

Шейкеры инкубационные CARL ROTH

Технические характеристики

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Incubation shakers



Small incubation shaker

Ohaus.

For cell cultures, bacteria suspensions and hybridizations.

- LED display for temperature, speed and time
- Timer with acoustic alarm
- Setpoint memory: display of last value set
- Soft start

Technical specifications:

Art. No.	HTC1.1
Type	Small incubation shaker
Movement type	Circular
Operating temperature	+5 °C above ambient temperature up to 65 °C
Set temperature from	5 °C
Set temperature up to	65 °C
Temperature constancy	± 0,5 °C (37 °C)
Resolution	1 °C
Speed range	100 to 1200 rpm
Shaking amplitude (stroke)	3 mm
Timer	1 to 9999 min or continuous operation
Shaking surface area	197 x 279 mm
W x D x H, interior	211 x 287 x 145 mm
W x D x H, external	279 x 432 x 270 mm
Weight	13,6 kg
Mains connection	230 V, 50/60 Hz

Delivery incl. universal attachment for fastening retaining clips for Erlenmeyer flasks (please order retaining clips separately).

Type	Art. No.	Pack Qty.	
Small incubation shaker	HTC1.1	1 unit(s)	

Accessories clamps for small incubation shakers

Ohaus.

Designation	Art. No.	Pack Qty.	
Clamps for flasks 25 ml (max. 20)	HTC2.1	1 unit(s)	
Clamps for flasks 50 ml (max. 15)	HTC3.1	1 unit(s)	
Clamps for flasks 125 ml (max. 8)	HTC4.1	1 unit(s)	
Clamps for flasks 250 ml (max. 5)	HTC5.1	1 unit(s)	



Incubation shaker 2D/3D

Ohaus.

For hybridization processes, cell cultures, blotting techniques and colouring/dyeing of gels.

- LED display for temperature, speed/inclination angle and time
- Timer with acoustic alarm
- Inclination angle adjusts electronically (even when device is in operation)
- Setpoint memory: display of last value set
- Soft start

Technical specifications:

Art. No.	HTC6.1	HTC7.1
Type	Thermo-Shake 2D	Thermo-Shake 3D
Movement type	Rocking motion	Wobbling motion
Operating temperature	+5 °C above ambient temperature up to 65 °C	
Set temperature from	5 °C	
Set temperature up to	65 °C	
Temperature constancy	± 0,5 °C (37 °C)	
Resolution	1 °C	
Speed range	1 to 50 rpm	1 to 30 rpm
Tilt angle	0 – 15 °	0 – 20 °
Timer	1 to 9999 min or continuous operation	
Shaking surface area	191 x 254 mm	184 x 235 mm
W x D x H, interior	197 x 273 x 97 mm	197 x 273 x 86 mm
W x D x H, external	279 x 432 x 297 mm	
Weight	10 kg	
Mains connection	230 V, 50/60 Hz	

Delivery incl. base tray with universal mat.

Type	Art. No.	Pack Qty.	
Thermo-Shake 2D	HTC6.1	1 unit(s)	
Thermo-Shake 3D	HTC7.1	1 unit(s)	

Accessories studded mat for incubation shaker 2D

Ohaus.

Studded mats for test tubes

Designation	Art. No.	Pack Qty.	
Studded mat for Thermo-Shake 2D	HTC8.1	1 unit(s)	



Incubation shakers



Incubation shaker Genie® Mini-Temp-Shaker 300

Scientific Industries.

For shaking and temperature control of samples.

- Circular movement
- Digital display of speed and temperature
- Heating mantle can be tilted back, to the left or to the right for placement or removed completely for cleaning. Also with door flap for removing and placing individual vessels.

Technical specifications:

Art. No.	1CA7.1
Type	Genie® Temp-Shaker 300
Movement type	circular
Operating temperature	5 °C above room temperature up to 75 °C
Set temperature from	28 °C
Set temperature up to	75 °C
Temperature constancy	±1 °C
Resolution	1 °C
Speed range	35 to 300 rpm
Shaking amplitude (stroke)	19 mm
Shaking surface area	315 x 315 mm
Loading capacity	3 kg
W x D x H, external	480 x 450 x 500 mm
Permissible ambient conditions	0 to 38 °C at 95 % rel. humidity
Weight	9 kg
Mains connection	230 V, 50 Hz

Delivery incl. platform with adhesive mat.

