

**Anniversary Promotion**  
valid until September 30th 2020



*Lab solutions*

**PHOENIX**

Instrument



10 years  
30  
Products

**30 Anniversary Offers**



### RSM-02HSP/HPP

- Magnetic stirrer of the latest generation
- connector for PT-1000, integrated control function
- digital adjustment with backlit Display
- RS 232 to control the stirrer and to display all parameter via Computer
- adjustable safety temperature (100-350°C)
- Indicator for hot surface, even when stirrer is shut-off
- comprehensive range of accessories
- 2 years warranty

Speed	100 - 1500rpm
Temperature range	RT+5 to 340 °C
Plate (Ø mm)	135 mm
Plate material	Stainless steel (RSM-02HSP) Stainless steel with porcellan surface (RSM-02HPP)
Max. stirr. quantity	20 liters H <sub>2</sub> O



**RSM-02HSP/HPP** ~~475,00 €~~ **415,00 €**



**RSM-10HS** ~~255,00 €~~ **215,00 €**  
**RSM-10HP** ~~265,00 €~~ **225,00 €**

### RSM-10 HS/HP

- LED-Display for accurate regulation of speed and temperature
- digital controled speed and temperature
- Indicator for hot surface, even when stirrer is shut-off
- connector for PT-1000
- integrated temperature control function
- compact construction, sealed housing (IP42)

Speed	200 - 1500rpm
Temperature range	RT+5 to 280 °C
Plate (Ø mm)	135 mm
Plate material	Stainless steel (RSM-10HS) Stainless steel with porcellan surface (RSM-10-HP)
Max. stirr. quantity	3 liters H <sub>2</sub> O

### RSM-ECO

- powerfull Magnet
- stepless speedcontrol from 300 up to 2000 rpm
- compact, sealed housing
- silent, vibration free use
- maintenance-free Motor
- includes holder for pH-elektrodes

Speed	300 - 2000rpm
Plate (Ø mm)	120 mm
Plate material	plastic
Max. stirr. quantity	1,5 liters H <sub>2</sub> O



Unit price **79,00 €**  
from 5 pieces **74,00 €**  
from 10 pieces **69,00 €**



**RSM-10A** ~~125,00 €~~ **100,00 €**

### RSM-10A

- compact construction
- sealed housing (IP42)

Speed	200 - 1500rpm
Plate (Ø mm)	135 mm
Plate material	plastic
Max. stirr. quantity	3 liters H <sub>2</sub> O

### RS-VA 10

- Touch- or continuous
- variable speed 0-2500 rpm (RS-VA 10)
- anti-slipping feet
- various top frames available for RS-VA 10
- sturdy cast housing
- 2 years warranty

Shaking movement	orbital
Orbital	4mm
Speed	0-2500
Weight	3,5 kg



RS-VA 10 ~~154,00 €~~ **129,00 €**

### RS-TR 5

- smooth movement
- rocking and rolling simultaneously
- 2 years warranty

Shaking movement	Rocking and rolling
Number of rolls	6
Speed	5-70 rpm
Length of rolls	280mm

RS-TR 5 ~~395,00 €~~ **295,00 €**

### RS-OS 5

- compact lab shaker with a max. capacity of 3 kg
- stable stand, adjustable feet
- Disk attachment included
- comprehensive range of accessories
- 2 years warranty

Shaking movement	orbital
Orbital	20mm
Load	max. 3kg
Speed	10-200rpm



Shows optional RSSE-E100

RS-OS 5 ~~465,00 €~~ **369,00 €**



RSO-20A ~~595,00 €~~ **479,00 €**

RSO-40A ~~895,00 €~~ **719,00 €**

### RSO-20/40A

- digital speed readout
- stepless speed adjustment
- sturdy construction
- very quiet operation
- safety circuit
- 2 years warranty

Model	RSO-20A	RSO-40A
max. volume	20 liters	40 liters
Speed	50-2200rpm	
max. viscosity	10.000mPas	50.000mPas
Mount	0,5 – 10mm	



## LHP2-V10/V100/V1000

- ergonomic design
- easy recalibration with included tool
- fully autoclavable
- easy volume adjustment
- smooth tip ejection
- 2 years warranty

Model	LHP2-V10	LHP2-V100	LHP2-V1000
Volume (µl)	10-100	100-1000	1000-5000
Accuracy* (+/- in %)	1,00	0,70	0,60
Precision* (< %)	0,40	0,25	0,30



**LHP2-V10 / V100 / V1000** ~~129,00 €~~ **89,00 € /unit**  
**Set (one each V10; V100; V1000)** **199,00 €**



BTG-303



BTG-2002/6001

## BTG-303/2002/6001

- large, bright display
- intuitive and easy operation, large weighing pan
- Model BTG-303 with protection housing
- Calibration weight included
- various application programs
- RS-232 interface
- 3 years warranty

Model	BTG-303	BTG-2002	BTG-6001
Capacity	300 g	2000 g	6000 g
Accuracy	0,001 g	0,01 g	0,1 g
Pan size	118 mm Ø	188 x 148 mm	
Measuring time	2-3 sec	2 sec	

