W
Ambient temperature	+5 – +40 °C	
IP rating	30	
Materials in contact with media	pump head: TFM™ PTFE, diaphragm: PTFE-coated, valves: FFPM	
W x D x H	163 x 259 x 220 mm	177 x 289 x 240 mm
Weight	8,8 kg	11,3 kg
Mains connection	100–240 V, 50/60 Hz	

#### N 800 G series

Ideal for very aggressive/corrosive gases and vapours.

**Application:** centrifugal concentration, rotary evaporation, distillation, degassing, desiccation, solid phase extraction.

- High steam and condensate resistance through integrated gas ballast valve
- Inner, media-contact area ATEX-compliant according to "(EX) II 2/-G IIB+H2 T3 internal atmosphere only"

Pic.	Type	Art. No.	Pack Qty.	€	€
(1)	N 820 G	1EK1.1	1 unit(s)	<del>2.138,20</del>	1.710,30
(2)	N 840 G	1EK2.1	1 unit(s)	<del>2.354,25</del>	1.883,40



### Rotary vane pump package CRVpro series

WELCH Vacuum.

Complete packages with two-stage rotary vane pumps.

- Low operating temperature due to enhanced cooling geometry
- Coating of the pump body and the oil container as protection against chemical vapours
- Low oil consumption and corrosion inhibition due to low heat development during operation
- Large oil reservoir reduces the concentration of chemicals, thereby increasing the oil change intervals

#### Application:

- Freeze dryer (CRVpro 4/6/8)
- Vacuum centrifuge (CRVpro 6)
- Vacuum ovens (CRVpro 8)
- Schlenk technology (CRVpro 4)
- Glove box (CRVpro 8)

#### Technical specifications:

Art. No.	HKE0.1	HKE1.1	HKE2.1
Type	CRVpro 4	CRVpro 6	CRVpro 8
Suction capacity (l/min)	63.0	85.0	122.0
Suction capacity (m³/h)	3.8	5.1	7.3
End vacuum (abs.)	2 x 10 <sup>-3</sup> mbar		
End vacuum abs. with gas ballast	7 x 10 <sup>-2</sup> mbar		
Media temperature	+10 – +40 °C		
Connection	DN 16 KF small flange		
Oil filling	1,15 l		1,0 l
Motor power	370 W		
Ambient temperature	+10 – +40 °C		
IP rating	54		
Noise level	50 db		
W x D x H	463 x 157 x 230 mm		
Weight	21 kg	22 kg	22,5 kg
Mains connection	115–230 V, 50/60 Hz		

**Delivery incl.** AKD 16 oil mist separator, 2-way ball valve, adapter (DN 16 small flange to DN 10/8 mm hose nozzle), vacuum hose (1.5 m), oil change set incl. 2 x 1 l oil, clamping and centring rings.

Type	Art. No.	Pack Qty.	€	€
CRVpro 4	HKE0.1	1 unit(s)	<del>2.940,15</del>	2.204,80
CRVpro 6	HKE1.1	1 unit(s)	<del>3.241,15</del>	2.430,55
CRVpro 8	HKE2.1	1 unit(s)	<del>3.886,15</del>	2.914,30



### Rotary evaporators

IKA.

Usable in the chemical, pharmaceutical and bio-industry, in the fields of research and development, production and quality assurance, in laboratories and in plant engineering.

- 4 l water heating bath with digital temperature display and handles
- Mechanical end stop for lift
- Manual lift
- Adjustable insertion angle
- Continuous speed adjustment via rotary knob and display scale
- Piston fixture with integrated push-off mechanism for easy changing of evaporating flasks

#### Technical specifications:

Art. No.	223K.1	KAX8.1	HTX5.1
Type	RV 3 pro V-C complete package	RV 3 V	RV 3 V-C
Speed range	20 to 300 rpm		
Temperature range	to 99 °C		
Heating output	1350 W		
Setting accuracy	1 K		
Control deviation	±1 K		
Bath volume	4 l		
Heating bath width	330 mm		
Heating bath length	190 mm		
Heating bath height	325 mm		
Integrated vacuum controller	No		
Hose connectors	for hoses ID 8 mm (water and vacuum hose)		
L x W x H, total	440 x 330 x 530 mm		
Weight	28 kg		
Mains connection	100–240 V, 50/60 Hz		

#### RV 3 series

**Delivery incl.** heating bath and vertical glassware. With PTFE inlet tube and 1000 ml evaporating flask (NS 29/32) and 1000 ml receiving flask (KS 35/20).

Type	Version	Glassware	Art. No.	Pack Qty.	€	€
RV 3 V	vertical cooler	uncoated	KAX8.1	1 unit(s)	2.974,00	2.376,00
RV 3 V-C	vertical cooler	coated	HTX5.1	1 unit(s)	3.167,00	2.533,00

#### RV 3 pro V-C complete package

All components and connections necessary for operation are included.

**Delivery incl.** heating bath and vertical glassware. With PTFE inlet tube, 1000 ml receiving flask (KS 35/20), 1000 ml evaporating flask (NS 29/32), VACSTAR digital vacuum pump, VC 10 lite vacuum controller, RC 2 lite recirculating chiller, hose set (5 m water hose, 3 m vacuum hose) and 4 hose clamps.

Type	Version	Glassware	Art. No.	Pack Qty.	€	€
RV 3 pro V-C complete package	vertical cooler	coated	223K.1	1 unit(s)	9.150,00	7.320,00



### Water bath

Phönix Instrument.

- Stainless steel inner tank
- LCD display for displaying setpoint/actual temperature values
- Integrated digital clock (1 min to 99 h, 59 min or continuous operation)
- Overheating protection
- Heater exposed on floor
- Internal water drainage tube with integrated quick-release coupling

#### Technical specifications:

Art. No.	1T1E.1	EEA3.1	EEA4.1	EEA5.1
Type	WB-5	WB-12	WB-22	WB-22-P
Bath volume	5 l	12 l	22 l	
Inner length	270 mm	290 mm	470 mm	
Inner width	120 mm	230 mm	290 mm	
Inner height	150 mm			
Outer length	480 mm		680 mm	
Outer width	215 mm	310 mm	365 mm	
Outer height	335 mm	375 mm	395 mm	
Temperature constancy	±0,5 K			±0,2 K
Heating output	700 W	900 W	1100 W	
Max. loading of	2 test tube racks	4 test tube racks	8 test tube racks	
Weight	8 kg	12 kg	18 kg	19 kg
Mains connection	230 V, 50 Hz			

**Delivery incl.** removable bottom and stainless steel cover.

#### WB series standard model

Operating temperature range from 5 °C above room temperature to 99 °C (temperature adjustment range from 10 to 99 °C).

Type	Bath volume (l)	Art. No.	Pack Qty.	€	€
WB-5	5	1T1E.1	1 unit(s)	494,50	395,60
WB-12	12	EEA3.1	1 unit(s)	607,40	485,90
WB-22	22	EEA4.1	1 unit(s)	987,95	790,10

#### WB-22-P model with pump

Operating temperature range from 5 °C above room temperature to 85 °C (temperature adjustment range from 10 to 85 °C).

With built-in circulation pump for faster and more even heat distribution within the bath.

Type	Bath volume (l)	Art. No.	Pack Qty.	€	€
WB-22-P	22	EEA5.1	1 unit(s)	1.091,15	872,90



**-20%**



## Vacuum system LVS 105 T-10 ef+

WELCH Vacuum.

Specially designed for rotary evaporators, distillation, filtration, vacuum ovens and vacuum drying. With chemical-resistant diaphragm vacuum pump and vacuum controller VCpro600. To ensure a freely selectable vacuum of  $\pm 1$  mbar, the pump speed is continuously adapted to the gas load.

### Technical specifications:

<b>Art. No.</b>	<b>NH35.1</b>
System	LVS 105 T-10 ef+
Suction capacity (l/min)	18.0
End vacuum (abs.)	2,0 mbar
Connection	for hose inner $\varnothing$ 8 mm
Materials in contact with media	pump head: PTFE with carbon fibre reinforcement, diaphragms: elastomer with PTFE coating, valves: PEEK, seals: EPDM, screw fittings/connecting elements: PP, PVDF, vacuum hose: PTFE
Port	RS 232, LAN
W x D x H	250 x 260 x 435 mm
Weight	9,5 kg
Mains connection	115–240 V, 50/60 Hz

### Advantages:

- Faster process results are ensured by constant evaporation and degassing
- Automatic vacuum adjustment and control
- Controller with large, multilingual colour display and light/dark screen mode for optimum visibility
- Integrated solvent library with stored distillation-specific parameters and freely adjustable boiling points; storage of individual pressure curves for novel processes possible
- With communication interface for remote control/monitoring, for downloading logged process data and for software updates
- Low-noise operation through speed reduction

**Delivery incl.** chemical-resistant diaphragm pump, built-in controller, ecoflex control unit, suction-side separator with 500 ml round bottom flask, pressure-side intensive cooler with 500 ml round bottom flask and safety valve.

Type	Art. No.	Pack Qty.	€	€
LVS 105 T-10 ef+	<b>NH35.1</b>	1 unit(s)	4.579,50	<b>3.663,60</b>



**-20 %**

## Syringe filters ReZist®

Cytiva.

With hydrophobic PTFE membrane.

For ventilation, gas filtration and HPLC sample preparation of organic solutions.

### Technical specifications:

Art. No.	5994.2	5996.2	5998.2	6000.2
Ø membrane	30 mm			
Ø housing	34 mm			
Membrane material	hydrophobic PTFE			
Housing material	PP			
Inlet connection	Luer-Lock connector			
Outlet connection	Luer connector			

Not a medical device / Not an IVD product

Pore size (µm)	Sterility	Ø membrane (mm)	Colour coding	Art. No.	Pack Qty.	€	€
0,2	Non-sterile	30	white	5994.2	100 unit(s)	605,25	484,15
1,0	Non-sterile	30	yellow	5998.2	100 unit(s)	605,25	484,15
0,45	Non-sterile	30	green	5996.2	100 unit(s)	605,25	484,15
5,0	Non-sterile	30	grey	6000.2	100 unit(s)	605,25	484,15



**-20 %**

## Syringe filters SPARTAN®

Cytiva.

With hydrophilic membrane made of regenerated cellulose (RC).

Specially developed for cleaning HPLC samples and for filtration of aqueous and organic solvents.

### Technical specifications:

Art. No.	5989.2	5992.2	0062.2	5824.2
Ø membrane	13 mm		30 mm	
Ø housing	17 mm		34 mm	
Membrane material	RC			
Housing material	PP			
Sample volume	~5 ml		~100 ml	
Dead volume	10 µl		50 µl	
Filtration area	0.75 cm <sup>2</sup>		5.7 cm <sup>2</sup>	
Max. application temperature	80 °C			
Max. operating pressure	7 bar			
Inlet connection	Luer-Lock connector			
Outlet connection	Luer connector			

Not a medical device / Not an IVD product

Pore size (µm)	Sterility	Ø membrane (mm)	Colour coding	Art. No.	Pack Qty.	€	€
0,2	Non-sterile	13	dark brown	5989.2	100 unit(s)	387,00	309,60
0,2	Non-sterile	30	dark brown	5824.2	100 unit(s)	441,85	353,45
0,45	Non-sterile	13	light brown	5992.2	100 unit(s)	387,00	309,60
0,45	Non-sterile	30	light brown	0062.2	100 unit(s)	437,55	350,00



**Vacuum filtration unit DURAN® 47 mm with ground joint**

DWK Life Sciences. Material: borosilicate glass, PTFE. Autoclavable: yes.

For coarse and membrane filtration, retention analysis, particle tests and microbiology, as well as for filtration of alkali and aggressive media. For use with filter papers, membrane filters or glass filters with Ø of 47 mm or 50 mm. Temperature stable up to +180 °C.

- Parts in contact with media are made of glass and PTFE, therefore are suitable for universal use, biologically inert and corrosion resistant
- Scaled reservoir for easier metering and evaluation
- Plates are optionally available in porosity grades of 1-4, which means they are also suitable for analytical filtration
- Fast and easy to clean
- Connection hose suitable for hoses with an inside Ø of 5–8 mm

**Delivery incl.** slit-sieve plate as a filter holder, glass filter disc, porosity 2 and vacuum bottle.

Type	Funnel volume (ml)	Bottle volume (ml)	Suitable for	Art. No.	Pack Qty.	€	€
Filtration unit 250 ml / 1000 ml	250	1,000	filter Ø: 47/50 mm	<b>XT09.1</b>	1 unit(s)	632,00	<b>505,60</b>
Filtration unit 500 ml / 2000 ml	500	2,000	filter Ø: 47/50 mm	<b>HKL5.1</b>	1 unit(s)	747,00	<b>597,60</b>





### Gas safety burner Gasprofi 1 SCS *micro*

WLD-TEC.

Space-saving laboratory gas burner for microbiology, cell biology and biotechnology.

**Features:**

- **5 operating modes:**  
**Key function:** flame is started and stopped by actuating the function button, or the flame extinguishes after a preselected time  
**IR sensor:** contactless On/Off of the flame via IR sensor or the flame extinguishes after a preselected time (1 s to 60 min) or auto-off with teach function (1 s to 60 min)  
**Foot-switch control:** flame burns until the foot-switch is pressed or start/stop with automatic switch-off (1 s to 60 min)
- Stainless steel housing and operating elements
- Operation either with natural gas or propane/butane gas
- Tilt adjustment left/right
- Continuous cartridge operation: 45 min with CV 360, 170 min with C 206, 345 min with CV 470 plus
- Removable burner head

**Technical specifications:**

Art. No.	AN82.1
Type	Gasprofi 1 SCS micro
Foot switch operation is possible	yes
IR sensor operation is possible	yes
Detection range of IR sensor	5-50 mm
Width	85 mm
Depth	86 mm
Height	49 mm
Weight	930 g

**Delivery incl.** stainless steel foot-switch, IR sensor, nozzles for natural gas, propane/butane gas, hose connector with union nut and plug-in power supply. If cartridges are required, please order gas adapter and cartridge separately.

Type	Art. No.	Pack Qty.	€	€
Gasprofi 1 SCS micro	AN82.1	1 unit(s)	682,65	580,20



### Gas burners for cartridges

Usbeck.

With air regulation and needle valve.  
For operation with cartridge type 1430.

**Technical specifications:**

Art. No.	21LL.1	21LK.1
Type	1421	1422
Weight	190 g	145 g

**Delivery without** cartridge, please order separately.

**(1) According to Bunsen model 1422**

- Max. temperature 1530 °C
- Consumption approx. 0.13 l/h
- Dimensions: H 85 mm, Ø head 20 mm

Type	Art. No.	Pack Qty.	€	€
1422	21LK.1	1 unit(s)	46,20	39,20

**(2) According to Teclu model 1421**

- Max. temperature 1620 °C
- Consumption approx. 0.13 l/h
- Dimensions: H 140 mm, Ø head 17 mm

Type	Art. No.	Pack Qty.	€	€
1421	21LL.1	1 unit(s)	50,55	42,95



### Gas cartridges with valve type 1430

Usbeck.

Butane/propane mixture 70/30%. Valve cartridges can be removed from the unit even if they are not yet completely empty. Multiple use possible. Burning time approx. 3 h. Weight 220 g. Dimensions: H 92 mm, Ø 104 mm.