Type	Art. No.	Pack Qty.
Genie® Temp-Shaker 300	1CA7.1	1 unit(s)



Accessories universal attachment for Genie® Mini-Temp-Shaker 300

Scientific Industries.

Suitable for use with all types of vessels thanks to infinitely adjustable tension rollers and safe securement of different vessels. Loading option, e.g. 6 x 500 ml Erlenmeyer flasks with one optional tension roller available to order.

Delivery incl. 2 tension rollers. If more tension rollers are required, please order separately.

Designation	Art. No.	Pack Qty.
Universal attachment for Genie® Temp-Shaker 300	1CA8.1	1 unit(s)

Accessories tension roller for Genie® Mini-Temp-Shaker universal attachment

Scientific Industries.

Additional tension roller compatible with the Genie® Temp-Shaker 300 universal attachment.

Designation	Art. No.	Pack Qty.
Tension roller for Genie® Temp-Shaker universal attachment	1CA9.1	1 unit(s)



Incubation shaker KS 3000 i control

IKA.

For shaking, mixing and temperature control of samples.

- LED display for speed and heating setting, as well as temperature
- With RS 232 and USB interface
- Additional Pt 1000.60 temperature probe for temperature control directly within samples (included)
- Remark on outside dimensions: required floor space 600 x 600 mm

Technical specifications:

Art. No.	XT43.1
Type	KS 3000 i control
Movement type	circular
Operating temperature	+5 °C above room temperature up to +80 °C
Temperature constancy	±0,1 K
Resolution	0,1 °C
Accuracy	±0.5 K (with prober)
Speed range	10 to 500 rpm
Shaking amplitude (stroke)	20 mm
Timer	1 min to 999 h or continuous operation
W x D x H, interior	330 x 330 x 260 mm
W x D x H, external	465 x 695 x 430 mm
Heating output	1000 W
Mains connection	230 V, 50/60 Hz

Delivery without rack attachment, if desired, please order separately.

Type	Art. No.	Pack Qty.
KS 3000 i control	XT43.1	1 unit(s)

Incubation shakers



Accessories attachment system for incubation shakers KS 3000 i control

IKA.

(1) Universal attachment AS 260.1

Suitable for use with all types of vessels thanks to infinitely adjustable clamping rollers. Mounting surface 320 x 320 mm. Variable loading options, e.g. 8 x 250 ml Erlenmeyer flasks or 15 x 100 ml Erlenmeyer flasks.

Delivery incl. 4 tension rollers.

Designation	Art. No.	Pack Qty.	
Universal attachment AS 260.1	X182.1	1 unit(s)	

(2) Clamp holder AS 260.2

Suitable for shaking round-bottom flasks, volumetric flasks and Erlenmeyer flasks, etc. Dimensions W 330 x D 330 x H 24 mm. Max. number:

31 clamps for 25 ml flasks or
23 clamps for 50 ml flasks or
23 clamps for 100 ml flasks or
11 clamps for 200/250 ml flasks or
9 clamps for 500 ml flasks or
5 clamps for 1000 ml flasks

Delivery without clamps, please order separately.

Designation	Art. No.	Pack Qty.	
Clamp attachment AS 260.2	X184.1	1 unit(s)	

(3) Fixing clips

Designation	Art. No.	Pack Qty.	
Fixing clips for 25 ml flasks	X185.1	1 unit(s)	
Fixing clips for 50 ml flasks	X186.1	1 unit(s)	
Fixing clips for 100 ml flasks	X187.1	1 unit(s)	
Fixing clips for 200/250 ml flasks	X188.1	1 unit(s)	
Fixing clips for 500 ml flasks	X189.1	1 unit(s)	
Fixing clips for 1000 ml flasks	PA26.1	1 unit(s)	

(3) Dish attachment AS 260.3

For gentle movement of cell cultures or clamping rollers in Petri dishes, for example. Mounting surface: 320 x 320 mm.

Designation	Art. No.	Pack Qty.	
Dish attachment AS 260.3	X183.1	1 unit(s)	



Incubation shaker KS 4000 i control

IKA.