**BTG-303** ~~382,00 €~~ **349,00 €**  
**BTG-2002** ~~315,00 €~~ **289,00 €**  
**BTG-6001** ~~275,00 €~~ **249,00 €**

## CA-802/4001

- calibration per push on the CAL-button with an external calibration weight
- elegante and solid ABS-housing
- stainless steel pan
- effective overload protection
- various application programs, such as counting, weighing in different units
- balances are equipped with level indicator and adjustable feet
- 2 years warranty

Model	CA-802	CA-4001
Capacity	800 g	4000 g
Accuracy	0,01 g	0,1 g
Pan size	120 mm Ø	140 mm Ø
Measuring time	2-3 sec	2-3 sec



CA-802

**CA-802** ~~355,00 €~~ **249,00 €**  
**CA-4001** ~~315,00 €~~ **239,00 €**







## Clinical Centrifuge CD-0412

- Diagnostic program for monitoring all functions
- large illuminated LCD display
- Display for rotation or RCF and time
- simple, intuitive operation
- Timer function from 0,5 - 99 minutes
- Timer starts after reaching the selected speed
- Impulse key for centrifugation in very short sequences
- acoustic alert
- including rotor and accessories
- 2 years warranty

Speed (rpm)	300 – 4500
max. RCF (g)	2490
Noise (dB)	< 56
Dimension (cm)	30 x 35 x 20
Max. Capacity (ml)	6 x 15, 12 x 10, 7,5



**CD-0412** ~~695,00 €~~  
**595,00 €**



**CD-0412-50** ~~895,00 €~~  
**749,00 €**

## Small Bench Centrifuge CD-0412-50

- Fixed angle rotor (54°) for 6 x 50 ml plastic tubes or 6 x 15 ml plastic tubes
- Diagnostic program for monitoring all functions
- large illuminated LCD display
- Display for rotation or RCF and time
- simple, intuitive operation
- Timer function from 0.5 - 99 minutes
- Timer starts after reaching the selected speed
- Impulse key for centrifugation in very short sequences
- acoustic alert
- 2 years warranty

Speed (rpm)	300 – 4000
max. RCF (g)	1800
Noise (dB)	< 54
Dimension (cm)	30 x 35 x 20
Max. Capacity (ml)	6 x 15 ml or 6 x 50 ml plastic tubes

## Mini-Centrifuge CD-1008 G (green), CD-1008 B (blue)

- maximum speed of 7000 rpm
- Rotors CD 08-2 and CD 02-PCR 8 included
- double cover lock
- very quiet operation (<45 dB)
- easy change of the rotor
- Starting and stopping by opening and closing the lid
- 2 years warranty

Speed (rpm)	7000
max. RCF (g)	2680
Noise (dB)	< 45
Dimension (cm)	15 x 15 x 12
Max. Capacity (ml)	8 x 2ml; 2 x 8 x 0,2 ml PCR

~~195,00 €~~  
Unit price **139,00 €**  
from 3 pieces **129,00 €**  
from 6 pieces **119,00 €**





## WB-12

The waterbaths WB series, thanks to the maximum operating temperature of 99 °C, meet the different needs of operators and therefore allow them to be used in numerous applications. All water baths are equipped with a water drain.

Volumen	12 Liters
Max. Temperatur/Resolution	99 / 0,1 °C
Temperatur homogeneity at 37 °C	±0,5 °C
Temperature variation at 37 °C	±0,1 °C
Overheating protection	yes
Bottom plate dimension (WxD)	390 x 220 mm
Min. height with closed lid	150 mm
Voltage/Power	230 V / 900 W
Ext. Dimension (WxHxD)	480 x 375 x 310
Weight (kg)	12 kg
Safety class	2



**WB-12** ~~495,00 €~~  
**419,00 €**



## Natural convection oven TIN-TN 30

- 7 programs x 10 steps
- Repeatable working cycles
- Wide backlit LCD display
- Easy to read icons
- Timer and continuous function
- Visual and sound alarm
- Fan speed control
- Program start delay
- Safety temperature for sample protection

**TIN-TN 30** ~~905,00 €~~  
**815,00 €**

Volume	30 Liters
Max. Temperatur/Resolution	+200/0,1 °C
Temperatur homogeneity at 150 °C	±3,5 °C
Temperature variation at 150 °C	±0,5 °C
Heating time at 150 °C (min)	14
Int. Dimension (WxHxD) in mm	320 x 320 x 285
No. of shelves (standard/max)	2/4
Min. distance between shelves	50mm
Max. loads of shelves (kg)	10
Voltage/Power	230 V / 700 W
Ext. dimension (WxHxD) in mm	460 x 685 x 530
Weight (kg)	40
Safety class	3.1

## Incubators

- 7 programs x 10 steps
- Repeatable working cycles
- Wide backlit LCD display
- Easy to read icons
- Timer and continuous function

- Visual and sound alarm
- Fan speed control
- Program start delay
- Safety temperature for sample protection