**Danger H220-H280**

Designation	Art. No.	Pack Qty.	€	€
Valve cartridge type 1430, 220 g	21LN.1	6 unit(s)	98,70	32,90



**Narrow mouth bottle square**

DWK Life Sciences. Material: soda-lime glass.  
Temperature stability up to +100 °C.

Delivery without screw cap, please order separately.

**Clear glass**

Vol. (ml)	Width (mm)	Depth (mm)	Height (mm)	Thread	Art. No.	Pack Qty.	€	€
100	49	49	119	32, high form	EEK8.1	10 unit(s)	46,40	37,10
250	64	64	155	32, high form	EEK9.1	10 unit(s)	79,15	63,30
500	77	77	186	32, high form	EEL0.1	10 unit(s)	87,80	70,20
1,000	97	97	223	45, high form	EEL1.1	10 unit(s)	132,60	106,05

**Brown glass**

Delivery incl. pouring ring and dust cap.

Vol. (ml)	Width (mm)	Depth (mm)	Height (mm)	Thread	Art. No.	Pack Qty.	€	€
100	49	49	119	32, high form	EEL2.1	10 unit(s)	46,40	37,10
250	64	64	155	32, high form	EEL3.1	10 unit(s)	79,15	63,30
500	77	77	186	32, high form	EEL4.1	10 unit(s)	87,80	70,20
1,000	97	97	223	45, high form	EEL5.1	10 unit(s)	132,60	106,05



**-20%**



**-20%**

**Accessories tamper evident screw caps for narrow neck bottles, square**

DWK Life Sciences. Material: PP.  
Colour: blue.

Thread	Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
32, high form	45	32	EEL6.1	10 unit(s)	16,65	13,30
45, high form	60	35	EEL7.1	10 unit(s)	17,40	13,90

**Accessories safety screw caps for narrow neck bottles, square**

DWK Life Sciences. Material: PP.  
Colour: red. The safety valve opens above a pressure of 0.1 bar.

Thread	Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
32, high form	45	32	EEL8.1	10 unit(s)	46,50	37,20
45, high form	60	35	EEL9.1	10 unit(s)	53,90	42,40



**Refrigerator Performance SRFvg series**

Liebherr.

**General information for all models:**

- Cooling temperature is adjustable from +3 to +16 °C
- Digital temperature display (resolution 0.1 °C)
- With convection cooling
- Temperature constancy ±3.0 K
- Operation via three keys, self-explanatory/language-supported menu flow, nine languages available
- Memory for min./max. temperatures, recording duration 999 h or 42 d. With the option to reset the time and min./max. temperature for a new recording (after checking the temperatures)
- Feedthrough for external sensors (Ø 10 mm)
- With lockable door
- With alarm relay, potential-free contact

**Technical specifications:**

Art. No.	20EY.1	20H0.1	20H1.1
Type	SRFvg 3501	SRFvg 4001	SRFvg 5501
Cooling capacity	261 l	298 l	441 l
Refrigeration temperature from	+3 °C		
Refrigeration temperature up to	+16 °C		
Number of grates	4	5	
Outer width	597 mm		747 mm
Outer depth	654 mm		769 mm
Outer height	1,684 mm	1,884 mm	1,684 mm
Inner width	460 mm		606 mm
Inner depth	423 mm		536 mm
Inner height	1,460 mm	1,660 mm	1,460 mm
Thawing method	automatic		
Energy consumption (24 h)	0.619 kWh	0.669 kWh	0.684 kWh
Weight	66 kg	71 kg	85 kg
Mains connection	220–240 V, 50 Hz		

There are additional transport costs for delivery to the point of use. We are happy to provide you with these on request.

**With standard door/solid door**

Type	Art. No.	Pack Qty.	€	€
SRFvg 3501	20EY.1	1 unit(s)	2.385,45	1.908,10
SRFvg 4001	20H0.1	1 unit(s)	2.471,45	1.976,90
SRFvg 5501	20H1.1	1 unit(s)	2.965,95	2.372,50



Cat. II



**Cold protection gloves Ice-Grip® 691**

KCL by Honeywell. Material: nylon, PVC.

Acc. to EN 420, EN 388 (2121), EN 511 (120). Acc. to EU 1935/2004 suitable for handling and processing foodstuffs.

The breathable, lightweight and well-insulated Thinsulate® material is used as lining. Palm with PVC coating, plus well sealed, insulating knitted cuff. Length 280–330 mm.

- High cold protection combined with touch sensitivity
- The lightweight materials and fit provide high wear comfort
- Secure grip even of wet parts
- Breathable without leaving moisture on the hands
- Resistant to cold down to -50 °C

Size	Colour	Art. No.	Pack Qty.	€	€
7	dark blue, grey	CC00.1	1 pair	18,75	14,00
8	dark blue, grey	CC01.1	1 pair	18,75	14,00
9	dark blue, grey	CC02.1	1 pair	18,75	14,00
10	dark blue, grey	CC03.1	1 pair	18,75	14,00



NEW/+

**Spray bottle with atomiser**

Semadeni. Material: HDPE, transparent.

Bottle with pump sprayer and protective cap.

The pump sprayer produces a fine spray jet.

Spray volume per stroke approximately 0.21 ml.

Vol. (ml)	Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
25	28	95	283H.1	6 unit(s)	23,85	19,00
30	28	103	283K.1	6 unit(s)	26,25	20,95
50	35	116	283L.1	6 unit(s)	22,65	18,05
75	35	137	283N.1	6 unit(s)	25,60	20,40
100	44	139	283P.1	2 unit(s)	7,75	6,15
125	44	145	283T.1	2 unit(s)	9,25	7,35
150	44	161	283X.1	2 unit(s)	8,75	6,90
200	49	180	283Y.1	2 unit(s)	9,25	7,35
250	49	205	284A.1	2 unit(s)	9,35	7,45



**-15%**

## Drying cabinet

Memmert.

### General features:

- Stainless steel interior (1.4301)
- Fully insulated stainless steel door (two-wing from size 450 upwards)
- Fresh air supply by electronically adjustable exhaust air flap
- Textured stainless steel housing
- Model sizes 450 and 750 with moveable and lockable rollers
- Interior depth minus 39 mm for devices with forced air circulation
- Depth plus door handle 56 mm
- Incl. factory calibration certificate valid for +160 °C
- Power supply for models 30 to 260: 230 V, 50/60 Hz, power supply for models 450 and 750: 400 V and 3 x 220 V, n/a 50/60 Hz

### Other features:

- German, English, French and Spanish language options
- Digital timer (adjustable from 1 min to 99 d, 23 h) or continuous operation
- "SetpointWAIT" function – process time does not start until the target temperature is reached

### Models: UF with forced air circulation (fan)

- **Operating temperature range from 10 °C above room temperature to 300 °C**  
Setting temperature from 20 to 300 °C  
Setting accuracy up to 99.9 °C: 0.1 K, from 100 °C: 0.5 K
- Graphical single TFT display with touch screen for operation and displaying temperature, program runtime and air flap position
- Integrated data logger with 10-year memory
- With Ethernet communication port for reading out log data
- Protection against overheating
- Quiet air turbine for air circulation mode (air turbine can be controlled and switched off)

**Delivery incl.** stainless steel grating (models 30 and 55: 1 grate, models 75 to 750: 2 grates).

Please note: additional transport costs apply for delivery to the place of use. We will be happy to inform you of these on request.

### Technical specifications:

Art. No.	TY06.1	TY07.1	TY08.1	TY09.1	TY10.1	TY11.1
Type	UF 30	UF 55	UF 75	UF 110	UF 160	UF 260
Operating temperature	from 10 °C above room temperature to 300 °C					
Vol.	32 l	53 l	74 l	108 l	161 l	256 l
Inner width	400 mm			560 mm		640 mm
Inner height	320 mm	400 mm	560 mm	480 mm	720 mm	800 mm
Inner depth	250 mm	330 mm		400 mm		500 mm
Outer width	585 mm			745 mm		824 mm
Outer height	707 mm	787 mm	947 mm	867 mm	1,107 mm	1,186 mm
Outer depth	434 mm	541 mm		584 mm		684 mm
Max. removable shelves	3	4	6	5	8	9
Power consumption	1,600 W	2,000 W	2,500 W	2,800 W	3,200 W	3,400 W
Temporal temp. variance	<±0,5 °C	<±0,6 °C	<±0,7 °C	<±0,6 °C	<±0,8 °C	<±0,9 °C
Spatial temp. deviation	<±3,5 °C	<±2,6 °C	<±3,2 °C	<±3,6 °C	<±3,5 °C	
Weight	44 kg	55 kg	65 kg	74 kg	96 kg	110 kg
Mains connection	230 V, 50/60 Hz					

Type	Vol. (l)	Art. No.	Pack Qty.	€	€
UF 30	32	TY06.1	1 unit(s)	1.475,00	1.253,00
UF 55	53	TY07.1	1 unit(s)	1.777,00	1.510,00
UF 75	74	TY08.1	1 unit(s)	2.103,00	1.787,00
UF 110	108	TY09.1	1 unit(s)	2.456,00	2.087,00
UF 160	161	TY10.1	1 unit(s)	3.232,00	2.747,00
UF 260	256	TY11.1	1 unit(s)	4.121,00	3.502,00



**-25%**

**Glass vials with rolled rim**

Hecht. Material: soda-lime glass, clear.

Delivery incl. snap-on lid made of LDPE.

**Short**

Vol. (ml)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
2	11.5	36	CLA0.1	690 unit(s)	172,00	129,00
5	24	24	CLA1.1	154 unit(s)	48,15	36,05
8	24	34	CLA2.1	154 unit(s)	59,80	44,80
10	24	41	CLA3.1	154 unit(s)	56,55	42,40
15	26	48	CLA4.1	130 unit(s)	51,95	38,90
20	26	60	CLA5.1	130 unit(s)	58,65	43,95
30	28	72	CLA6.1	108 unit(s)	58,60	43,90
60	32	106	CLA7.1	84 unit(s)	75,25	56,40

**Tall**

Vol. (ml)	Ø ext. (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
3	19	30	CLA8.1	200 unit(s)	60,25	45,15
5	19	40	CLA9.1	200 unit(s)	65,45	49,00
10	22	45	CLC0.1	200 unit(s)	66,85	50,10
25	30	50	CLC1.1	200 unit(s)	85,20	63,85
30	28	75	CLC2.1	200 unit(s)	107,15	80,30
40	30	80	CLC3.1	200 unit(s)	108,15	81,10
50	30	100	CLC4.1	200 unit(s)	128,40	96,25
100	34	145	CLC5.1	100 unit(s)	138,75	104,00



**-20%**

**NEW/+**



**Narrow mouth bottle**

Semadeni. Material: PET.

Suitable for sampling, as well as for storing and transporting liquids and solids. Suitable for foodstuffs.

Temperature stable from -20 to +60 °C.

Delivery without screw-cap closure, please order separately.

**Transparent**

Vol. (ml)	Ø (mm)	Height (mm)	Ø inner neck (mm)	Art. No.	Pack Qty.	€	€
100	48	95	20	25H1.1	10 unit(s)	7,20	5,75
200	60	116	20	25H2.1	10 unit(s)	11,80	9,40
250	62	129	20	25H3.1	10 unit(s)	11,80	9,40
500	79	154	20	25H4.1	5 unit(s)	8,35	6,65
1,000	88.5	218	20	25H5.1	5 unit(s)	11,25	8,95

**Brown-transparent**

Vol. (ml)	Ø (mm)	Height (mm)	Ø inner neck (mm)	Art. No.	Pack Qty.	€	€
100	48	95	20	25H6.1	10 unit(s)	7,65	6,05
200	60	116	20	25H7.1	10 unit(s)	12,45	9,85
250	62	129	20	25H8.1	10 unit(s)	11,90	9,45
500	79	154	20	25H9.1	5 unit(s)	8,75	6,90
1,000	88.5	218	20	25HA.1	5 unit(s)	11,90	9,45



**A**uto  
clavable

**Measuring cylinders class A blue graduations**

Hirschmann. Material: DURAN® glass. Autoclavable: yes.

High form. Acc. to DIN ISO 4788. Certified conformity, with retrace code. Calibrated to IN. With hexagonal base and spout.

**-25%**

Vol. (ml)	Graduations (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
5	0.1	±0,05	13	115	Y568.1	2 unit(s)	28,65	21,45
10	0.2	±0,10	14	140	Y569.1	2 unit(s)	27,15	20,30
25	0.5	±0,25	21	170	Y570.1	2 unit(s)	27,15	20,30
50	1.0	±0,50	25	200	Y571.1	2 unit(s)	29,60	22,15
100	1.0	±0,50	29	260	Y572.1	2 unit(s)	30,80	23,05
250	2.0	±1,00	39	335	Y573.1	2 unit(s)	54,50	40,85
500	5.0	±2,50	53	390	Y574.1	2 unit(s)	94,65	70,95
1,000	10.0	±5,00	65	470	Y575.2	1 unit(s)	71,00	53,20
2,000	20.0	±10,00	85	500	Y576.1	1 unit(s)	123,65	92,70





### Analytical balances ADB/ADJ series

KERN.

**Application:**

Item counting and percentage weighing

**Features:**

- Stainless steel weighing platform
- With RS 232 data port
- Dimensions of entire balance incl. draft shield (W):  
W 230 x D 310 x H 330 mm
- Weighing space dimensions: W 170 x D 160 x H 205 mm

Delivery incl. mains adapter.

**-20%**



#### ADB series with external calibration function

Type	Weighing range (g)	Readability (g)	Linearity (g)	Reproducibility (%)	Weighing pan (mm)	Art. No.	Pack Qty.	€	€
ADB 100-4 (W)	120	0.0001	±0,0004	±0,0002	Ø 90	HPP9.1	1 unit(s)	770,00	616,00
ADB 200-4 (W)	210	0.0001	±0,0004	±0,0002	Ø 90	HPT0.1	1 unit(s)	850,00	680,00

#### ADJ series with internal automatic calibration, either after a change of temperature ≥2 °C or time-controlled

Type	Weighing range (g)	Readability (g)	Linearity (g)	Reproducibility (%)	Weighing pan (mm)	Art. No.	Pack Qty.	€	€
ADJ 100-4 (W)	120	0.0001	±0,0004	±0,0002	Ø 90	KHE3.1	1 unit(s)	910,00	728,00
ADJ 200-4 (W)	210	0.0001	±0,0004	±0,0002	Ø 90	KHE4.1	1 unit(s)	990,00	792,00



**-20%**

### Precision balances Scout™ series

Ohaus.

- With external calibration
- Draft shield for models with 0.001 g readability (internal height 45 mm); (W) = incl. draft shield
- Battery and mains operation
- Connection options for data logging (please order separately)

Delivery incl. M1 test weight included in models up to 620 g and mains adapter. Without batteries, please order separately. Four 1.5 V AA batteries are required.

