

Шейкеры с аксессуарами CARL ROTH

Технические характеристики

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Shakers with accessories



CO₂-resistant orbital shaker

Thermo.

Features:

- Circular movement
- Protects specially treated mechanical components against CO₂ concentrations of up to 20 % and humidity of up to 95 %
- External control unit (corded length 2.0 m, Ø 6 mm) with LED display for speed (resolution 1 rpm) and operating time (resolution 1 min)
- Low-maintenance magnetic drive
- Minimal heat emission, does not affect the conditions inside the CO₂ incubator
- Stainless steel construction for protection against corrosive CO₂ gas
- Control device dimensions: (W x D x H): 95 x 158 x 26 mm

Technical specifications:

Art. No.	CXT3.1
Type	CO ₂ orbital shaker
Movement type	Circular
Speed range	30 to 300 rpm
Shaking amplitude (stroke)	19 mm
Timer	0 to 99 h, 59 min or continuous operation
W x D x H	360 x 300 x 96 mm
Loading capacity	6 kg
Permissible ambient conditions	4 to 60 °C at 95 % RH 0 to 20% (CO ₂ concentration)
Weight	13 kg
Mains connection	100–240 V, 50/60 Hz

Delivery incl. external control unit. Not including universal aluminium board and fixing clips, please order separately.

Type	Art. No.	Pack Qty.	
CO ₂ orbital shaker	CXT3.1	1 unit(s)	

Accessories universal aluminium board for CO₂-resistant orbital shaker

Thermo.

For shaking of Erlenmeyer flasks. With holes for individual placement of spring clips.

Delivery without clamps, please order separately.

Designation	Art. No.	Pack Qty.	
Universal aluminium board	CXT4.1	1 unit(s)	

Accessories for CO₂-resistant orbital shaker

Thermo.

Fixing clips

Designation	Art. No.	Pack Qty.	
for 50 ml flasks (max. 30)	CXT5.1	1 unit(s)	
for 100 ml flasks (max. 15)	CXT6.1	1 unit(s)	
for 150 ml flasks (max. 15)	CXT7.1	1 unit(s)	
for 200 ml flasks (max. 15)	CXT8.1	1 unit(s)	
for 250 ml flasks (max. 15)	CXT9.1	1 unit(s)	
for 500 ml flasks (max. 9)	CXX0.1	1 unit(s)	
for 1000 ml flasks (max. 6)	CXX1.1	1 unit(s)	
for 2000 ml flasks (max. 4)	CXX2.1	1 unit(s)	
for 3000 ml flasks (max. 2)	CXX3.1	1 unit(s)	
for 5000 ml flasks (max. 1)	CXX4.1	1 unit(s)	

Test tube racks for 40 tubes with Ø 16 mm (max. 2)

Variable inclination angle. Dimensions: L 285 x W 125 x H 175 mm.

Designation	Art. No.	Pack Qty.	
For 40 tubes with Ø 16 mm (max. 2)	CXX5.1	1 unit(s)	



Shakers with accessories



Shakers Genie® Multi Vortex

Scientific Industries.

Robust and reliable shaking device for mixing and shaking of samples in Erlenmeyer flasks or vials.

Properties:

- Digital display of speed and time
- Speed increase in increments of 10 rpm
- Robust metal case
- Stable at high speed thanks to adjustable feet with high vibration damping
- Loading options: E.g. max. 6 x 250 ml Erlenmeyer flasks or 2 x multi-racks, each for 12 sample tubes (max. tube Ø 10–29 mm, length min. 85 mm)
- After not being used for 10 minutes, the mixer switches to "Sleep" mode

Technical specifications:

Art. No.	LX88.1
Type	Multi Vortex-Genie®
Movement type	circular vibrating
Speed range	250 to 950 rpm
Shaking amplitude (stroke)	4 mm
Speed display	Digital
Timer	1 to 99 min or continuous operation
Shaking surface area	238 x 264 mm
W x D x H	310 x 270 x 195 mm
Loading capacity	4 kg
Permissible ambient conditions	0 to +38 °C at 90 % RH
Weight	11.3 kg
Mains connection	230 V, 50 Hz

Delivery incl. platform with clamp/tension rollers (for securely attaching upright vessels) and 2 multi-racks.

Type	Art. No.	Pack Qty.	
Multi Vortex-Genie®	LX88.1	1 unit(s)	



Shakers Varioshake VS-8 series

Lauda.

Properties:

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

Technical specifications:

Art. No.	1CXY.1	1CXT.1	1CY0.1	1CXX.1
Type	VS 8 O	VS 8 OE	VS 8 B	VS 8 BE
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	Analogue	Digital	Analogue
Timer	1 min to 99:59 h or continuous operation	Up to 60 min or continuous operation	1 min to 99:59 h or continuous operation	Up to 60 min or continuous operation
Shaking surface area	330 x 330 mm			
W x D x H	350 x 355 x 160 mm	350 x 375 x 160 mm	350 x 355 x 160 mm	350 x 375 x 160 mm
Loading capacity	8 kg			
Permissible ambient conditions	10 to 60 °C at 70 % RH	10 to 50 °C at 70 % RH	10 to 60 °C at 70 % RH	10 to 50 °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).