	TIN-IN-16	TIN-IN-35
Volume (l)	16	
Max. Temperatur/Resolution	+70/0,1 °C	
Temperatur homogeneity at 37 °C	±0,4 °C	
Temperature variation at 37 °C	±0,3 °C	
Heating time at 37 °C (min)	18	22
Int. dimension (WxHxD) in mm	270 x 230 x 255	360 x 300 x 320
No. of shelves (standard/max)	2/6	
Min. distance between shelves (mm)	25	30
Max. loads of shelves (kg)	5	7,5
Voltage/Power	230 V / 85 W	230 V / 128 W
Ext. dimension (WxHxD) in mm	505 x 370 x 400	595 x 440 x 460
Weight (kg)	23	33
Safety class	2	



**TIN-IN16** ~~730,00 €~~  
**659,00 €**



**TIN-IN35** ~~755,00 €~~  
**689,00 €**





### EC-31 pH

- new high resolution display
- simultaneous display of pH/mV- and temperature
- resolution: 0,01 pH
- automatic calibration up to 3 point, automatic recognized of USA buffers
- DHS-funktion, automatic recognition of DHS and analog electrodes
- IP-54 rated housing handles splashes

### EC-31-pH-1

~~360,00 €~~

**329,00 €**

Kit including pH Elektrode 201T, holder and accessories



New Products



### EC-21-pH-1

~~345,00 €~~

**309,00 €**

Kit in case including pH Elektrode 201T and accessories

### EC-21 pH

- new high resolution display
- simultaneous display of pH/mV- and temperature
- resolution: 0,1 / 0,01 pH
- automatic calibration up to 3 point automatic recognized of USA buffers
- DHS-funktion, automatic recognition of DHS and analog electrodes
- Carrying case
- IP 57 rated

Model	EC-21 pH	EC-31 pH
Measuring range (pH)	0 ... 14	-2 ... 16
Resolution (pH)	0,1, 0,01 / $\pm 0,02$	
Resolution (mV)	-1000 ... +1000	-1000 ... +1900
Buffer	1...3, USA, NIST, User	

### Buffer solution



Buffer solution

800033	Buffer pH 4, $\pm 0,01$ / 25°C, 250 ml bottle, red	8,00 €
800133	Buffer pH 4, $\pm 0,01$ / 25°C, 500 ml bottle, red	11,00 €
800233	Buffer pH 4, $\pm 0,01$ / 25°C, 5 liters red	56,00 €
800043	Buffer pH 7, $\pm 0,01$ / 25°C, 250 ml bottle, green	8,00 €
800143	Buffer pH7, $\pm 0,01$ / 25°C, 500 ml bottle, green	11,00 €
800243	Buffer pH 7, $\pm 0,01$ / 25°C, 5 liters green	56,00 €
800073	Buffer pH 9,21, $\pm 0,02$ / 25°C, 250 ml bottle, blue	8,00 €
800173	Buffer pH 9,21, $\pm 0,02$ / 25°C, 500 ml bottle, blue	11,00 €
800273	Buffer pH 9,21, $\pm 0,02$ / 25°C, 5 Liters blue	56,00 €
800063	Buffer pH 10, $\pm 0,02$ / 25°C, 250 ml bottle, clear	8,00 €
800163	Buffer pH 10, $\pm 0,02$ / 25°C, 500 ml bottle, clear	11,00 €
800263	Buffer pH 10, $\pm 0,02$ / 25°C, 5 liters clear	56,00 €





DAKKS certified buffer solutions are available as well

### Conductivity standard solutions

800613	Conductivity Standard 84 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle	15,00 €
800633	Conductivity Standard 1.413 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle	15,00 €
800643	Conductivity Standard 12.880 $\mu\text{S}/\text{cm} \pm 1\%$ / 25°C, 500 ml bottle	15,00 €
850513	Conductivity Standard 5 $\mu\text{S}/\text{cm} \pm 0,1$ / 25°C, 300 ml bottle N.I.S.T certified	61,00 €
850313	Conductivity Standard 5 $\mu\text{S}/\text{cm} \pm 0,1$ / 25°C, 300 ml bottle DFM certified	88,00 €
850303	Conductivity Standard 1,3 $\mu\text{S}/\text{cm} \pm 0,1$ / 25°C, 300 ml bottle DFM certified	120,00 €

### Redox-Buffer

800303	250 ml Redox/ORP 200 mV $\pm 5\text{mV}$ / 25°C	18,00 €
800313	250 ml Redox/ORP 475 mV $\pm 5\text{mV}$ / 25°C	18,00 €
800323	500 ml Redox/ORP 475 mV $\pm 5\text{mV}$ / 25°C	25,00 €



Conductivity Standard

### Aux. Accessories

1001733	Cable S7 / BNC 1 meter	39,00 €
1001743	Cable S7 / DIN 1 meter	46,00 €
1002012	Temperature sensor NT55	79,00 €
1000112	Elektrode holder	83,00 €
1008013	3M KCl-solution, 500ml	25,00 €
ECEPH42	Storage bottle with 250 ml KCl	26,00 €

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