- Application: determining density
- Background-lit LCD display

Type	Weighing range (g)	Readability (g)	Linearity (g)	Reproducibility (g)	Weighing pan (mm)	Art. No.	Pack Qty.	€	€
SKX123 (W)	120	0,001	±0,003	±0,002	Ø 93	EHE8.1	1 unit(s)	521,00	416,00
SKX222	220	0,01	±0,01	±0,01	Ø 120	EHE9.1	1 unit(s)	380,00	304,00
SKX421	420	0,1	±0,1	±0,1	Ø 120	EHH4.1	1 unit(s)	223,00	178,00
SKX422	420	0,01	±0,01	±0,01	Ø 120	EHH0.1	1 unit(s)	453,00	362,00
SKX621	620	0,1	±0,1	±0,1	170 x 140	EHH5.1	1 unit(s)	251,00	200,00
SKX622	620	0,01	±0,02	±0,01	Ø 120	EHH1.1	1 unit(s)	491,00	392,00
SKX1202	1200	0,01	±0,03	±0,02	170 x 140	EHH2.1	1 unit(s)	582,00	465,00
SKX2201	2200	0,1	±0,1	±0,1	170 x 140	EHH6.1	1 unit(s)	373,00	298,00
SKX2202	2200	0,01	±0,03	±0,02	170 x 140	EHH3.1	1 unit(s)	624,00	499,00
SKX6201	6200	0,1	±0,2	±0,1	170 x 140	EHH7.1	1 unit(s)	504,00	403,00
SKX8200	8200	1	±1	±1	170 x 140	EHH8.1	1 unit(s)	305,00	244,00



**NEW / +**

**Penetration thermometer testo 106 Set**

Testo.

For fast and reliable measurement of the core temperature of e.g. food or other semi-solid samples.

- Small, handy, can be operated with few buttons and immediately ready for use
- Easy-to-read LCD display
- Alarm management: visual and audible alarm when limits are exceeded; limits freely selectable
- Automatic end value recognition (auto-hold)
- Fast temperature recording – up to two measurements per second
- Slim, robust measuring tip that leaves only small puncture holes
- Together with waterproof protective cover, IP 67-protected, EN 13485-certified and HACCP-compliant

**Technical specifications:**

Art. No.	<b>22C0.1</b>
Type	testo 106 set
Parameters	temperature
Temperature measuring range	-50 to +247 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C (-30 to +100 °C), ±1% of m.v. (+100 to +275 °C), ±1.0 °C (-50 to -30 °C)
Measuring cycle	0.5 s
IP rating	67
Sensor: Ø x L	2.3 x 55 mm
L x W x H	218 x 34 x 20 mm
Weight	80 g
Power supply	CR 2032 button cell battery (3 V)

**Delivery incl.** protective cover, retaining clip with sensor protective cap, calibration protocol and batteries.

Version	Art. No.	Pack Qty.	€	€
Penetration thermometer	<b>22C0.1</b>	1 unit(s)	69,05	<b>55,20</b>



**Combi table-top multimeter PC 50 VioLab**

Dostmann.

For measuring pH, redox, conductivity, TDS and temperature.

- Large LCD display, backlit with simultaneous display of measured value and temperature
- Automatic and manual temperature compensation
- Automatic calibration with display of the calibrated ranges, storage of current calibration
- Manual calibration possible with user-defined buffer
- Confirmation when a stable measured value is reached
- Adjustable reference temperature, cell constant and temperature coefficient
- 201T pH single-rod measuring cell with integrated temperature gauge for common aqueous samples. pH range: 0 to 14. Operating temperature 0 to +60 °C. Ceramic diaphragms, gel electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm
- 2301T conductivity sensor with integrated temperature gauge. Measuring range: 10 µS to 200 mS/cm. Operating temperature: 0 to +60 °C. Steel shaft, length/Ø: 120/12 mm

**Technical specifications:**

Art. No.	<b>HXC0.1</b>
Type	PC 50 VioLab
Parameters	pH, redox, conductivity, TDS, temperature
Channels	2
Sensor	201T (pH), 2301T (EC)
pH measuring range	0 to 14
pH resolution	0,01 pH
pH accuracy	±0.01 pH
Voltage measuring range	-1000 to +1000 mV
Voltage resolution	1 mV
Voltage accuracy	±1 mV
Conductivity measuring range	0 µS/cm to 200 mS/cm
Conductivity resolution	automatic (0.01 µS/cm – 0.1 mS/cm)
	±0.4 µmS/cm (0 to 19.99 µmS/cm), ±4 µmS/cm (20.0 to 199.9 µmS/cm), ±40 µS/cm (200 to 1999 µS/cm), ±0.4 mS/cm (2.00 to 19.99 mS/cm), ±4 mS/cm (20.0 to 200.0 mS/cm)
Conductivity accuracy	
Reference temp. conductivity	+15 – +30 °C
Temperature coefficient	0 – 10,00 % / °C
Cell constant	0,1 / 1,0 / 10 cm <sup>-1</sup>
TDS measuring range	0 mg/l to 100 g/l
TDS resolution	automatic (0.01 mg/l – 0.1 g/l)
TDS accuracy	±0.2 mg/l (0 to 19.99 mg/l), ±2 mg/l (20.0 to 199.9 mg/l), ±20 mg/l (200 to 1999 mg/l), ±0.2 g/l (2.00 to 19.99 g/l), ±1 g/l (20.0 to 100.0 g/l)
Temperature measuring range	0 to +100 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C
Calibration points	1/2/3 (pH), 1/2/3/4 (EC)
Connection	BNC (pH), BNC (EC), Cinch (°C)
L x W x H	160 x 185 x 70 mm
Weight	550 g
Mains connection	100–240 V, 50/60 Hz

**Delivery incl.** 201T pH single-rod measuring cell, 2301T conductivity sensor, buffer solutions (pH 4.01/7.00; EC 1413 µS/cm / 12.88 mS/cm), storage solution, electrode holder and mains adapter.

Sensor	Art. No.	Pack Qty.	€	€
201T (pH), 2301T (EC)	<b>HXC0.1</b>	1 unit(s)	827,75	<b>662,20</b>



**-20%**

**Technical specifications:**

<b>Art. No.</b>	<b>HAE3.1</b>
Type	pH 50 VioLab set
Sensor	201T
Parameters	pH, redox, temperature
pH measuring range	0 to 14
pH resolution	0,01 pH
pH accuracy	±0.01
Voltage measuring range	-1999 to +1999 mV
Voltage resolution	1 mV
Voltage accuracy	±1 mV
Temperature measuring range	0 to +100 °C
Temperature resolution	0.1 °C
Temperature accuracy	±0.5 °C (+5 to +60 °C), ±1 °C (outside)
Temperature sensor	NTC 30 kΩ
Calibration points	1/2/3 (pH)
Calibration memory	current calibration
Data memory	25 measurements
Port	without
Connection	BNC (pH), Cinch (°C)
L x W x H	160 x 190 x 70 mm
Power supply	mains adapter
Mains connection	100–240 V, 50/60 Hz

**Benchtop pH meters pH 50 VioLab**

Dostmann.

- Large screen with simultaneous display of pH or mV value and temperature
- Automatic or manual temperature compensation
- Automatic calibration
- Saves the current calibration
- Confirmation when a stable measured value is reached

For common aqueous samples.

201T pH single-rod measuring cell with integrated temperature gauge. pH range: 0 to 14. Operating temperature: 0 to +60 °C, ceramic diaphragms, gel electrolyte, plastic shaft. Shaft length/Ø: 120/12 mm.

**Delivery incl.** 201T pH single-rod measuring cell, buffer solutions (pH 4.01 and 7.00, each 50 ml), electrode holder and mains adapter.

Type	Art. No.	Pack Qty.	€	€
pH 50 VioLab set	<b>HAE3.1</b>	1 unit(s)	440,75	<b>352,60</b>



**-20%**

**pH buffer solution ROTILABO® in sachets**

ROTH SELECTION.

The quantity of reagent contained in a sachet (25 ml) is sufficient for a single calibration.

- Traceable thanks to comparison with standard references from the National Institute of Standards and Technology (NIST) and the National Metrology Institute of Germany (PTB)
- With certificate of analysis for documenting the quality, traceability and accuracy

**PH 4,01**

pH value	pH accuracy	Art. No.	Pack Qty.	€	€
4,01	±0.02	<b>KAY0.1</b>	20 unit(s)	32,15	<b>25,65</b>

**PH 7,00**

pH value	pH accuracy	Art. No.	Pack Qty.	€	€
7,00	±0.02	<b>KAY1.1</b>	20 unit(s)	32,15	<b>25,65</b>

**PH 10,01**

pH value	pH accuracy	Art. No.	Pack Qty.	€	€
10,01	±0.02	<b>KAY2.1</b>	20 unit(s)	32,15	<b>25,65</b>



**-30%**

### Single-use cuvettes

BRAND.

- Two optical windows
- Optically flawless transparency
- Recessed windows to protect against scratching
- Arrow mark to indicate direction of transmission
- Standard layer thickness 10 mm
- Dimensions: 12.5 x 12.5 x 45 mm

Sorted by manufacturing mould cavity number to ensure the lowest variation in absorbance coefficients.

### Polystyrene

Material: PS.

- Permeability range: 340–900 nm
- Standard deviation: ≤0.005 absorbance coefficients at 360 nm

Type	Volume (ml)	Art. No.	Pack Qty.	€	€
Semi-micro	1.5 to 3.0	Y195.1	100 unit(s)	15,75	11,00
Macro	2.5 to 4.5	Y194.1	100 unit(s)	15,30	10,60

### PMMA

Material: PMMA.

- Permeability range: 300–900 nm
- Standard deviation: ≤0.004 absorbance coefficients at 320 nm

Type	Volume (ml)	Art. No.	Pack Qty.	€	€
Semi-micro	1.5 to 3.0	Y197.1	100 unit(s)	19,70	13,75
Macro	2.5 to 4.5	Y196.1	100 unit(s)	18,30	12,75



**-25%**

### Wash bottle ROTILABO® with overpressure valve

ROTH SELECTION.

Material: LDPE (bottle types acetone and MEK made of PP), screw cap and spray pipe made of PP.

Overpressure valve in the screw cap extensively prevents leakage, dripping or escape of the liquid from the spray pie, e.g. in the case of temperature fluctuations.

With permanent four-language content imprint (German, English, French, Spanish) and hazard warning acc. to GHS.

**Note:** the chemical resistance of the spray bottles is limited when aggressive filling media are used. The bottles should therefore be replaced regularly and not used for analytical or critical applications.

#### Volume 500 ml

Version	Vol. (ml)	Thread	Art. No.	Pack Qty.	€	€
Dist. water	500	GL 25	HL52.1	1 unit(s)	10,70	8,00
Acetone	500	GL 25	HL51.1	1 unit(s)	10,70	8,00
Ethanol	500	GL 25	HL54.1	1 unit(s)	10,70	8,00
Isopropanol	500	GL 25	HL55.1	1 unit(s)	10,70	8,00
Methyl ethyl ketone (MEK)	500	GL 25	PY44.1	1 unit(s)	10,70	8,00

#### Volume 1000 ml

Version	Vol. (ml)	Thread	Art. No.	Pack Qty.	€	€
Dist. water	1,000	GL 32	HL58.1	1 unit(s)	12,85	9,60
Acetone	1,000	GL 32	HL57.1	1 unit(s)	12,85	9,60
Ethanol	1,000	GL 32	HL59.1	1 unit(s)	12,85	9,60
Isopropanol	1,000	GL 32	HL61.1	1 unit(s)	12,85	9,60

### Pasteur pipettes with folding bellows graduated

Kartell. Material: PE.

Dropping pipettes for use in laboratory analytics.

Not a medical device / Not an IVD product

**-25%**



Vol. (ml)	Graduation range (ml)	Total length (mm)	Ø ext. (mm)	Ø Inner outlet (mm)	Sterility	Pack.	Art. No.	Pack Qty.	€	€
1.5	0,5-1,5	134	8	2	Non-sterile	1 x 100	TT22.1	100 unit(s)	20,20	15,10
5	1-5	195	5.5	1.5	Non-sterile	1 x 100	TT23.1	100 unit(s)	23,10	17,25



## Spectrophotometer EMC-11 series

EMCLAB Instruments.

Easy-to-use spectrophotometer for photometric and wavelength measurements as well as quantitative standard applications.

- TFT colour screen
- Self-test
- Quickly adjustable wavelength
- Easy to use via rotary knob and app menu
- Sample compartment for various cuvette holders
- Functional on-board software
- Including PC software EMC-λ Pro; software is web browser-based and compatible with all common WIN operating systems

### Functions of the on-board software:

- Photometric measurement of absorption and transmission
- Concentration measurement against standard sample
- Concentration measurement with equation coefficients
- Store and display up to 200 measurements
- Memory for up to 200 methods and 100 standard curves
- Energy measurement to check light source, monochromator and detector
- General system information

### Functions of the PC software:

- Multiple wavelength measurement: measuring the absorption / transmission of a sample at up to 20 individually specified wavelengths
- Spectrum Scan: measuring the absorption / transmission of a sample over wavelength ranges in defined equidistant intervals
- Quantitative measurement: determining the concentration of a solution in a specific substance
- DNA/RNA measurement: determining the concentration ratio of DNA/RNA samples
- Kinetic measurement: measuring the absorption of a wavelength over a given period of time. For the kinetic analysis of chemical reactions

### Technical specifications:

Art. No.	20KP.1	20KT.1
Type	EMC-11S-V	EMC-11S-UV
Wavelength	325–1000 nm	200–1000 nm
Spectral bandwidth	4 nm	
Optical system	single beam (1200 grid lines/mm)	
Wavelength accuracy	±2 nm	
Wavelength repeatability	1 nm	
Photometric range	0–200 % T, -0,3–3 A, 0–1999 C	
Photometric accuracy	≤±0,5 % T, ±0,004 A @ 1 A	≤±0,5 % T, ±0,005 A @ 1 A
Photometric modes	absorption (A), transmission (T), concentration (C), factor (F)	
Flare	0,2 % T	
Stability	±0,004 A/h @ 500 nm	
Detector	Silicone photodiode	
Centre height	15 mm	
Cuvette holder	4-cell changer for 10 x 10 mm	
Light source	halogen lamp	halogen and deuterium lamp
Port	USB (PC) and parallel interface (printer)	
L x W x H	440 x 350 x 200 mm	
Weight	8 kg	9 kg
Power supply	mains-powered	

**Delivery incl.** PC software and factory calibration certificate.

### VIS EMC-11S-V

For measurements in the visible range of the light spectrum.

Type	Art. No.	Pack Qty.	€	€
EMC-11S-V	20KP.1	1 unit(s)	2.702,55	2.161,80

### UV/VIS EMC-11S-UV

For measurements in the visible range and UV range of the light spectrum.

Type	Art. No.	Pack Qty.	€	€
EMC-11S-UV	20KT.1	1 unit(s)	4.080,70	3.263,70





**-15%**



### Liquid sample bags twirl'em Clean-room

Labplas. Material: LDPE. **Sterile.**

- RNase, DNase and non-pyrogenic
- BPA-free

Packed in double bags of 25 pieces each.

**Delivery incl.** sterilisation certificate.

Vol. (ml)	W x H (mm)	Wall thickness (µm)	Pack.	Art. No.	Pack Qty.	€	€
650	140 x 229	76	40 x 25	<b>21NC.1</b>	1,000 unit(s)	442,99	<b>376,45</b>
800	114 x 305	63	40 x 25	<b>21NA.1</b>	1,000 unit(s)	447,29	<b>380,10</b>
1,500	140 x 382	76	40 x 25	<b>21NE.1</b>	1,000 unit(s)	519,25	<b>441,30</b>
1,650	178 x 305	76	40 x 25	<b>21NH.1</b>	1,000 unit(s)	549,35	<b>466,90</b>

#### With labelling area

Vol. (ml)	W x H (mm)	Wall thickness (µm)	Pack.	Art. No.	Pack Qty.	€	€
650	140 x 229	76	40 x 25	<b>21NL.1</b>	1,000 unit(s)	506,35	<b>430,35</b>
800	114 x 305	63	40 x 25	<b>21NK.1</b>	1,000 unit(s)	514,95	<b>437,65</b>
1,500	140 x 382	76	40 x 25	<b>21NN.1</b>	1,000 unit(s)	596,65	<b>507,10</b>
1,650	178 x 305	76	40 x 25	<b>21NP.1</b>	1,650 unit(s)	692,10	<b>537,25</b>



### Liquid sample bags twirl'em Ecolo

Labplas. Material: LDPE (biodegradable). **Sterile.**

Made of fully biodegradable plastic. Sample bags for collecting, storing and transporting solid, semi-solid and liquid samples.