Analogue control

- Analogue rotary controls for setting speed and operating time
- Electronic speed control with operation by rotary knobs

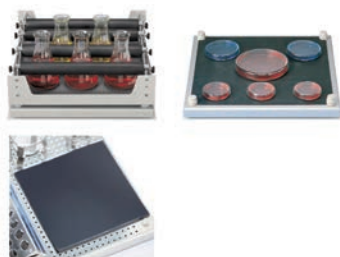
Type	Art. No.	Pack Qty.	
VS 8 OE	1CXT.1	1 unit(s)	
VS 8 BE	1CXX.1	1 unit(s)	

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	1CXY.1	1 unit(s)	
VS 8 B	1CY0.1	1 unit(s)	

Shakers with accessories



Accessories for Varioshake VS-8 series shakers

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)	

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)	

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)	



Shakers Varioshake VS-15 series

Lauda.

- 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
- Max. shaking weight 15 kg
- Operation via timer or continuous operation
- Storage of last operating parameters
- Constant speed, load-independent

Technical specifications:

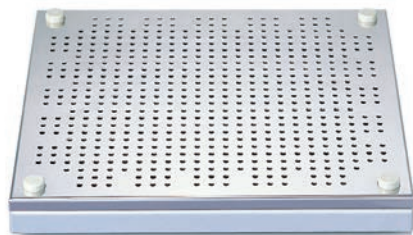
Art. No.	1CY7.1	1CY6.1
Type	VS 15 B	VS 15 O
Movement type	Back and forward	Circular
Speed range	20 to 300 rpm	
Shaking amplitude (stroke)	30 mm	
Speed display	Digital	
Timer	1 min to 99:59 h or continuous operation	
Shaking surface area	450 x 450 mm	
W x D x H	480 x 487 x 160 mm	
Loading capacity	15 kg	
Permissible ambient conditions	10 to 50 °C at 70 % RH	
Weight	19,5 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 15 O	1CY6.1	1 unit(s)	
VS 15 B	1CY7.1	1 unit(s)	



Shakers with accessories



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)	148,00



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)	



Microtiter shakers Genie® Pulse

Scientific Industries.

Specially designed for small sample sizes in microtiter plates.

- Circular movement
- High speed for optimal mixing
- Digital display of speed and operating time
- Choice of standard shake mode or pulse mode
- Depending on the selected pulse and pause duration, rapid and vigorous mixing or an intermittent mixing function is available
- Pulse and pause duration (on/off) is adjustable from 0.1 s to 99 min

Technical specifications:

Art. No.	XP69.1	1A02.1
Type	Digital MicroPlate Genie® Pulse	Digital Multi-MicroPlate Genie® Pulse
Suitable for	1 microtiter plate	Four microtiter plates (eight MT plates with optional attachment)
Speed range	500 to 2850 rpm	
Speed display	Digital	
Shaking amplitude (stroke)	1 mm	
Timer	1 to 99 min or continuous operation	
Timer display	Digital	
W x D x H	165 x 165 x 165 mm	240 x 335 x 165 mm
Weight	2.75 kg	
Mains connection	230 V, 50/60 Hz	

Model: Digital MicroPlate Genie® Pulse

For strong shaking of one microtiter plate

Type	Art. No.	Pack Qty.	
Digital MicroPlate Genie® Pulse	XP69.1	1 unit(s)	

Digital Multi-MicroPlate Genie® Pulse model

For four microtiter plates.

Type	Art. No.	Pack Qty.	
Digital Multi-MicroPlate Genie® Pulse	1A02.1	1 unit(s)	

Accessories additional essay for Genie™ Multi-MicroPlate Pulse

Scientific Industries.

For 4 additional microtiter plates. As second level on the standard attachment. Only to be used in combination with the Multi-MicroPlate Genie™ Pulse.

Designation	Art. No.	Pack Qty.	
Additional attachment for Multi-MicroPlate Genie™ Pulse	EH54.1	1 unit(s)	

Shakers for microtitre plates



Magnet shaker Monoshake

Thermo.

For shaking liquids in microtiter plates.

- Space-saving external dimensions
- Circular movement
- Shaker platform self-positions to centric zero position
- Housing material: Nickel-plated aluminium/brass
- Zero position accuracy: ± 0.1 mm

Technical specifications:

Art. No.	X826.1
Type	Monoshake
Suitable for	1 microtiter plate
Speed range	100 to 2000 rpm
Shaking amplitude (stroke)	2 mm
W x D x H	146 x 103 x 47 mm
Permissible ambient conditions	+5 to +40 °C at 95 % RH
Mains connection	230 V, 50 Hz

Type	Art. No.	Pack Qty.
Monoshake	X826.1	1 unit(s)



Microtiter shakers digital

Thermo.

