

Термошейкеры, испарители роторные CARL ROTH Thermal mixer, Matrix Orbital Delta, Matrix Orbital Delta Plus, MH, RV 3, RV 8

Технические характеристики

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Архангельск (8182)63-90-72
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Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Брянск (4832)59-03-52
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Вологда (8172)26-41-59
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Ижевск (3412)26-03-58
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Калуга (4842)92-23-67
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Киров (8332)68-02-04
Коломна (4966)23-41-49
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Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
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Набережные Челны (8552)20-53-41
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Орел (4862)44-53-42
Оренбург (3532)37-68-04
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Псков (8112)59-10-37
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Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
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Тургут (3462)77-98-35
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
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Череповец (8202)49-02-64
Чита (3022)38-34-83
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Ярославль (4852)69-52-93

Россия (495)268-04-70

Казахстан (772)734-952-31

Киргизия (996)312-96-26-47



Accessories interchangeable block for heating thermoshakers

Thermo.

For conical 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)	
24 x 1.5/2.0 ml reaction vials	ATX9.1	1 unit(s)	

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)	

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)	



Cooling and heating thermoshaker

CellMedia.

Applications: Enzyme reactions, transformations, denaturation of DNA and RNA, isolation of DNA fragments from agarose gels, proteins, protein purification and cultivation of bacteria or yeasts.

Features:

- Two-line plain text display with backlit LCD display
- Simultaneous display of setpoint and actual values
- Timer operation: 1 min to 99 h, 59 mins; adjustable in 1 min increments or continuous operation
- Short mix function
- Shaking frequency can be set in 10° increments

Technical specifications:

Art. No.	CPL7.1	CPL8.1
Type	Basic	Pro
Operating temperature	from 5 °C above room temperature up to +100 °C	from 20 °C below room temperature up to 100 °C
Temperature adjustment range	4 to +100 °C	
Accuracy	<±0,5 K	
Resolution	0,1 °C	
Average heating rate	from 20 to 100 °C in approx. 13 mins	
Medium cooling rate		from 100 to 20 °C in approx. 14 mins, from 20 to 4 °C in approx. 13 min
Timer	1 min to 99 h, 59 mins/continuous operation	
Shaking frequency	200–1500 rpm	
Shaking amplitude (stroke)	2 mm	
W x D x H	220 x 280 x 170 mm	
Weight	9 kg	
Mains connection	230 V, 50 Hz	

Delivery without interchangeable blocks, please order separately.

Model: Basic – Heating and shaking

- For rapid heating and mixing
- Memory function saves five combinations of speed and time parameters

Type	Version	Max. exchange blocks	Art. No.	Pack Qty.	
Basic	Heating	1	CPL7.1	1 unit(s)	

Model Pro – Heating, cooling and shaking

- For cooling, heating and mixing
- Five individually adjustable program segments with an option for combining segments to create a ramp or to activate each segment individually

Type	Version	Max. exchange blocks	Art. No.	Pack Qty.	
Pro	Heating and cooling	1	CPL8.1	1 unit(s)	

Thermoshakers



Accessories interchangeable block for cooling and heating thermoshakers, Basic and Pro versions

CellMedia.

For reaction vials

Delivery incl. lid.

Pic.	Suitable for	Art. No.	Pack Qty.	
(1)	96 PCR® vials 0.2 ml	CPL9.1	1 unit(s)	
(2)	54 reaction vials 0,5 ml	CPN0.1	1 unit(s)	
(3)	35 reaction vials 1,5 ml	CPN1.1	1 unit(s)	
(4)	35 reaction vials 2,0 ml	CPN2.1	1 unit(s)	
(5)	15 reaction vials 0,5/20x1,5 ml	CPN3.1	1 unit(s)	
(13)	15 x 5 ml reaction vials (max. 1200 rpm)	CPN4.1	1 unit(s)	

For sample tubes and vials

Pic.	Suitable for	Art. No.	Pack Qty.	
(6)	24 sample vials Ø 12 mm (max. 1200 rpm)	CPN5.1	1 unit(s)	
(11)	24 sample tubes Ø 14 mm (max. 1200 rpm)	CPN6.1	1 unit(s)	

For centrifuge tubes

Pic.	Suitable for	Art. No.	Pack Qty.	
(7)	12 x 15 ml centrifuge tubes (Falcon®) (max. 750 rpm)	CPN7.1	1 unit(s)	
(8)	6 x 50 ml centrifuge tubes (Falcon®) (max. 750 rpm)	CPN8.1	1 unit(s)	

Water bath block

Dimensions W 103 mm x 67 mm D x H 29 mm

Delivery incl. lid.