- RNase, DNase and non-pyrogenic
- BPA-free

Sterility is ensured through extrusion temperatures of more than 220 °C, which kill all bacteria present. Before opening the bags at the perforated line, the bags are sterile inside.



**-15%**

Vol. (ml)	Width (mm)	Height (mm)	Wall thickness (µm)	Pack.	Art. No.	Pack Qty.	€	€
130	76	178	63	2 x 500	<b>21LY.1</b>	1,000 unit(s)	203,20	<b>172,70</b>
450	114	229	63	2 x 500	<b>21N0.1</b>	1,000 unit(s)	246,20	<b>209,25</b>
650	140	229	101	2 x 500	<b>21N1.1</b>	1,000 unit(s)	289,20	<b>245,80</b>
1,500	140	382	76	2 x 500	<b>21N2.1</b>	1,000 unit(s)	364,45	<b>309,75</b>
1,650	178	305	101	4 x 250	<b>21N3.1</b>	1,000 unit(s)	428,95	<b>364,55</b>
2,500	178	382	76	4 x 250	<b>21N4.1</b>	1,000 unit(s)	482,70	<b>410,25</b>

#### With labelling area

Vol. (ml)	Width (mm)	Height (mm)	Wall thickness (µm)	Pack.	Art. No.	Pack Qty.	€	€
60	76	127	63	2 x 500	<b>21N5.1</b>	1,000 unit(s)	213,95	<b>181,80</b>
130	76	178	63	2 x 500	<b>21N6.1</b>	1,000 unit(s)	224,70	<b>190,95</b>
450	114	229	63	2 x 500	<b>21N7.1</b>	1,000 unit(s)	278,45	<b>236,65</b>
650	140	229	101	2 x 500	<b>21N8.1</b>	1,000 unit(s)	364,45	<b>309,75</b>
1,650	178	305	101	4 x 250	<b>21N9.1</b>	1,000 unit(s)	514,95	<b>437,65</b>



**SPECIAL OFFER  
FREE FILTER SETS!**

**NEW / +**

**-20%**

**Ultra-pure water system OmniaTap xs<sup>basic</sup> 5 Promotional sets**

stakpure.

The OmniaTap xs<sup>basic</sup> 5 device series represents the ideal system for providing small quantities of pure and ultrapure water for analytical and life sciences laboratory applications, with a compact design optimised for resource conservation. These devices can be connected directly to the drinking water supply. The OptiFill<sup>basic</sup> dispensing and monitoring unit, supplied as standard, provides a supply of type I ultrapure water and enables convenient and precise filling of laboratory vessels. The integrated 7 l tank with recirculation maintains a consistent type II water quality level. Downstream end devices can be supplied with type II pure water via an optional pressure outlet.

- Usable with water from a drinking water supply
- OptiFill<sup>basic</sup> ergonomic, flexible dispensing and monitoring unit with graphic display
- Two language settings available: DE, EN
- Ultrapure water withdrawal at the touch of a button
- Dispenser has a swivel range of up to 170°
- Display of all operating and performance parameters in real time
- Setting options for conductivity display in MΩ x cm or μS/cm
- Compact design
- Space-saving mounting on a laboratory bench or optionally on a wall
- Password access
- Leak sensor
- Integrated pressure reducer
- Automatic voltage adjustment
- Ready to use, ready to connect, incl. filter cartridges

**OmniaTap xs<sup>basic</sup> 5 Promotional set**

Typical applications:

AAS, IC, ICP, buffer and media preparation.

**Delivery incl.** OmniaTap xs<sup>basic</sup> 5 ultrapure water system, RO cartridge, ultrapure water cartridge, sterile filter capsule (0.2 μm), PE tube Ø 8 mm (L 2.5 m), PE tube Ø 8 mm (L 2.5 m) incl. input protection filter and water connection adapter R 3/4", sterile overflow and sterile breather filter. Also includes UV lamp depending on the model.

**Also incl. free replacement cartridge set**

(pretreatment cartridge and ultrapure water cartridge).

Type	Art. No.	Pack Qty.	€	€
Promotional set OmniaTap xs <sup>basic</sup> 5	27PX.1	1 unit(s)	4-945;00	<b>3.956,00</b>

**Technical specifications:**

Art. No.	27PX.1	27PY.1
Type	Promotional set OmniaTap xs <sup>basic</sup> 5	Promotional set OmniaTap xs <sup>basic</sup> 5 UV
Vol.	7 l	
Conductivity of high-purity water, type I	0.055 μS/cm	
Conductivity of pure water, type II	0.067 - 0.1 μS/cm	
Resistance of high-purity water, type I	18.2 MΩ·cm	
Resistance of pure water, type II	15-0 MΩ·m	15-10 MΩ·m
Withdrawal capacity of high-purity water, type I	≤2 l/min	
Withdrawal capacity of pure water, type II	5 l/h	
Bacteria content of high-purity water, type I	<0,01 KbE/ml	
TOC value of high-purity water, type I	<10 ppb	<5 ppb
Particle content of high-purity water, type I	<1/ml	
Width	253 mm	
Depth	520 mm	
Height	530 mm	
Weight	19 kg	
Min. operating pressure	0,5 bar	
Max. operating pressure	6 bar	
Ambient temperature	2–35 °C	
Connection	R 3/4"	
Mains connection	90–240 V, 50/60 Hz	

**Note:** the specified TOC values may vary depending on the quality of the feed water. The 0.2 μm sterile filter capsule is needed to meet the requirements for particle and bacteria content.

**Feed water requirements:** drinking water acc. to DIN 2000

Feed water temperature (°C)	+2–35
Feed water pressure (bar)	0.5–6
Inlet conductivity (μS/cm)	<2000
Silt density index (SDI)	<10
Dissolved CO2 (ppm)	<30
Free chlorine (ppm)	<3
TOC (ppm)	<1
Hardness (as CaCO3)*	<300
Silica (ppm)	<30
pH range	4–10

Note\*: for higher values, pretreatment must occur first.

**OmniaTap xs<sup>basic</sup> 5 UV Promotional set**

Typical applications:

ultratrace analysis, ICP-MS, HPLC, TOC analysis

**Delivery incl.** OmniaTap xs<sup>basic</sup> 5 UV ultrapure water system, RO cartridge, ultrapure water cartridge, sterile filter capsule (0.2 μm), PE tube Ø 8 mm (L 2.5 m), PE tube Ø 8 mm (L 2.5 m) incl. input protection filter and water connection adapter R 3/4", sterile overflow and sterile breather filter. Also includes UV lamp depending on the model.

**Also incl. free replacement cartridge set**

(pretreatment cartridge and ultrapure water cartridge).

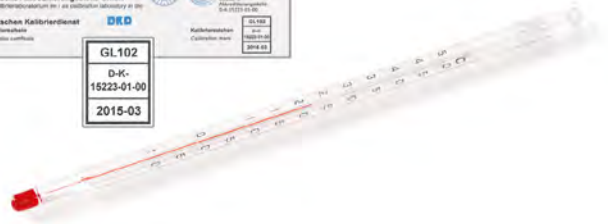
Type	Art. No.	Pack Qty.	€	€
Promotional set OmniaTap xs <sup>basic</sup> 5 UV	27PY.1	1 unit(s)	5-740;50	<b>4.592,40</b>

### Glass thermometer with DAKKS calibration certificate

ROTH SELECTION.

- Enclosed type
- Fill fluid: red
- Capillary form: uncoated, prismatic
- Calibrated fully immersed: yes

**-20%**



Temperature measuring range (°C)	Temperature resolution	Length (mm)	Thermometer Ø (mm)	Art. No.	Pack Qty.	€	€
-10 to +100	1 °C	305	8 – 10	CKX9.1	1 unit(s)	294,55	<b>235,60</b>
-10 to +150	1 °C	305	8 – 10	CKY0.1	1 unit(s)	298,85	<b>239,05</b>
-10 to +200	1 °C	350	8 – 10	CKY1.1	1 unit(s)	307,45	<b>245,95</b>
-10 to +50	0,5 °C	220	8 – 10	CKX7.1	1 unit(s)	294,55	<b>235,60</b>
-10 to +100	0,5 °C	270	8 – 10	CKX8.1	1 unit(s)	305,30	<b>244,20</b>

### Glass thermometer calibrated

Amarell.

With official calibration certificate.

- Enclosed type
- Fill fluid: special filling
- Capillary form: uncoated, prismatic
- Calibrated fully immersed: yes

**-25%**



Temperature measuring range (°C)	Temperature resolution	Length (mm)	Thermometer Ø (mm)	Capillary form	Fill fluid	Art. No.	Pack Qty.	€	€
0 to +50	0,5 °C	220	8 – 9	uncoated, prismatic	red	HXC1.1	1 unit(s)	202,10	<b>151,55</b>
0 to +100	0,5 °C	270	8 – 9	uncoated, prismatic	red	HXC2.1	1 unit(s)	212,85	<b>159,60</b>
0 to +200	1 °C	300	8 – 9	uncoated, prismatic	red	HXC3.1	1 unit(s)	266,60	<b>199,95</b>

### Glass thermometer with red special filling

ROTH SELECTION.

Calibrated fully immersed: yes

Enclosed type, with factory test certificate  
Capillary form: uncoated, prismatic

**-20%**



Temperature measuring range (°C)	Temperature resolution	Length (mm)	Thermometer Ø (mm)	Fill fluid	Art. No.	Pack Qty.	€	€
-10 to +100	1 °C	305	8 – 10	red	ALK8.1	1 unit(s)	179,55	<b>143,60</b>
-10 to +150	1 °C	305	8 – 10	red	ALK9.1	1 unit(s)	183,85	<b>147,05</b>
-10 to +200	1 °C	350	8 – 10	red	ALL0.1	1 unit(s)	196,75	<b>157,35</b>
-10 to +50	0,5 °C	220	8 – 10	red	ALL1.1	1 unit(s)	182,75	<b>146,20</b>
-10 to +100	0,5 °C	270	8 – 10	red	ALL2.1	1 unit(s)	195,65	<b>156,50</b>
-10 to +150	0,5 °C	350	8 – 10	red	ALL3.1	1 unit(s)	204,25	<b>163,40</b>
-10 to +200	0,5 °C	450	8 – 10	red	ALL4.1	1 unit(s)	218,25	<b>174,55</b>
-5 to +50	0,2 °C	350	8 – 10	red	ALL5.1	1 unit(s)	190,30	<b>152,20</b>
-5 to +100	0,2 °C	420	8 – 10	red	ALL6.1	1 unit(s)	218,25	<b>174,55</b>
-10 to +30	0,2 °C	300	8 – 10	red	ALL7.1	1 unit(s)	218,25	<b>174,55</b>
-10 to +50	0,1 °C	420	8 – 10	red	ALL8.1	1 unit(s)	218,25	<b>174,55</b>
0 to +100	0,1 °C	550	8 – 10	red	ALL9.1	1 unit(s)	280,60	<b>224,45</b>



NEW / +

**-20%**

## Data logger EBI 20 series

ebro.

Easy to use. With factory calibration certificate (test points: -20 and 0 °C).

Applications: temperature mapping, transport monitoring, storage monitoring, process monitoring.

- With alarm management (visual when limit value is breached)
- DIN EN 12830 and HACCP compliant
- Windows-compatible software: logger programming, data readout, graphical and tabular display, protocol printout, data export to Microsoft® Excel and PDF. FDA 21 CFR Part 11 functionality available as an option. Free to download
- Interface and USB cable required for communication between the logger and software; if not included in the scope of delivery, please order separately

### EBI 20-T1

**Delivery incl.** calibration certificate and battery.

Without software, interface and USB cable, please order separately.

Pic.	Version	Art. No.	Pack Qty.	€	€
(1)	with internal temperature gauge	289T.1	1 unit(s)	80,65	64,50

### EBI 20-T1 Set

**Delivery incl.** calibration certificate, software, interface, USB cable and battery.

Pic.	Version	Art. No.	Pack Qty.	€	€
(1)	with internal temperature gauge	289X.1	1 unit(s)	264,25	163,40

### EBI 20-TE1

**Delivery incl.** calibration certificate and battery.

Without software, interface and USB cable, please order separately.

Pic.	Version	Art. No.	Pack Qty.	€	€
(2)	with external temperature gauge	289L.1	1 unit(s)	150,50	120,40

### EBI 20-TH1

**Delivery incl.** calibration certificate and battery.

Without software, interface and USB cable, please order separately.

Pic.	Version	Art. No.	Pack Qty.	€	€
(3)	with internal humidity/temperature gauge	289N.1	1 unit(s)	123,65	98,90

### EBI 20-TH1 Set

**Delivery incl.** calibration certificate, software, interface, USB cable and battery.

Pic.	Version	Art. No.	Pack Qty.	€	€
(3)	with internal humidity/temperature gauge	289P.1	1 unit(s)	247,25	197,80

### Technical specifications:

Art. No.	289T.1	289X.1	289L.1	289N.1	289P.1
Type	EBI 20-T1	EBI 20-T1 Set	EBI 20-TE1	EBI 20-TH1	EBI 20-TH1 Set
Version	with internal temperature gauge		with external temperature gauge	with internal humidity/temperature gauge	
Parameters	temperature			temperature, humidity	
Temperature measuring range	-30 to +70 °C				
Temperature resolution	0.1 °C				
Temperature accuracy	±0.5 °C (-20 to +40 °C), ±0.8 °C (outside)				
Rel. humidity measuring range				10 to 90 %	
Rel. humidity resolution				0,1 %	
Rel. humidity accuracy				±3% (10 to 90%)	
Sensor type	NTC				
Display	yes				
Data memory	40,000 measured values				
Measuring cycle	1 min to 24 h				
Port	USB				
IP rating	67			52	
Min./max. function	yes				
L x W x H	69 x 48 x 22 mm				
Sensor: Ø x L				3 x 55 mm	
Weight	45 g				
Power supply	1x CR 2450 (3 V) button cell				

**-20%**

### Accessories for EBI 20 series

ebro.

#### USB interface

For programming and readouts on the EBI 20 series data loggers.

**Delivery incl.** software and USB cable.

Designation	Art. No.	Pack Qty.	€	€
USB interface	28C1.1	1 unit(s)	129,00	103,20



**-30%**

### LED lighting plate slimlite plano

ROTH SELECTION.

With 8 mm high, very flat lighting plates. For an even and true-colour illumination when viewing transparent images. LED lighting in daylight quality, dimmable. Charge time battery: five hours.