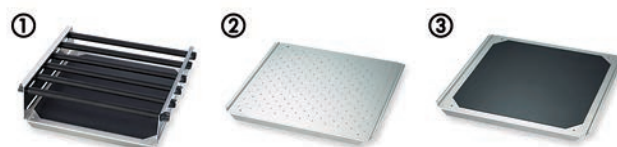
- LED display for speed and heating setting, as well as temperature
- Integrated PID temperature control
- With RS 232 interface
- Socket for use of an additional PT 1000.60 temperature probe in the working area (included)
- Remark on outside diameters: required floor space 600 x 600 mm

Technical specifications:

Art. No.	KH89.1
Type	KS 4000 i control
Movement type	circular
Operating temperature	+5 °C above room temperature up to +80 °C
Temperature constancy	±0,1 K
Resolution	0,1 °C
Accuracy	±0,5 K
Speed range	10 to 500 rpm
Shaking amplitude (stroke)	20 mm
Timer	1 min to 999 h or continuous operation
Loading capacity	20 kg
W x D x H, interior	430 x 430 x 280 mm
W x D x H, external	580 x 750 x 520 mm
Heating output	1000 W
Mains connection	230 V, 50/60 Hz

Delivery without rack attachment, if desired, please order separately.

Type	Art. No.	Pack Qty.	
KS 4000 i control	KH89.1	1 unit(s)	



Accessories top attachment system for incubation shakers KS 4000 i control

IKA.

(1) AS 4000.1 universal attachment

Attachment frame with continuously adjustable clamping rollers for universal adaptation to any vessel. Mounting surface 380 x 410 mm. Loading options: e.g. 2 x 2000 ml Erlenmeyer flasks or 9 x 500 ml Erlenmeyer flasks.

Delivery incl. 6 tension rollers.

Designation	Art. No.	Pack Qty.	
Universal attachment AS 260.1	KH90.1	1 unit(s)	



Incubation shakers

(2) Clamp holder AS 4000.2

For shaking Erlenmeyer flasks and bottles with a circular cross-section.

Max. number:

- 55 clamps for 25 ml flasks or
- 48 clamps for 50 ml flasks or
- 25 clamps for 100 ml flasks or
- 16 clamps for 250 ml flasks or
- 12 clamps for 500 ml flasks or
- 7 clamps for 1000 ml flasks

Delivery without clamps, please order separately.

Designation	Art. No.	Pack Qty.	
AS 4000.2 clamp holder	KH91.1	1 unit(s)	

(3) Dish attachment AS 4000.3

For soft shaking of cell cultures or culture medium in Petri dishes.

Mounting surface 430 x 430 mm.

Designation	Art. No.	Pack Qty.	
Dish attachment AS 260.3	KH92.1	1 unit(s)	



Incubation shaker SI-500

Stuart.

For temperature control and simultaneous shaking and mixing of samples.

- Digital LED display for speed, timer and temperature
- Smoke-coloured acrylic glazing
- With removable platform for easy removal and insertion of samples
- With timer: when the set time expires, shaking stops and the temperature is maintained
- Air circulation for smooth heating of samples
- With USB interface to record the temperature characteristics
- Loading options: e.g. 12 x 250 ml Erlenmeyer flasks or 9 x 500 ml Erlenmeyer flasks or 6 x 1000 ml Erlenmeyer flasks
- Alternatively, a maximum of 4 reaction vials and/or centrifuge tube racks can be fastened. Inclination adjustable by 30°. Reaction vial and/or centrifuge tube racks, please order separately.

Technical specifications:

Art. No.	KA99.1
Type	SI-500
Movement type	circular
Operating temperature	+5 °C above room temperature up to +60 °C
Temperature constancy	±0,5 °C
Resolution	0,1 °C
Speed range	30 to 300 rpm
Shaking amplitude (stroke)	16 mm
Timer	1 s to 9 d
Shaking surface area	335 x 335 mm
Loading capacity	10 kg
W x D x H, interior	422 x 408 x 250 mm
W x D x H, external	450 x 474 x 522 mm
Heating output	250 W
Weight	30 kg
Mains connection	230 V, 50/60 Hz

Delivery incl. platform system with 4 tension rollers and USB cable.