- For strong shaking of four microtiter plates
- Digital display of speed and operating time

Technical specifications:

Art. No.	1APX.1
Type	Digital microtiter shaker
Speed range	150 to 1200 rpm
Speed display	LED
Shaking amplitude (stroke)	2.5 mm
Timer	0.1 min to 99 h, 59 min or continuous operation
Shaking surface area	235 x 275 mm
W x D x H	260 x 383 x 145 mm
Loading capacity	1 kg
Permissible ambient conditions	5 to 40 °C at 85 % RH
Weight	15 kg
Mains connection	100–240 V, 50/60 Hz

Type	Art. No.	Pack Qty.
Digital microtiter shaker	1APX.1	1 unit(s)



Microtiter shakers TiMix series

Edmund Bühler.

Options: With attachment for **8 or 16 microtiter plates**. Can be used with different attachments for various applications. Adjustable mass compensation ensures stability under different loads. Thermostatic control of the samples is possible by attaching the TH 15 incubation hood (please order separately).

Technical specifications:

Art. No.	T490.1	T491.1
Type	TiMix 5	TiMix 5 control
Suitable for	8/16 microtiter plates (please order attachments separately)	
Speed range	100 to 1400 rpm	
Shaking amplitude (stroke)	3 mm	
Timer	0 to 120 min or continuous operation	1 min to 30 h or continuous operation
Shaking surface area	400 x 300 mm	
W x D x H	460 x 470 x 188 mm	
Loading capacity	5 kg	
Weight	18 kg	

Delivery incl. basic unit without attachment, please order separately.

Model: TiMix 5

High speed for best possible mixing of small sample sizes.

Pic.	Type	Art. No.	Pack Qty.
(1)	TiMix 5	T490.1	1 unit(s)

Model: TiMix 5 control

With digital display showing target and actual speed, preset function for the most recent settings and the option to programme variable sequences (shaking frequency/duration).

Pic.	Type	Art. No.	Pack Qty.
(2)	TiMix 5 control	T491.1	1 unit(s)

Accessories and attachment systems for TiMix 5 microtiter shakers

Edmund Bühler.

(3) TiMix 5 standard attachment

For 8 microtiter plates or for Microwell-, Deepwell- and other plates in microtiterplate format.

Designation	Art. No.	Pack Qty.
TiMix 5 standard attachment	T493.1	1 unit(s)

(4) TiMix 5 expansion tray

For further 8 plates as a second level on the TiMix 5 standard attachment. Complete with attachment material.

Designation	Art. No.	Pack Qty.
TiMix 5 expansion tray	T494.1	1 unit(s)



Shakers for microtitre plates

(5) Attachment with clamping bushings for microtiter plates

For 8 standard microtiter plates.

Designation	Art. No.	Pack Qty.	
Attachment with clamping bushings	T495.1	1 unit(s)	

Attachment with large clamping bushings for two microtiter plates

Directly above one another.

Designation	Art. No.	Pack Qty.	
Attachment with large clamping bushings	T496.1	1 unit(s)	



Microtiter shakers SSM5 and SSL5

Stuart.

- A combination of high speed and low amplitude produces the vibration shaking action required to mix small quantities
- Digital display of speed and operating time
- Reaction vial holders are optionally available as accessories (please order separately). A maximum of two racks can be attached to one device
- Speed can be controlled in increments of 10 rpm

Technical specifications:

Art. No.	YH91.1	YH92.1
Type	SSM5	SSL5
Suitable for	4 microtiter plates	8 Microtiter plates
Speed range	250 to 1250 rpm	
Speed display	LED	
Shaking amplitude (stroke)	1,5 mm	
Timer	1 to 9999 min or continuous operation	
Timer display	LED	
Shaking surface area	220 x 220 mm	306 x 306 mm
W x D x H	240 x 300 x 160 mm	360 x 420 x 160 mm
Loading capacity	1 kg	2 kg
Permissible ambient conditions	4 to 40 °C at 80 % RH	
Mains connection	230 V, 50 Hz	

Delivery incl. anti-slip mat.

Type	Art. No.	Pack Qty.	
SSM5	YH91.1	1 unit(s)	
SSL5	YH92.1	1 unit(s)	

Accessories holder for SSM5 and SSL5 microtiter shakers

Stuart.

Designation	Art. No.	Pack Qty.	
Holder for 50 x 1.5 ml reaction vials	YH93.1	1 unit(s)	
Holder for 50 x 0.5 ml reaction vials	YH94.1	1 unit(s)	
Holder for 50 x 0.2 ml reaction vials	YH95.1	1 unit(s)	



Incubation shaker for microlitre plates

Ohaus.

For immunoassays and hybridizations.

- For 4 standard for microlitre plates
- LED display for temperature, speed and time
- Timer with acoustic alarm
- Setpoint memory: display of set value
- Soft start
- Available with standard lid or with opaque lid for light-sensitive samples

Technical specifications:

Art. No.	HTA4.1	HTA5.1
Type	With transparent lid	With opaque lid
Operating temperature	±5 °C above room 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	
W x D x H, external	279 x 432 x 197 mm	
Weight	13,6 kg	
Mains connection	230 V, 50/60 Hz	

Type	Art. No.	Pack Qty.	
With transparent lid	HTA4.1	1 unit(s)	
With opaque lid	HTA5.1	1 unit(s)	

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