- Touch-sensitive switch for On/Off and brightness control
- Selectable mains or battery operation
- Different units beside the illuminated area (cm and inch)

#### Technical specifications:

Art. No.	HNK0.1	HNK1.1	HNK2.1
Type	S	M	L
L x W x H	290 x 200 x 8 mm	390 x 270 x 8 mm	499 x 350 x 8 mm
Illuminated area	220 x 160 mm	320 x 228 mm	429 x 309 mm
Colour temperature	5000 K		
Light density	750 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>	650 cd/m <sup>2</sup>
Colour rendering index	95 CRI		
Performance	3,6 W	4,1 W	6,6 W
Service life	5 hours	3.5 hours	1.5 hours
Weight	570 g	1010 g	1690 g
Mains connection	100–240 V, 50/60 Hz		

**Delivery incl.** power supply unit, USB cable (length 2 m), lithium-ion battery.

Type	L x W x H (mm)	Art. No.	Pack Qty.	€	€
S	290 x 200 x 8	<b>HNK0.1</b>	1 unit(s)	<del>142,30</del>	<b>99,60</b>
M	390 x 270 x 8	<b>HNK1.1</b>	1 unit(s)	<del>230,05</del>	<b>161,00</b>
L	499 x 350 x 8	<b>HNK2.1</b>	1 unit(s)	<del>288,10</del>	<b>201,65</b>



### Work light MAULwork

MAUL.

Powerful lights with high luminosity. Ideal for laboratories, workshops and engineering offices.

- Infinitely dimmable
- With segmented lighting (42 LEDs at the front, 42 LEDs at the rear or all 84 LEDs)
- Colour temperature: daylight white
- Freely adjustable lamp head
- Button on the lamp head makes it easy to switch on and off
- Robust metal arm, rotatable through 360°
- Arm length: bottom 390 mm, top 440 mm
- Height in normal working position 500 mm
- Clamp base for clamping widths of up to 63 mm

#### Technical specifications:

Art. No.	KLT8.1
Type	MAULwork
Colour	white
Version	with clamp base
Light source	LED
Performance	21 W
Service life	20,000 hours
Energy efficiency class	F
Luminosity	3,120 lx
Luminous flux	1,180 lm
Colour temperature	6500 K
Arm length	830 mm
Cable length	1.50 m
Mains connection	230 V, 50 Hz

**Delivery incl.** bulb.

Colour	Performance (W)	Art. No.	Pack Qty.	€	€
white	21	<b>KLT8.1</b>	1 unit(s)	<del>277,95</del>	<b>194,15</b>





### Precision tweezers set ROTILABO® stainless steel SA

ROTH SELECTION. Material: stainless steel SA (1.4435),  
case made of plastic, foam insert.  
Tweezers autoclavable, case not autoclavable.

Not a medical device / Not an IVD product

Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
185	105	12	1P3T.1	1 set	134,30	100,65

#### Contents:

- 1 pair of tweezers, straight, type 1  
Length 120 mm, thickness of tip 0.10 mm
- 1 pair of tweezers, straight, type 2A (flat tips)  
Length 120 mm, tip thickness 0.1 mm, tip width 1.90 mm
- 1 pair of tweezers, straight, type 3C  
Length 110 mm, thickness of tip 0.12 mm
- 1 pair of tweezers, straight, type 5  
Length 110 mm, thickness of tip 0.07 mm
- 1 pair of tweezers, bent, type 7  
Length 118 mm, thickness of tip 0.09 mm



**Inverse fluorescence microscope OCM series**

KERN.

Lab Line. Due to the inverse design and the very large working distance, specimens in culture vessels like dishes, bottles and microtiter plates can be viewed. Thanks to the 20x phase contrast lens in particular, primarily translucent and thin, low-contrast specimens can be examined. The installed lenses are specially coated, and therefore ideally suited to fluorescence microscopy analyses.

- The powerful and dimmable **5 W LED transmitted light illumination** and the **5 W EPI fluorescence toplight unit** guarantee perfect illumination and excitation of fluorescence specimens
- A special Abbe N.A. 0.3 condenser with an aperture cover and a large working distance guarantees optimal working in bright-field, phase contrast and fluorescence applications
- The **infinitely corrected optics** ensure top-class image quality
- The five-slot lens revolver is equipped with **three high-quality, infinitely corrected PLAN lenses (10x/20x/40x) and one PLAN lens (20x)**, all with maximum edge definition for the best possible image quality
- **Enables quicker and more effective switching between the bright-field and phase contrast method** via a phase contrast slider
- The mechanical cross table ensures fast working and positioning of the specimen. It features a coaxial coarse and fine focus drive fitted on both sides for adjusting the height and focussing on the specimen
- With trinocular head for mounting a microscope camera on the phototube using C-mount adapter. Please order C-mount adapter separately.

**OCM-167 trinocular**

**Delivery incl.** B/G fluorescence excitation filter, colour filter (blue, integrated), object holder for 54 mm culture dish, eyecups and dust cover.

Type	Version	Art. No.	Pack Qty.	€	€
OCM-167	with B/G filter	<b>1T89.1</b>	1 unit(s)	9.180,00	<b>6.885,00</b>

**OCM-168 trinocular**

**Delivery incl.** B/G/V/UV fluorescence excitation filter, colour filter (blue, integrated), object holder for 54 mm culture dish, eyecups and dust cover.

Type	Version	Art. No.	Pack Qty.	€	€
OCM-168	with B/G/V/UV filter	<b>1T8A.1</b>	1 unit(s)	10.790,00	<b>8.092,00</b>

**Technical specifications:**

Art. No.	1T89.1	1T8A.1
Type	OCM-167	OCM-168
Version	with B/G filter	with B/G/V/UV filter
Tube	trinocular	
Magnification type	turret	
Ocular magnification	super wide angle (HWF) 10x	
Lenses	planachromatic fluorine	
Lens arrangement	5x	
Lens magnification	Bright-field: - 10x/N.A. 0.25, W.D. 10.3 mm - 20x/N.A. 0.40, W.D. 5.8 mm - 40x/N.A. 0.60, W.D. 5.1 mm Phase contrast: - Ph 20x/N.A. 0.45, W.D. 5.8 mm	
Field of view	22 mm	
Dioptre compensation	±5 dpt at both ocular tubes	
Angular observation	45 °	
Head	fixed	
Distance between eyepieces	48–76 mm	
Working distance	72 mm	
Condenser	Abbe N.A. 0.3 with aperture cover	
Light source	LED	
Type of lighting	incident light (fluorescence) and transmitted light	
Image focusing	coaxial coarse and fine focus with scale: 2 µm	
Optics	infinite	
Microscope stage	area 210 x 241 mm coaxial x/y travel range 128 x 80 mm holder for culture dish Ø 110 mm	
Power supply	mains-powered	



**Bellows**

ROTH SELECTION. Material: silicone.

For non-contact removal of dust and loose dirt particles on sensitive surfaces. For cameras, lenses, filters, binoculars, films and other optical, precision and electronic components.

- Strong blowing action
- Swivelling, robust air nozzle with soft, surface-protecting tip
- Rear air inlet valve
- Elastic, abrasion-resistant silicone bellows
- Large footprint with suction foot

Ø x L (mm)	Art. No.	Pack Qty.	€	€
64 x 182	<b>20L9.1</b>	1 unit(s)	18,05	<b>14,40</b>



### Transmitted light microscope OBN series

KERN.

Professional line. Professional, fully equipped transmitted light microscope (bright-field) with ergonomic design and unparalleled quality. For translucent, low-contrast, challenging specimens (e.g. living mammalian cells, bacteria, tissues).

- The **professional Köhler illumination** with adjustable field diaphragm and centerable and height-adjustable 1.25 Abbe condenser with adjustable aperture cover enables perfect illumination of the specimen, with no negative flare effects
- The **infinity corrected optics** ensure top-class image quality
- The 5-slot lens revolver is fully equipped with five **high-quality, infinitely corrected PLAN lenses (4x/10x/20x/40x/100x)** with maximum edge definition
- The mechanical cross table ensures fast working and positioning of the specimen. It features a coaxial coarse and fine focus drive fitted on both sides for adjusting the height and focussing on the specimen
- With strong, infinitely dimmable 3 W LED transmitted light illumination

#### Optional accessories (please order separately):

- 60x infinity lens (planachromatic, spring)
- 100x infinity lens (planachromatic, spring) with water immersion
- Darkfield condenser to increase contrast of small, unstained structures
- Polarisation unit for imaging polarised light

#### Technical specifications:

Art. No.	1LLH.1	1LLK.1	1LLL.1
Type	OBN 135	OBN 135C825	OBN 135T241
Version	basic	with ODC 825 camera	with ODC 241 tablet
Tube	trinocular		
Total magnification	40x, 100x, 200x, 400x, 1000x		
Magnification type	turret		
Ocular magnification	super wide angle (HWF) 10x		
Lenses	planachromatic		
Lens arrangement	5-way, tilted backwards		
Lens magnification	- 4x / N.A. 0.10, W.D. 12.1 mm		
	- 10x / N.A. 0.25, W.D. 4.64 mm		
	- 20x (spring) / N.A. 0.40, W.D. 2.41 mm		
	- 40x (spring) / N.A. 0.66, W.D. 0.65 mm		
	- 100x (spring, oil) / N.A. 1.25, W.D. 0.19 mm		
Field of view	20 mm		
Dioptr. compensation	on both sides		
Angular observation	30°		
Head	can be rotated 360°		
Distance between eyepieces	50–75 mm		
Condenser	Abbe N.A. 1.25 centerable with aperture cover		
Köhler illumination	yes		
Light source	LED		
Type of lighting	transmitted light		
Image focusing	coaxial coarse and fine focus with scale: 2 µm		
Optics	infinite		
Microscope stage	175 x 145 mm area		
	coaxial x/y travel range 78 x 55 mm container for two slides		
Power supply	mains-powered		
Mains connection	100–240 V, 50/60 Hz		

**-25%**

#### (1) OBN 135 trinocular

With trinocular head for mounting a microscope camera on the phototube using C-mount adapter. Please order C-mount adapter separately.

**Delivery incl.** colour filter (blue, integrated), eyecups and dust cover.

Type	Version	Art. No.	Pack Qty.	€	€
OBN 135	basic	1LLH.1	1 unit(s)	<del>1.610,00</del>	<b>1.207,00</b>

#### (2) OBN 135 set with camera

The adapted ODC 825 microscope camera with USB 2.0 interface enables data transfer to a PC or laptop.

The free KERN VIS software for operating systems Windows XP to Windows 10 enables the live image of the specimen to be transferred to the computer.

The software includes a wide range of functions such as image and video recording, measuring functions and simple documentation. Connecting to a computer enables images including measurements to be saved and archived directly in the user-specific directory.

**Delivery incl.** ODC 825 microscope camera, C-mount adapter, colour filter (blue, integrated), eyecups and dust cover.

Type	Version	Art. No.	Pack Qty.	€	€
OBN 135C825	with ODC 825 camera	1LLK.1	1 unit(s)	<del>2.160,00</del>	<b>1.620,00</b>

#### (3) OBN 135 set with tablet

A 2-in-1 solution for easy, convenient and direct microscopic analysis of specimens on the large 9.7" LCD touchscreen.

No PC workstation or software installation required.

Ideal for students undergoing training, or for demonstration purposes in the laboratory.

**Delivery incl.** ODC 241 tablet camera, C-mount adapter, colour filter (blue, integrated), eyecups and dust cover.

Type	Version	Art. No.	Pack Qty.	€	€
OBN 135T241	with ODC 241 tablet	1LLL.1	1 unit(s)	<del>2.870,00</del>	<b>2.152,00</b>

**NEW/+**

**Tweezers ROTILABO®  
ceramic/stainless steel**

**-20%**

ROTH SELECTION. Material: ceramic (zirconia-reinforced aluminium oxide ceramic ZTA), handle made of SA stainless steel (1.4435).

**Application examples**

For handling components in thermal and chemical processes and for soldering processes. Used when very rigid tips are required.

- Combination of high strength and high hardness
- No open porosity
- Very hard surface, good protection against abrasion and wear
- Excellent thermal properties and high temperature stability
- Extreme corrosion resistance, almost chemically inert

Not a medical device / Not an IVD product



**Straight**

Tip shape	Tip thickness (mm)	Tip width (mm)	Length (mm)	Width (mm)	Art. No.	Pack Qty.	€	€
pointed	0.25	0.3	135	9	22A9.1	1 unit(s)	52,15	41,70
blunt	0.3	2	140	9	22A6.1	1 unit(s)	52,15	41,70
pointed	0.5	1	140	9	22A7.1	1 unit(s)	52,15	41,70
pointed	0.6	0.7	137	9	22A8.1	1 unit(s)	52,15	41,70

**Curved**

Tip shape	Tip thickness (mm)	Tip width (mm)	Length (mm)	Width (mm)	Art. No.	Pack Qty.	€	€
pointed	0.45	0.7	135	11	22A0.1	1 unit(s)	52,15	41,70

**-15%**

**Spatula set**

Hammacher.

In zip-up case, spatula fastened with elastic loops.

**Contents:**

- 2 spoon spatulas, 150 and 180 mm
- 3 micro spoon spatula, spoon 5 x 7 mm, L 100, 150 and 185 mm
- 3 double spatulas, rigid, L 130, 150 and 185 mm
- 1 micro-powder spatula, flexible, 150 mm
- 1 chemist's spoon, double-ended, 170 mm
- 1 spoon for chemicals, double-ended, 150 mm
- 1 weighing spatula, 170 mm
- 2 micro-double spatulas, spoon-shaped, L 130 and 150 mm

Not a medical device / Not an IVD product



Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
215	155	25	KAT8.1	1 unit(s)	104,05	88,35



**-20 %**



**NEW/+**

**Wide-neck barrel recycled with UN approval**

CurTec. Material: rHDPE 70% (barrel), 50% (closure), EPDM seal.



For storing and transporting solids and pastes.

- With UN approval for transport (1H2W) for solids
- Not suitable for use with foodstuffs
- Airtight and waterproof, sealable and stackable
- Maximum filling temperature +80 °C
- Contents must have cooled down to +30 °C before the barrel can be closed and stacked
- Reusable

Vol. (l)	Ø ext. (mm)	Ø inner neck (mm)	Height (mm)	UN approval	Art. No.	Pack Qty.	€	€
3.6	198	136	171	1H2W/X12/S	27HK.1	1 unit(s)	33,55	26,80
6.4	198	136	263	1H2W/X20/S	27HL.1	1 unit(s)	44,10	35,25
15	274	203	417	1H2W/X22/S	27HN.1	1 unit(s)	88,70	70,95
26	316	203	425	1H2W/X33/S	27HP.1	1 unit(s)	108,70	86,90

**Containers Click Pack with UN approval**

CurTec. Material: HDPE.

Container can be nested, white, smooth inside, with handles. Dark blue screw cap with rubber seal can be easily opened and closed with a quarter turn. For storing and dispatching solids and pastes.

- cGMP certification / ISO 15378 (primary packaging of pharmaceutical products)
- With UN approval (1H2) for solids
- Compliant with food regulations
- Resistant to steam
- Stackable

**-25 %**



**Delivery without** screw cap and sealing button bordeaux red, please order separately.

Not a medical device / Not an IVD product

**UN-Y approval**

Vol. (l)	Ø ext. (mm)	Ø internal (mm)	Total height (mm)	UN approval	Art. No.	Pack Qty.	€	€
10	318	288	210	1H2/X8/Y12/Z18/S	1A62.1	1 unit(s)	12,65	9,45
15	318	288	278	1H2/X14/Y21/Z30/S	1A63.1	1 unit(s)	14,00	10,45
20	318	288	361	1H2/X17,5/Y26/Z39/S	1A64.1	1 unit(s)	18,65	13,95

**UN-X approval**

Vol. (l)	Ø ext. (mm)	Ø internal (mm)	Height (mm)	UN approval	Art. No.	Pack Qty.	€	€
15	333	295	297	1H2/X30/S	1A65.1	1 unit(s)	17,00	12,70
20	333	295	377	1H2/X30/S	1A66.1	1 unit(s)	21,55	16,10

**Accessories lids for Click Pack containers with UN approval**

CurTec. Material: HDPE, seal: TPE.