Type	Art. No.	Pack Qty.	
SI-500	KA99.1	1 unit(s)	



Accessories frame made of stainless steel for shaker SI-500

Stuart.

Designation	Art. No.	Pack Qty.	
for 64 x 1.5 ml reaction vials	KC00.1	1 unit(s)	
for 25 centrifuge tubes 15 ml	KC01.1	1 unit(s)	
for 12 centrifuge tubes 50 ml	KC02.1	1 unit(s)	



Incubation shaker MaxQ Digital 4000 set

Thermo.

- Digital display for speed, time and temperature on three individual displays
- Visual/audible signals alert you to temperature and speed deviation
- Automatic unbalanced load sensor stops the device if increased vibration is detected. An acoustic/visual alarm is issued at the same time.
- Soft start feature prevents sudden starts and stops
- **Clamp starter kit** comprising
1 x 250-ml-, 1 x 500-ml-, 1 x 1000-ml- and 1 x 2000-ml flask clamps

Technical specifications:

Art. No.	LY29.1
Type	MaxQ Digital 4000 set
Movement type	Circular
Operating temperature	+10 °C above room temperature up to +80 °C
Temperature constancy	±0,1 °C
Resolution	0,1 °C
Speed range	15 to 500 rpm
Shaking amplitude (stroke)	19 mm
Timer	0.1 min to 999.9 h or continuous operation
Loading capacity	22.7 kg
W x D x H, interior	533 x 508 x 330 mm
W x D x H, external	572 x 813 x 559 mm
Heating output	1000 W
Weight	75.8 kg
Mains connection	230 V, 50/60 Hz

Delivery incl. universal tray (457 x 457 mm), clamp starter kit (clamps for flasks from 125 to 2000 ml) and microtiter plate clamp.

Type	Art. No.	Pack Qty.	€
MaxQ Digital 4000 set	LY29.1	1 unit(s)	9.588,00

Incubation shakers

Accessories for MaxQ Digital 4000

Thermo.

Additional holding clamps

Designation	Art. No.	Pack Qty.	
for 10 ml flasks (max. 113)	LY31.1	1 unit(s)	
for 25 ml flasks (max. 64)	LY32.1	1 unit(s)	
for 50 ml flasks (max. 32)	LY33.1	1 unit(s)	
for 125 ml flasks (max. 32)	LY34.1	1 unit(s)	
for 250 ml flasks (max. 16)	LY35.1	1 unit(s)	
for 300 ml flasks (max. 16)	LY36.1	1 unit(s)	
for 500 ml flasks (max. 16)	LY37.1	1 unit(s)	
for 1000 ml flasks (max. 9)	LY38.1	1 unit(s)	
for 2000 ml flasks (max. 6)	LY39.1	1 unit(s)	
for microtiter/deepwell plate (max. 10)	LY30.1	1 unit(s)	

Sample tube rack

Variable inclination angle.

Dimensions Art. No. LY40.1: L 248 x W 127 x H 70 mm.

Dimensions Art. No. LY41.1: L 248 x W 110 x H 82 mm.

Designation	Art. No.	Pack Qty.	
for 72 tubes Ø from 14 to 17 mm (max. 4)	LY40.1	1 unit(s)	
for 24 tubes Ø from 26 to 30 mm (max. 4)	LY41.1	1 unit(s)	



Incubation shaker Varioshake VS 60 OI

Lauda.

For applications such as homogenisation, incubation, fermentation or chemical and biochemical reactions. With temperatures up to 70 °C and switchable circular movement.