Dark blue screw cap with white inner seal. The container can be opened and closed with a quarter turn.

The lid is sealed when it passes the safety button. This is confirmed by a click.

The container can be opened again by pressing the safety button and turning the container again.

Not a medical device / Not an IVD product

**-25 %**

Suitable for	Art. No.	Pack Qty.	€	€
Click Pack container: Art. No. 1A62.1, 1A63.1, 1A64.1	1AN2.1	1 unit(s)	7,90	5,90
Click Pack container: Art. No. 1A65.1, 1A66.1	1AN3.1	1 unit(s)	11,80	8,80



**NEW/+**

**Dispenser bottle**

Semadeni. Material: PET, pump attachment made of PP.

Crystal clear bottle with pump head (stainless steel spring). For dosing small quantities of liquid, 2 ml per stroke. Riser tube of the pump attachment can be cut to the required length.

**-20 %**

Vol. (ml)	Ø (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
500	71	195	282T.1	1 unit(s)	3,75	2,95
750	73	250	282X.1	1 unit(s)	3,90	3,05





**Shelf trolley**

ROTH SELECTION. Material: stainless steel 18/10.  
 Price plus transport costs of €55.00 within Germany.  
 With welded-in shelves, load-bearing capacity per shelf 40 kg.  
 Four castors with wall deflectors, including two with wheel brakes.  
 No protruding edges or screws, thereby largely preventing accidents  
 and making it easy to clean. Anti-static tyres.

**Technical specifications:**

Art. No.	0033.1	A206.1	Y497.1
Length	895 mm		
Width	595 mm		
Height	949 mm		1,264 mm
Level distance	591 mm	278 mm	
Roller Ø	125 mm		
Load capacity	80 kg	120 kg	150 kg
Weight	15,63 kg	19,1 kg	23,62 kg

Number of bases	Platform (mm)	Art. No.	Pack Qty.	€	€
2	800 x 500	0033.1	1 unit(s)	476,25	356,90
3	800 x 500	A206.1	1 unit(s)	520,90	390,20
4	800 x 500	Y497.1	1 unit(s)	749,90	557,90



**Office chair Comfort**

ROTH SELECTION. Material: imitation leather (seat and backrest), plastic base.  
 Acc. to DIN 68877. GMP-compliant. Large, ergonomically shaped backrest and seat with integrated lumbar support, pelvic support and rounded seat front edge. Good sitting comfort thanks to soft and comfortable upholstery. Height backrest: 530 mm.  
 Seat: W 460 x D 440 mm. Base Ø: 680 mm.

- Inclination of seat and backrest is adapted to the sitting posture
- Backrest height adjustment
- Continuous seat-height adjustment by safety gas spring with protective cover
- Surface easy to clean and disinfect
- Colour: black
- GS-certified
- 10 year warranty

Delivered unassembled.

**Sustainability**

Awarded the "TÜV Rheinland certified - tested for emissions and harmful substances" test certification.

**Seat height 490–630 mm**

Load-dependent dual casters with brakes for hard floor surfaces. Won't roll away in unloaded condition.

Version	Max. load (kg)	Art. No.	Pack Qty.	€	€
Rollers	120	20AL.1	1 unit(s)	595,25	404,20

**Seat height 690–930 mm, with foot ring**

Soft seat-stop rollers for hard floors. Fixed when loaded, rollable when unloaded. Chrome-plated, height-adjustable foot ring.

Version	Max. load (kg)	Art. No.	Pack Qty.	€	€
Seat-stop rollers	120	20AN.1	1 unit(s)	585,90	468,70



### Laboratory stool Labster

bimos. Material: imitation leather (seat).

GMP-compatible and suitable for use in cleanrooms, ideal for laboratories with safety classes S1 to S3.

- High level of seating comfort through Skai artificial leather and soft upholstery
- Fully washable and can be disinfected
- Seamless design concept
- Mechanics and soft-cover lining with control panel
- Adjustable seat height with ring-release gas elevation
- Extra-large seat surface with Ø 380 mm
- Compact design, small space requirement
- Load-dependent limited dual casters for hard floor surfaces



Version	Colour	Seat height (mm)	Seat Ø (mm)	Max. load (kg)	Art. No.	Pack Qty.	€	€
Rollers	black	450 to 650	380	120	HHC5.1	1 unit(s)	326,80	261,20
Rollers	grey	450 to 650	380	120	HHC6.1	1 unit(s)	326,80	261,20
Rollers	red	450 to 650	380	120	HHC7.1	1 unit(s)	326,80	261,20
Rollers	mint green	450 to 650	380	120	HHC8.1	1 unit(s)	326,80	261,20



**A**uto-clavable **NEW / +**

### Sterilisation basket with lid attached

Hupfer. Material: stainless steel 1.4301, electrolytically polished. Autoclavable: yes.

For holding small parts and accessories. With fixed lid and secure quick-release fastener.

Medical device class I

ID: 4044593

Outer length (mm)	Outer width (mm)	Outer height (mm)	Art. No.	Pack Qty.	€	€
50	100	50	27XK.1	1 unit(s)	188,15	141,05
80	40	42	27XE.1	1 unit(s)	156,95	117,70
80	80	40	27XH.1	1 unit(s)	111,80	83,85
139	54	224	27XN.1	1 unit(s)	184,90	138,65
210	150	40	27XL.1	1 unit(s)	247,25	185,40
274	174	36	27XP.1	1 unit(s)	206,40	154,80
310	210	40	27XT.1	1 unit(s)	251,55	188,65

Made in Germany **A**uto-clavable **NEW / +**

### Sterilisation basket with drop handles

Hupfer. Material: stainless steel 1.4301, electrolytically polished. Autoclavable: yes.

For storage, transportation, cleaning and provision of labware and medical instruments. Stackable.

Easy handling thanks to two internal drop handles.

Medical device class I

ID: 4044593

Outer length (mm)	Outer width (mm)	Outer height (mm)	Art. No.	Pack Qty.	€	€
240	250	50	278H.1	1 unit(s)	86,55	64,85
240	250	70	278K.1	1 unit(s)	102,70	76,95
480	250	50	278L.1	1 unit(s)	123,65	92,70
480	250	70	278N.1	1 unit(s)	134,40	100,75
480	250	100	278P.1	1 unit(s)	188,15	141,05
510	252	50	278T.1	1 unit(s)	161,25	120,90
540	252	60	278X.1	1 unit(s)	166,65	124,95



### Dishwasher cleaner deconex® 22 LIQ-x

Borer Chemie.

**Alkaline cleaning concentrate (liquid)**, for mechanical cleaning of laboratory glassware and reusable laboratory utensils. Residue-free results and high dirt-dissolving and dispersing capacity. For universal laboratory use.

Suitable for application in **automatic dishwashers**.

**Applications:** can be used in biological, chemical and pharmaceutical laboratories as well as in the food industry. Suitable for removing stubborn organic and inorganic contaminations, dried synthesis residues, salts, greases, oils, pigments, blood, tissue residues and proteins.

#### Concentration for use:

##### Cleaning in automatic dishwashers:

Cleaning: 2–5 min/60 °C/3–5 ml/l deconex® 22 LIQ-x (demineralised water), 5–10 ml/l deconex® 22 LIQ-x (hard water)  
Neutralisation: 1–3 ml/l deconex® ORGANACID  
or 0.5–2 ml/l deconex® 26 PLUS  
Final rinse: demineralised water

##### Material compatibility:

Suitable for: borosilicate glass 3.3/DURAN®, stainless steel, ceramics, plastics.  
Not suitable for: aluminium, anodised aluminium, zinc, non-ferrous metals, rubber, latex.

- Residue-free cleaning of laboratory glassware and laboratory utensils
- High dirt-dissolving and dispersing capacity
- Wide cleaning range, removes organic and inorganic contaminations
- At the end of the mechanical cleaning process, deconex® ORGANACID is recommended as a neutralisation agent
- Phosphate-free, chlorine-free and surfactant-free

#### Technical specifications:

Art. No.	229L.1	229L.2
Intended purpose	for laboratory dishwashers	
Delivery form	concentrated liquid	
pH range	alkaline	
Ingredients	dipotassium trioxosilicate, potassium hydroxide, polycarboxylates, complexing agents	
Free from chlorine	yes	
Phosphate-free	yes	
Free from tensides	yes	
Dosing	0.3–1% in water	

**Danger H290-H314**

Not a medical device / Not an IVD product

Packaging type	Art. No.	Pack Qty.	€	€
canister	229L.1	6 kg	99,45	<b>89,45</b>
canister	229L.2	12 kg	177,40	<b>159,60</b>



### Dishwasher cleaner deconex® 25 ORGANACID

Borer Chemie.

**Acidic cleaning concentrate (liquid), pre-rinse and neutralisation agent.** For mechanical treatment of laboratory glassware and reusable laboratory utensils. Can be combined with all alkaline cleaning products in universal laboratory use.

Suitable for application in **automatic dishwashers**.

**Applications:** can be used to remove acid-soluble deposits. Following the main mechanical cleaning, deconex® 25 ORGANACID is used as an acidic neutralisation agent in the laboratory.

#### Concentration for use:

##### Cleaning in automatic dishwashers:

Neutralisation: 20–50 °C/1–3 ml/l deconex® 25 ORGANACID  
Final rinse: demineralised water

##### Material compatibility:

Suitable for: borosilicate glass 3.3/DURAN®, ceramics, plastics, rubber, latex, stainless steel, aluminium and anodised aluminium.

- Residue-free cleaning of laboratory glassware and laboratory utensils
- Outstandingly suited to effective cleaning of animal cages
- Can be used as a pre-cleaning agent to remove acid-soluble deposits
- Neutralises carried-over alkaline residues after the main cleaning cycle
- Significantly shortens the rinsing phases and reduces the consumption of rinsing water
- Neutraliser for phosphate-critical cleaning processes
- Chlorine-free, phosphate-free, surfactant-free, EDTA-free and NTA-free

#### Technical specifications:

Art. No.	22CT.1	22CT.2
Intended purpose	for laboratory dishwashers	
Delivery form	concentrated liquid	
pH range	acid	
Ingredients	citric acid	
Free from chlorine	yes	
Phosphate-free	yes	
Free from tensides	yes	
Dosing	0.1–0.3% in water	

**Warning H319-H335**

Not a medical device / Not an IVD product

Packaging type	Art. No.	Pack Qty.	€	€
canister	22CT.1	5 kg	84,70	<b>76,15</b>
canister	22CT.2	10 kg	150,50	<b>135,45</b>



## Ultrasonic cleaning unit Elmasonic Select

Elma. Material: stainless steel housing and cleaning bath.  
 Powerful, digital ultrasonic device for intensive cleaning of lab utensils and industrial components made of glass, plastic or metal. With five different ultrasonic modes for needs-based sound field distribution in the ultrasonic bath.

### Features:

- **eco mode:** gentle cleaning for quieter operation, with sweep mode performed at somewhat lower intensity
- **sweep mode:** uniform cleaning through uniform sound field distribution in the ultrasonic bath
- **pulse mode:** removal of even stubborn dirt with pulsing sound field distribution
- **dynamic mode:** combination of sweep and pulse ultrasonic modes for increasing overall cleaning performance
- **degas mode:** fast degassing of cleaning fluid and for special applications in the laboratory field

### General information for all models:

- Working frequency: 37 kHz
- Digital control panel with membrane keyboard that can be wiped off, and easy-to-read display
- Four memory spaces for cleaning programmes, can be called up by speed dial
- Auto-start function for temperature-controlled start of cleaning
- Preselection of cleaning time: cleaning duration adjustable between one minute and six hours
- Electronic temperature control in increments of 5 °C, adjustable from +25 to +80 °C (switchable to °F)
- Adjustable limit temperature from +40 to +60 °C (switchable to °F)
- Visual and audible feedbacks, e.g. at the end of cleaning or upon reaching the limit temperature
- Dry-running safety mechanism (not for Elmasonic Select 500 and 900)
- Automatic safety switch-off after eight hours

### Range of applications:

- Cleaning: removes stubborn dirt caused by resins, oils, grease, pastes for sanding and polishing, metal chips and fluxes
- Sample preparation: homogenising, dispersing, emulsifying and lysing
- For degassing liquids and HPLC solvents

**Delivery incl.** plastic cover. For Select 500 and 900 devices incl. stainless steel cover and for Select 500 SD and 900 SD devices incl. sound insulation cover. Delivery without basket, please order separately.

Not a medical device / Not an IVD product

### Technical specifications:

Art. No.	1HYC.1	1HYE.1	1HYH.1	1HYK.1	1HYL.1	1HYN.1	1HYP.1	1HYT.1	1HYX.1	1HYY.1	1K01.1	1K00.1	1K02.1
Type	Select 30	Select 40	Select 60	Select 80	Select 100	Select 120	Select 150	Select 180	Select 300	Select 500	Select 900	Select 500 SD	Select 900 SD
Vol.	1.6 l	2.9 l	4.3 l	6.8 l		10.0 l	8.7 l	14.2 l	22.0 l	40.3 l	63.7 l	40.3 l	63.7 l
Inner tub length	220 mm	215 mm	275 mm	475 mm	280 mm	300 mm	485 mm	300 mm	475 mm	500 mm	600 mm	500 mm	600 mm
Inner tub width	120 mm	115 mm	125 mm	110 mm	220 mm	215 mm	280 mm	370 mm	270 mm	330 mm	500 mm	330 mm	500 mm
Inner tub height	65 mm	115 mm				165 mm	65 mm	165 mm		235 mm	200 mm	235 mm	200 mm
Outer length	305 mm		370 mm	570 mm	380 mm		575 mm	405 mm	575 mm	770 mm	870 mm	770 mm	870 mm
Outer width	170 mm		210 mm	195 mm	300 mm		360 mm			425 mm	595 mm	510 mm	640 mm
Outer height	230 mm	280 mm	275 mm	280 mm		330 mm	230 mm	330 mm		505 mm		975 mm	1,145 mm
Operating frequency	37 kHz												
Peak ultrasonic output	480 W		600 W			800 W	1,200 W	800 W	1,200 W	1,920 W	3,840 W	1,920 W	3,840 W
Effective HF power	120 W		150 W			200 W	300 W	200 W	300 W	480 W	960 W	480 W	960 W
Heating output	200 W		400 W	600 W	400 W	800 W			1,200 W	1,600 W	2,000 W	1,600 W	2,000 W
Power consumption	320 W		550 W	750 W	550 W	1,000 W	1,100 W	1,000 W	1,500 W	2,080 W	2,960 W	2,080 W	2,960 W
Outlet valve	no		yes										
Weight	3,6 kg	3,8 kg	5,2 kg	6,9 kg	6,2 kg	7,7 kg	8,8 kg	10,2 kg	12,2 kg	30,4 kg	43,4 kg	34,7 kg	49,3 kg
Mains connection	220–240 V												

Type	Vol. (l)	Outer length (mm)	Outer width (mm)	Outer height (mm)	Art. No.	Pack Qty.	€	€
Select 30	1.6	305	170	230	1HYC.1	1 unit(s)	714,90	586,20
Select 40	2.9	305	170	280	1HYE.1	1 unit(s)	1.069,65	877,05
Select 60	4.3	370	210	275	1HYH.1	1 unit(s)	1.257,75	1.030,90
Select 80	6.8	570	195	280	1HYK.1	1 unit(s)	1.462,00	1.198,60
Select 100	6.8	380	300	280	1HYL.1	1 unit(s)	1.494,25	1.223,35
Select 120	10.0	380	300	330	1HYN.1	1 unit(s)	1.924,25	1.577,00
Select 150	8.7	575	360	230	1HYP.1	1 unit(s)	2.031,75	1.665,15
Select 180	14.2	405	360	330	1HYT.1	1 unit(s)	2.107,00	1.727,50
Select 300	22.0	575	360	330	1HYX.1	1 unit(s)	2.623,00	2.150,00
Select 500	40.3	770	425	505	1HYY.1	1 unit(s)	3.461,50	2.838,00
Select 500 SD	40.3	770	510	975	1K00.1	1 unit(s)	3.848,50	3.155,10
Select 900	63.7	870	595	505	1K01.1	1 unit(s)	5.310,50	4.353,75
Select 900 SD	63.7	870	640	1,145	1K02.1	1 unit(s)	5.826,50	4.777,30

Made in Germany



**-18%**



**-15%**



**Auto-clavable**

Bitte beachten: Abweichende Konditionen / Please note: Different conditions

**Laboratory organization system SmartRack®**

Better Basics Laborbedarf. Material: aluminium powder-coated, aluminium anodized slotted rails, plastic (polyamide 12). Autoclavable: yes.

Modular organization system for any laboratory accessories and laboratory glassware. The wide array of different modules of the organization system can be set up in **any arrangement, combined** and used flexibly. Can adapt whenever and however the user requires. Stable and robust metal frame (with feet) for holding multiple slotted rails and the collecting tray in place.

Plastic elements are temperature resistant, can be washed with mild cleaning agents or alcohol-based disinfectants. These are also resistant to chemicals and UV.

**Delivery incl.** frame, feet (1 pair), 3 slotted rails with side handles, collecting tray.



**Advantages:**

- The modular design means users can adapt the system to suit their needs
- All modules can be combined in any quantity and any position
- 10% more efficiency thanks to one-handed operation and allows for optimised work processes
- Increases safety when working thanks to tilt protection
- 80% space savings thanks to improved use of workspace at height
- Creates a neater working environment with more free workspace

Version	Width (mm)	Height (mm)	Depth (mm)	Art. No.	Pack Qty.	€	€
SmartRack®	635	615	265	1PHE.1	1 unit(s)	751,45	<b>638,55</b>

Version	Width (mm)	Height (mm)	Depth (mm)	Art. No.	Pack Qty.	€	€
SmartRack® Mini	420	380	265	1PHH.1	1 unit(s)	596,45	<b>455,80</b>







**-15%**



**For three pipettes with hooks**

Material: aluminium powder-coated, plastic (polyamide 12).  
The module makes it easy to secure up to three pipettes with hooks.  
The pipette tips are not affected and therefore not contaminated.

Delivery without pipettes.

Width (mm)	Art. No.	Pack Qty.	€	€
126	1PXT.1	1 unit(s)	75,25	63,95

**-15%**



**For spray bottles**

Material: aluminium powder-coated, plastic (polyamide 12).  
The module enables spray bottles to be easily attached.  
It can also be used to store screw cap bottles of similar sizes.

Delivery without spray bottle.

Width (mm)	Art. No.	Pack Qty.	€	€
105	1PXX.1	1 unit(s)	64,50	54,80

**-15%**



**For glove/tissue boxes**

Material: aluminium powder-coated, plastic (polyamide 12).  
The module allows glove or tissue boxes to be easily attached.  
The width of the holder can be adjusted as required and adapted to the size of different boxes.  
The ability to pull out the consumables from underneath means that they can still be easily removed when the box is at a low level.

Delivery without tissue box.

Width (mm)	Art. No.	Pack Qty.	€	€
163	1PXC.1	1 unit(s)	96,75	82,20

**-15%**



**Storage box for SmartRack®**

Better Basics Laborbedarf. Material: aluminium powder-coated, plastic (polyamide 12). Autoclavable: yes.  
The module is the basis for storing and holding a wide range of smaller laboratory equipment. The storage box has a maximum capacity of two or three storage box inserts, which can be arranged and combined as required. Alternatively, the storage box can also be used without storage box inserts.

Delivery without storage box inserts.

Designation	Width (mm)	Art. No.	Pack Qty.	€	€
Storage box	225	1PX6.1	1 unit(s)	86,00	73,10

**-15%**



**SmartStand for microtiter plates**

Better Basics Laborbedarf. Material: plastic (polyamide 12). Autoclavable: yes.  
The SmartStand for microtiter plates can be rotated fully 360° and therefore enables microtiter plates to be filled from each side and the orientation to be quickly adjusted. The inclination of 20° means that the microtiter plates are much more visible from the user's perspective, which assists precise and ergonomic work when pipetting.

Delivery without microtiter plate.

Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	€	€
90	133	90	1PT7.1	1 unit(s)	139,75	118,75

**-15%**



**Storage box insert for storage box**

Better Basics Laborbedarf. Material: plastic (polyamide 12). Autoclavable: yes.  
For sample vials and test tubes for storage box  
The module can be inserted as required into the storage box and enables easy storage and holding of sample vials and test tubes. It is equipped with a spring mechanism that provides a secure hold for sample vials and test tubes of different diameters.

Delivery without storage box, sample vials and test tubes.

Suitable for	Width (mm)	Art. No.	Pack Qty.	€	€
20 x Ø 3–10 mm	71	1PPN.1	1 unit(s)	64,50	54,80

Cat. III



**-25%**



**Chemical protection gloves  
AlphaTec® 02-100  
(formerly Barrier®)**

Ansell. Material: HDPE.  
Acc. to EN 420, EN ISO 374-1/type A (ABCEFGHIMS), EN ISO 374-5 (virus). AQL 0.065. Made of five-layer HPPE laminate. Anatomically fitting chemical-resistant PE gloves. For protection against a wide range of hazardous chemicals. Each glove is individually tested with compressed air. Film thickness approx. 0.062 mm. Length 380–410 mm.

Length (mm)	Size	Colour	Art. No.	Pack Qty.	€	€
380	6	white	<b>21LA.1</b>	1 pair	20,60	<b>15,40</b>
380	7	white	<b>P157.1</b>	1 pair	20,60	<b>15,40</b>
385	8	white	<b>LY64.1</b>	1 pair	20,60	<b>15,40</b>
390	9	white	<b>N964.1</b>	1 pair	20,60	<b>15,40</b>
395	10	white	<b>N965.1</b>	1 pair	20,60	<b>15,40</b>
410	11	white	<b>P158.1</b>	1 pair	20,60	<b>15,40</b>

**-25%**



Cat. III



**Disposable gloves  
ROTIPROTECT® Latex comfort**

Carl ROTH. Material: natural rubber. Non-sterile.  
Acc. to EN 420, EN ISO 374-1/type C, EN ISO 374-5 (virus), ASTM-F 1671-97. AQL 1.5.  
Acc. to 1935/2004 – suitable for contact with foodstuffs.

- Textured surface for secure grip
- Synthetic inner coating makes the gloves easy to put on
- Optimal wear comfort and optimum perspiration absorption
- Intensive washing processes ensure gloves contain low levels of protein and irritants
- Non-powdered
- Can be worn on either hand
- Rolled edge
- Colour: natural (light)
- Double wall thickness: min. 0.22 mm
- Thiuram-free
- 100 or 90 per dispenser box

Size	Length (mm)	Art. No.	Pack Qty.	€	€
S (6–7)	≥240	<b>L949.1</b>	100 unit(s)	14,60	<b>10,90</b>
M (7–8)	≥240	<b>L950.1</b>	100 unit(s)	14,60	<b>10,90</b>
L (8–9)	≥240	<b>L951.1</b>	100 unit(s)	14,60	<b>10,90</b>
XL (9–10)	≥240	<b>HE61.1</b>	90 unit(s)	14,60	<b>10,90</b>
With 10 boxes of each size					<b>9,80/box</b>

**-15%**



**Respiratory protection  
mask 4000 Plus series**

3M.  
Acc. to EN 405:2001 + A1:2009. Ready-to-use half masks, maintenance-free, comfortable and high quality. Integrated filters enable long service life. With exhalation valve, wide field of vision and special headband for optimal weight distribution. Can be combined with safety glasses and ear protection. Delivered in an airtight, resealable bag.

**FFA1P2 RD**  
Protects against organic gases and vapours (boiling point >65 °C) up to 1000 ppm and against solid and liquid particles up to 10 times the limit.

Filter type	Manufacturer no.	Art. No.	Pack Qty.	€	€
FFA1P2 RD	4251	<b>9750.1</b>	1 unit(s)	32,95	<b>28,00</b>

**FFA2P3 RD**  
Protects against organic gases and vapours (boiling point >65 °C) up to 5000 ppm and against solid and liquid particles of harmful substances up to 30 times the limit.

Filter type	Manufacturer no.	Art. No.	Pack Qty.	€	€
FFA2P3 RD	4255	<b>E347.1</b>	1 unit(s)	38,50	<b>32,65</b>

**FFABE1P3 RD**  
Protects against organic and inorganic gases and vapours, as well as SO<sub>2</sub>/HCl up to 1000 ppm and against solid and liquid particles of harmful substances up to 30 times the occupational exposure limit.

Filter type	Manufacturer no.	Art. No.	Pack Qty.	€	€
FFABE1 - P3 RD	4277	<b>C272.1</b>	1 unit(s)	42,05	<b>35,65</b>

**FFABEK1P3 RD**  
Protects against organic and inorganic gases and vapours, as well as SO<sub>2</sub>/HCl and ammonia up to 1000 ppm and against solid and liquid particles of harmful substances up to 30 times the limit.

Filter type	Manufacturer no.	Art. No.	Pack Qty.	€	€
FFABEK1 - P3	4279	<b>L162.1</b>	1 unit(s)	48,85	<b>41,40</b>



**-30%**

**Hand-held eye shower angled at 45°**

B-Safety.

DIN-DVGW tested and approved. Acc. to DIN EN 15154-2:2006 and ANSI Z358.1-2014.

**Universal use, for wall or table mounting.** With non-self-closing valve; the release lever locks by itself and the water is switched off again by simply unlocking this. Made of plastic, media-carrying parts made of brass. Silicone tube sheathed in stainless steel, length 1.5 m. Flow rate 7 l/min per shower head at a minimum operating pressure of 1 bar. Water connection 1/2" internal thread, union nut.

- With rubber sleeves that protect against injuries
- Dust cover caps that open automatically upon actuation
- Integrated flow regulator for constant water jet, even with fluctuating pressure
- Extremely wide-spraying shower heads ensure water distribution over a large area
- Large holes in the shower heads protect against calcification
- Shower heads can be easily removed for maintenance purposes
- Adhesive information label for eye shower, 150 x 150 mm

**With a spray head**

Flow rate (l/min)	Mounting	Art. No.	Pack Qty.	€	€
7	wall and table	KT01.1	1 unit(s)	302,10	211,45

**With two spray heads**

Flow rate (l/min)	Mounting	Art. No.	Pack Qty.	€	€
14	wall and table	KT02.1	1 unit(s)	335,40	234,75



**-20%**

**Eye wash bottle BARIKOS To-Go**

BartelsRieger Atemschutztechnik.

Acc. to EN 15154-4. Filled with 175 ml eye wash fluid (water with no chemical additives). When working at different workstations, this flat eye wash bottle can easily be carried in the pocket of a coat or overalls so it is always close at hand.

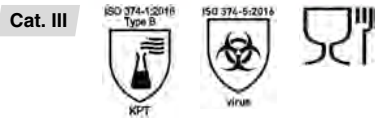
The shelf life (if unopened) is two years from the date of manufacture.

- With patented tilt valve
- Ergonomically shaped eye cup
- Can be refilled with potable water

Dimensions: H 185 x W 90 x D 37 mm

Medical device class I

W x D x H (mm)	Rinsing solution	Vol. (ml)	Art. No.	Pack Qty.	€	€
90 x 37 x 185	Water	175	K128.1	1 unit(s)	22,50	17,95



**Disposable gloves SHOWA 6110PF EBT**

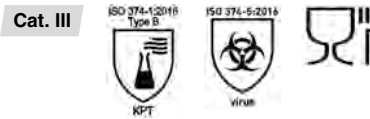
SHOWA. Material: nitrile rubber biodegradable. Non-sterile.  
 Acc. to EN 420, EN ISO 374-1:2016/type B (KPT),  
 EN ISO 374-5:2016 (virus). AQL 1.5.  
 Acc. to 1935/2004 suitable for contact with foodstuffs.

- Non-powdered
- Low-modulus formula for better fit and less fatigue
- Textured finger tips for better grip
- Free from allergenic latex proteins
- Manufactured without silicone
- Can be worn on either hand
- With rolled edge
- Colour: green
- Wall thickness approx. 0.10 mm
- 100 pieces per dispenser box

**The world's first biodegradable disposable glove made of nitrile.**  
 A specially developed formula and the innovative Eco Best Technology (EBT) have enabled the manufacture of an innovative disposable glove. EBT nitrile is only designed for biologically active (bacteria) landfills. The biological degradation only starts after disposal. All the protective properties of a nitrile disposable glove are retained during use.

**Applications:** laboratories with limited chemical exposure, pharmaceutical and food companies, light assembly work, hygiene applications, restaurants and farms.

Size	Length (mm)	Art. No.	Pack Qty.	€	€
S (6-7)	≥240	KCY9.1	100 unit(s)	21,05	15,75
M (7-8)	≥240	KEA0.1	100 unit(s)	21,05	15,75
L (8-9)	≥240	KEA1.1	100 unit(s)	21,05	15,75
XL (9-10)	≥240	KEA2.1	100 unit(s)	21,05	15,75
XXL (10-11)	≥240	KEA3.1	90 unit(s)	21,05	15,75
With 10 boxes of each size					14,20/box



**Disposable gloves SHOWA 6112PF EBT**

SHOWA. Material: nitrile rubber biodegradable. Non-sterile.  
 Acc. to EN 420, EN ISO 374-1:2016/type B (KPT),  
 EN ISO 374-5:2016 (virus). AQL 1.5.  
 Acc. to 1935/2004 – suitable for contact with foodstuffs.

- Antistatic effect: surface resistance between 10<sup>9</sup> and 10<sup>10</sup> Ω
- Low-modulus formulation to improve fit and reduce fatigue
- Wearing comfort like a second skin
- Easy to put on and take off
- Textured finger tips for better grip
- Short-term chemical-protection against a variety of hazardous substances
- 100% nitrile, free of allergenic latex proteins
- Non-powdered
- Manufactured without silicone
- Can be worn on either hand
- With rolled edge
- Colour: black
- Wall thickness approx. 0.10 mm
- 100 pieces per dispenser box

**Biodegradable:** a specially developed formula and the innovative Eco Best Technology (EBT) have enabled the manufacture of an innovative disposable glove. EBT nitrile is biodegraded at biologically active (bacteria) landfills within one to five years. The biological degradation only starts after disposal. All the protective properties of a nitrile disposable glove are retained during use.