- Digital temperature and shaking frequency setting via LED display, in increments of 0.1 °C/1 rpm
- Timer, microprocessor-controlled, with remaining time display and acoustic signal at end of process
- Limits for overheating and insufficient temperature alarm (visual and audible) adjustable
- Constant speed, load-independent
- Foldable acrylic glass cover
- Switching off the shaking motion and the heating when the doors are opened
- Integrated cooling coil for applications below room temperature

Technical specifications:

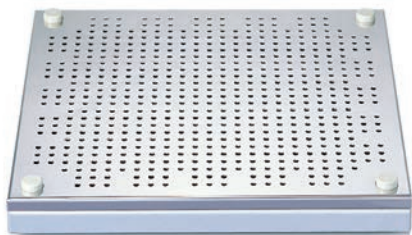
Art. No.	1EHY.1
Type	VS 60 OI
Movement type	circular
Operating temperature	8 °C above room temperature up to +70 °C
Temperature constancy	±0,2 K
Resolution	0,1 °C
Speed range	20 to 250 rpm
Shaking amplitude (stroke)	30 mm
Timer	1 min to 999 h or continuous operation
Shaking surface area	450 x 450 mm
Loading capacity	12 kg
W x D x H, interior	450 x 450 x 338 mm
W x D x H, external	559 x 687 x 628 mm
Weight	41,5 kg
Mains connection	230 V, 50/60 Hz

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

Type	Art. No.	Pack Qty.	
VS 60 OI	1EHY.1	1 unit(s)	



Incubation shakers



Accessories spring clip attachment for Varioshake VS-15 series and VS 60 OI

Lauda.

For shaking of Erlenmeyer flasks.

With hole pattern for fastening clips for Erlenmeyer flasks.

Max. number per board:

79 fixing clips for 25 ml flasks or

49 fixing clips for 50 ml flasks or

36 fixing clips for 100 ml flasks or

22 fixing clips for 200 ml flasks or

16 fixing clips for 250/300 ml flasks or

12 fixing clips for 500 ml flasks or

9 fixing clips for 1000 ml flasks or

4 fixing clips for 2000 ml flasks

Delivery without spring clips, please order separately.

Type	Art. No.	Pack Qty.	
Universal board	1CY8.1	1 unit(s)	

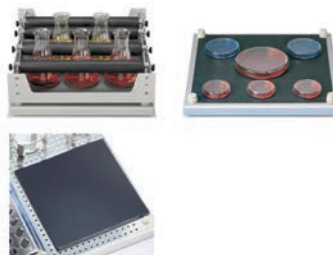


Accessories spring clip

Lauda.

For fastening Erlenmeyer flasks on the spring clip attachment and shaking tray.

Designation	Art. No.	Pack Qty.	
Clamp for 25 ml Erlenmeyer flasks	1CY9.1	1 unit(s)	
Clamp for 50 ml Erlenmeyer flasks	1CYA.1	1 unit(s)	
Clamp for 100 ml Erlenmeyer flasks	1CYC.1	1 unit(s)	
Clamp for 200 ml Erlenmeyer flasks	1CYE.1	1 unit(s)	
Clamp for 500 ml Erlenmeyer flasks	1CYK.1	1 unit(s)	
Clamp for 1000 ml Erlenmeyer flasks	1CYL.1	1 unit(s)	
Clamp for 2000 ml Erlenmeyer flasks	1CYN.1	1 unit(s)	
Clamp for 250/300 ml Erlenmeyer flasks	1CYH.1	1 unit(s)	



Accessories for Varioshake VS-8 series shakers

Lauda.

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)	



Tilt/roller mixer RS-TR series

Phönix Instrument.

Simultaneous rolling and tilting movement for thorough mixing of samples, e.g. in centrifuge tubes and sample tubes. For vessel Ø max. 100 mm.

Technical specifications:

Art. No.	XK30.1	XK31.1
Type	RS-TR 05	RS-TR 10
Number of rollers	6	
Speed range	0 to 70 rpm	10 to 70 rpm
Speed display		LCD
Timer		1 min to 1199 min or continuous operation
Timer display		LCD
Roller length	280 mm	
Roller Ø	30 mm	
W x D x H	260 x 490 x 120 mm	
Permissible ambient conditions	5 to 40 °C at 80 % rel. humidity	
Weight	5,1 kg	5,5 kg
Mains connection	100–240 V, 50/60 Hz	

Model RS-TR 05

Variable speed control from 0 to 70 rpm via analogue rotary knob with scales.

Type	Art. No.	Pack Qty.	
RS-TR 05	XK30.1	1 unit(s)	

Model RS-TR 10

Speed control from 10 to 70 rpm with illuminated LCD display for setting time and speed.

Type	Art. No.	Pack Qty.	
RS-TR 10	XK31.1	1 unit(s)	

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