**Applications:** laboratories, pharmaceutical and food companies, non-complex assembly work, hygiene applications, restaurants and farms.

Size	Length (mm)	Art. No.	Pack Qty.	€	€
XS	≥240	1APY.1	100 unit(s)	35,60	26,65
S	≥240	1AT0.1	100 unit(s)	35,60	26,65
M	≥240	1AT1.1	100 unit(s)	35,60	26,65
L	≥240	1AT2.1	100 unit(s)	35,60	26,65
XL	≥240	1AT3.1	100 unit(s)	35,60	26,65
XXL	≥240	1AT4.1	90 unit(s)	35,60	26,65
With 10 boxes of each size					24,00/box





### Over glasses 2800

3M.

Acc. to **EN 166 and EN 170**. Lenses made of PC with UV protection, anti-scratch coating. Dark-blue frame. Can be worn as over-goggles over most types of corrective glasses.

- 4x adjustable arm length
- Adjustable lens angle for perfect fit
- Soft tip ear pieces for wearing comfort
- Yellow lenses filter UV radiation and blue light up to 480 nm and increase contrast even in weak light conditions
- Weight 38 g

**-20 %**

Lens colour	Lens design	Manufacturer no.	Art. No.	Pack Qty.	€	€
colourless	clear, UV protection, anti-scratch	2800	<b>KA80.1</b>	1 unit(s)	14,79	<b>11,70</b>
yellow	tinted, UV protection, anti-scratch	2802	<b>AKT8.1</b>	1 unit(s)	15,25	<b>12,15</b>



### Glasses box SEKUROKA®

Carl ROTH. Material: ABS.

- Made of impact-resistant plastic (ABS) with rounded corners, blue or transparent
- For safe storage of safety glasses directly in the workplace
- Protects PPE against scratching, dust and moisture
- Can be mounted using screws or adhesive

**-25 %**

#### For 1 pair of safety glasses

Suitable for all standard safety glasses.

**Delivery incl.** fixing material for wall mounting.

Delivery excludes safety glasses and mandatory sign (art. No. NK21.1, please order separately).

Colour	W x D x H, external (mm)	Art. No.	Pack Qty.	€	€
blue	236 x 120 x 120	<b>N426.1</b>	1 unit(s)	17,75	<b>13,25</b>
colourless	236 x 120 x 120	<b>N427.1</b>	1 unit(s)	21,55	<b>16,10</b>

#### For 4 safety glasses

Suitable for standard arm glasses.

Not suitable for very curved glasses (e.g. Uvex i-vo).

Inner compartment dimensions: W 42 x D 64 x H 175 mm.

**Delivery incl.** fixing material for wall mounting

and „Wear eye protection“ mandatory sign, without safety glasses.

Colour	W x D x H, external (mm)	Art. No.	Pack Qty.	€	€
blue	236 x 125 x 225	<b>TY59.1</b>	1 unit(s)	79,40	<b>59,50</b>
colourless	236 x 125 x 225	<b>TY60.1</b>	1 unit(s)	89,20	<b>66,85</b>





NEW / +

**-20%**

**Disposable cover Foliadress Cap Comfort Universal**

Hartmann. Material: viscose.

High-quality universal beret cap with all-round elasticated band, particularly lightweight, made of breathable, skin-friendly non-woven viscose fabric. High air permeability and good heat regulation, tear-resistant workmanship with reinforced seams in particularly stressed areas.

Medical device class I

Manufacturer no.	Colour	Art. No.	Pack Qty.	€	€
9924652	green	27Y6.1	100 unit(s)	17,10	13,65
9924662	white	27Y7.1	100 unit(s)	17,10	13,65



**-20%**

**Disposable gowns made of PP**

GM Equipment.

Material: PP non-woven.

40 g/m<sup>2</sup>. With snap fasteners.

**With pockets**

Two pockets, straight cuffs.

Size	Colour	Art. No.	Pack Qty.	€	€
L	white	KE77.1	10 unit(s)	14,55	11,60
L	white	KE77.2	50 unit(s)	68,95	55,05
XL	white	KE78.1	10 unit(s)	14,55	11,60
XL	white	KE78.2	50 unit(s)	69,55	55,60
XXL	white	KE79.1	10 unit(s)	14,55	11,60
XXL	white	KE79.2	50 unit(s)	69,55	55,60



**Women's lab coat 1614**

Bierbaum-Proenen.

**-30%**

**With stand-up collar.**

Classic, professional, practical and functional.

Standard fit. Öko-Tex Standard 100.

Washable at 95 °C, suitable for industrial washing according to ISO 15797.

- Long sleeve
- Concealed stud fastenings
- One breast pocket, two side pockets
- Back with belt and slit

**100% cotton**

Very lightweight and breathable. Tissue weight: 205 g/m<sup>2</sup>. Length: 108 cm.

Women's size	Art. No.	Pack Qty.	€	€
32	1AAT.1	1 unit(s)	41,10	28,70
34	1AAX.1	1 unit(s)	41,10	28,70
36	1AAY.1	1 unit(s)	41,10	28,70
38	1AC0.1	1 unit(s)	41,10	28,70
40	1AC1.1	1 unit(s)	41,10	28,70
42	1AC2.1	1 unit(s)	41,10	28,70
44	1AC3.1	1 unit(s)	41,10	28,70
46	1AC4.1	1 unit(s)	41,10	28,70
48	1AC5.1	1 unit(s)	41,10	28,70
50	1AC6.1	1 unit(s)	41,10	28,70
52	1AC7.1	1 unit(s)	41,10	28,70
54	1AC8.1	1 unit(s)	41,10	28,70



**-20%**

Cat. I



**Disposable apron Medi-Inn® made of PE**

BodyProducts. Material: PE.

Effective hygienic protection against liquids and dirt.

Suitable for contact with foodstuffs according to 1935/2004.

- Hammered surface
- Impervious to fluids
- Excellent tear resistance
- Head strap for wearing around the neck
- Two straps for tying together

**Applications:** laboratory and research, food industry, kitchens, catering, clinics, hospitals and care environments.

Colour	Thickness (µm)	Width (cm)	Length (cm)	Art. No.	Pack Qty.	€	€
blue	18	75	125	1N3H.1	100 unit(s)	10,80	8,60
white	18	75	125	1N3K.1	100 unit(s)	9,15	7,30
blue	18	75	140	1N3L.1	50 unit(s)	7,90	5,80
white	18	75	140	1N3N.1	50 unit(s)	8,65	6,85



## Overshoe dispenser Hygomat

Franz Mensch.

- Improves hygiene and cleanliness, reduces germs and infections
- Low-noise mechanical action – no electrical power required
- With different filling capacities and fill level viewing windows
- Reliable and robust
- Easy to operate and refill
- Overshoes adapt automatically to shoes

**Applications:** for employees of and visitors to laboratories, restaurants and canteens, hospitals, dairies, showrooms, production facilities, clean rooms and protected zones.

**Note:** the overshoe dispensers can only be fitted with suitable overshoes (art. no. XA12.1 to XA16.1 and EHE6.1)!

### (1) Classic

- For product, factory and personal hygiene
- For mobile use
- Capacity: 110 overshoes

W x D x H (mm)	Art. No.	Pack Qty.	€	€
320 x 700 x 280	<b>XA09.1</b>	1 unit(s)	293,50	<b>234,75</b>

### (2) Comfort

- With greater capacity for large numbers of employees and visitors
- With handle – for even more convenient fitting
- Capacity: 220 overshoes

W x D x H (mm)	Art. No.	Pack Qty.	€	€
320 x 740 x 900	<b>XA10.1</b>	1 unit(s)	493,45	<b>394,70</b>



### (2) Clean room

- Specially designed for use in clean rooms and the pharmaceutical industry
- With handle – for even more convenient fitting
- Stainless steel rear and side panels for optimal hygiene
- Easy to clean and disinfect
- Two rollers on the back – allow fast and easy moving
- Capacity: max. 220 overshoes

W x D x H (mm)	Art. No.	Pack Qty.	€	€
320 x 740 x 900	<b>XA11.1</b>	1 unit(s)	610,60	<b>488,45</b>



### Cat. I

## Overshoes for Hygomat dispensers

Franz Mensch.

Suitable for use with Hygomat overshoe dispensers.

### (1) CPE

Material: CPE. Hard-wearing and impermeable to moisture.

Colour	Thickness (µm)	Length (cm)	Art. No.	Pack Qty.	€	€
blue	60	47	<b>XA12.1</b>	110 unit(s)	26,90	<b>18,80</b>

### (2) Non-woven PP with CPE sole

Upper made of non-woven fabric, bottom reinforced CPE sole. Robust and tear-resistant. Provides protection against liquids, breathable. Anti-slip, suitable for smooth floors.

Colour	Thickness (µm)	Length (cm)	Art. No.	Pack Qty.	€	€
white, blue	60	44	<b>XA13.1</b>	70 unit(s)	29,65	<b>20,65</b>

### (3) Non-woven PP with CPE coating

Inside made of non-woven fabric, outside with CPE coating. Anti-slip, suitable for smooth surfaces.

Colour	Length (cm)	Art. No.	Pack Qty.	€	€
white	44	<b>XA14.1</b>	80 unit(s)	29,90	<b>20,90</b>

**-30%**

### (4) Non-woven PP with slip-resistant sole

Material: PP. Hard wearing and extra slip-resistant.

Colour	Length (cm)	Art. No.	Pack Qty.	€	€
light blue	46	<b>XA15.1</b>	100 unit(s)	29,80	<b>20,80</b>

### (5) Non-woven PP with antistatic strap

Material: PP fabric (non-woven), antistatic. Dissipative due to black contact strap, which requires skin contact to earth the body.

Colour	Length (cm)	Art. No.	Pack Qty.	€	€
blue	46	<b>XA16.1</b>	100 unit(s)	93,40	<b>65,30</b>

### (6) PE-eco

Material: PE foil.

Suitable for wearing for short periods and under low stress.

Colour	Thickness (µm)	Length (cm)	Art. No.	Pack Qty.	€	€
blue	20	41	<b>EHE6.1</b>	110 unit(s)	20,10	<b>14,00</b>

**Auto**  
clavable

**Disposal bags BIOHAZARD yellow, made from PP**

Ratiolab. Material: PP. Autoclavable: yes.

Autoclavable disposable waste bags for disposing of contaminated material. In striking yellow for easy identification.

- White indication area turns dark to indicate that autoclaving has been carried out
- With BIOHAZARD symbol and safety information in German, English and French
- Marking for maximum fill, except 110 l bags
- Autoclavable at 134 °C, 20 min

The bag must not be fully closed for autoclaving.



Colour	Total volume (l)	Filling capacity (l)	W x L (mm)	Wall thickness (µm)	Art. No.	Pack Qty.	€	€
yellow	8	6	300 x 500	50	20EC.1	500 unit(s)	245,10	171,55
yellow	38	22	400 x 780	50	20EE.1	500 unit(s)	311,75	218,20
yellow	60	32	600 x 800	50	20EH.1	500 unit(s)	375,20	262,60
yellow	110	72	700 x 1100	50	20EK.1	350 unit(s)	424,65	297,20



**-30%**

**Radiation protection shield SEKUROKA® bent**

Carl ROTH. Material: PMMA, transparent.

Made of transparent acrylic glass, for working with radio isotopic solutions that emit beta-radiation, e.g. <sup>32</sup>P, <sup>14</sup>C or <sup>35</sup>S. With chamfered front section and rounded-off edges. Stability ensured by four rubber studs on the base plate. Bent from a single piece.

For protection against	W x D x H, total (mm)	Wall thickness (mm)	Art. No.	Pack Qty.	€	€
β radiation	350 x 300 x 500	10	9764.1	1 unit(s)	176,30	123,40

**ROTH-absorber safety station SEKUROKA®**

Carl ROTH. Material: steel (sheet metal), galvanised.

Wall shelf equipped with three special absorbers for acids, alkalis and solvents.

Colour: yellow-orange (RAL 2000).

Dimensions: W x D x H: 530 x 220 x 300 mm.

**Warning** H319-H335

**Delivery incl.** 5 kg PYRACIDOSORB-ROTH®, 5 kg Basosorb®, 800 g Rotisorb®, plastic bags, dustpan and hand brush.

Version	Art. No.	Pack Qty.	€	€
Safety station	1288.1	1 unit(s)	414,95	269,70

**-35%**





**Waste disposal station SEKUROKA®**

Carl ROTH. Material: HDPE (canister), PP collecting tray.

For collecting chemical waste. Different-coloured canisters for easy differentiation of waste.

The funnels have a sieve inside to catch solids and a level indicator. (Specification of dimensions with lids open.)

**1-station**

One canister (10 l) incl. filling funnel (Ø 120 mm) and collecting tray.

L x W x H (mm)	Colour	Art. No.	Pack Qty.	€	€
240 x 370 x 610	natural	5084.1	1 unit(s)	384,95	269,40
240 x 370 x 610	yellow	5087.1	1 unit(s)	378,40	264,85
240 x 370 x 610	green	5090.1	1 unit(s)	378,40	264,85
240 x 370 x 610	blue	5096.1	1 unit(s)	378,40	264,85

**4-station**

Four canisters (10 l) incl. four filling funnels (Ø 120 mm) and collecting tray.

L x W x H (mm)	Colour	Art. No.	Pack Qty.	€	€
870 x 370 x 610	assorted colours	5074.1	1 unit(s)	867,55	607,25



**Canister waste disposal station SEKUROKA®**

Carl ROTH. Material: HDPE.

With carrying handle and additional ventilation screw. Neck-Ø 42 mm.

Vol. (l)	L x W x H (mm)	Colour	Art. No.	Pack Qty.	€	€
10	280 x 180 x 325	natural	A251.1	1 unit(s)	48,05	33,55
10	280 x 180 x 325	yellow	A252.1	1 unit(s)	48,05	33,55
10	280 x 180 x 325	green	A253.1	1 unit(s)	48,05	33,55
10	280 x 180 x 325	blue	A254.1	1 unit(s)	48,05	33,55





NEW / +

### Mini centrifuge CD-1012

Phönix Instrument.

- Max. capacity: 12 x 1.5/2.0 ml reaction vials
- Digital display of speed and operating time
- Actual status display during operation
- With multi-rotor suitable for 12 x 0.5/1.5/2.0 ml reaction tubes and 4 x 8 PCR tube strips at 200 µl per strip or 44 x 0.2 ml PCR-tubes

**Delivery incl.** 12-place multi-microlitre rotor for 12 reaction vials and 4 x 8 PCR tube strips at 200 µl per strip and 12 adaptors for 0.5 and 0.2 ml reaction vials.

### Technical specifications:

<b>Art. No.</b>	<b>27T8.1</b>
Type	CD-1012
Max. capacity	12 x 1.5/2.0 ml reaction vials
Max. speed (in microlitre rotor)	10,000 rpm
Additional data	speed can be adjusted in increments of 1000 rpm
Maximum RCF	6708 x g
Minimum speed	2,000 rpm
Timer function	10 sec to 20 min, adjustable in 1 s increments
W x D x H	210 x 180 x 130 mm
Weight	1,5 kg
Mains connection	100–240 V, 50/60 Hz

Not a medical device / Not an IVD product

Type	Art. No.	Pack Qty.	€	€
CD-1012	27T8.1	1 unit(s)	310,70	<b>248,30</b>

Phone

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**CARL ROTH**®