Pic.	Suitable for	Art. No.	Pack Qty.	
(9)	Water bath block	CPN9.1	1 unit(s)	

For microtiter plates

Delivery incl. lid.

Pic.	Suitable for	Art. No.	Pack Qty.	
(10)	Microtiter plates 96	CPP0.1	1 unit(s)	

For Deepwell plate

Delivery incl. lid.

Pic.	Suitable for	Art. No.	Pack Qty.	
(12)	96-well Deepwell plate (max. 900 rpm, up to max. 80 °C)	CPP1.1	1 unit(s)	



Cooling and heating Thermoshaker Thermal mixer

Thermo.

Applications: Genetic analysis, DNA and RNA extraction, sample preparation and many more.

Features:

- Heating/cooling and shaking can be performed independently
- LCD display shows setpoint and actual values for operating time, shaking frequency and temperature
- Digital timer function with alarm signal
- Short heating and cooling times, and shaking frequency reached quickly
- Shaking frequency can be adjusted in 10° increments

Technical specifications:

Art. No.	HEH6.1
Operating temperature	15 °C below room temperature up to +100 °C
Temperature adjustment range	4 to +100 °C
Accuracy	±0.6 K at 4 °C ±0.1 K at 37 °C ±0.3 K at 100 °C
Resolution	0,1 °C
Average heating rate	5 °C/min
Medium cooling rate	from 100 to 25 °C in approx. 15 mins (5 °C/min) from 25 to 4 °C in approx. 8 mins (1.8 °C/min)
Timer	1 min to 96 h (in 1-min increments)
Shaking frequency	250–1400 rpm
Shaking amplitude (stroke)	2 mm
W x D x H	205 x 230 x 130 mm
Weight	4 kg
Mains connection	120–240 V, 50/60 Hz

Delivery without interchangeable blocks (please order separately, see Interchangeable blocks for cooling and heating thermoshaker, thermal mixer).

Version	Max. exchange blocks	Art. No.	Pack Qty.	
Heating and cooling	1	HEH6.1	1 unit(s)	



Thermoshakers



Accessories interchangeable block for cooling and heating thermoshaker Thermal mixer

Thermo.

For reaction vials

Pic.	Suitable for	Art. No.	Pack Qty.	
(1)	24 x 1.5 ml reaction vials	HEH7.1	1 unit(s)	
	24 x 2.0 ml reaction vials	HEH8.1	1 unit(s)	
(2)	20 x 0.2 ml and 12 x 1.5 ml reaction vials	HEH9.1	1 unit(s)	
(3)	20 x 0.5 ml and 12 x 1.5 ml reaction vials	HEK0.1	1 unit(s)	

For 96-well plates

Pic.	Suitable for	Art. No.	Pack Qty.	
(4)	96-well plates or 0.2 ml tube strips for rimless plates and plates with mid-height rim and round indentations	HEK1.1	1 unit(s)	



Heating thermoshaker Matrix Orbital Delta series

IKA.

Mixes and heats reaction vials and microtiter plates with round/circular motions.

Features:

- TFT display with convenient menu layout
- Automatically performs mixing and heating tasks with five programmable ramps with five increments each consisting of temperature, speed and time
- Diecast-aluminium housing for stability
- USB and RS 232 interfaces
- Shaking frequency can be adjusted in 10° increments

Technical specifications:

Art. No.	1A32.1	1A2Y.1	1A30.1	1A31.1
Operating temperature	5 °C above room temperature up to +100 °C			
Temperature adjustment range	1 to +100 °C			
Accuracy	±0.5 K at 20–45 °C ±1.5 K >45 °C			
Resolution	1 °C			
Average heating rate	5 °C/min			
Timer	1 s to 100 h (in 1 min increments) or continuous operation			
Shaking frequency	300–2000 rpm		300–1500 rpm	
Shaking amplitude (stroke)	1,5 mm			
W x D x H	220 x 350 x 150 mm			
Weight	9,5 kg			
Mains connection	120–240 V, 50/60 Hz			

Model Delta F0.5

Delivery incl. insert for 24 x 0.5 ml reaction vials. Block cannot be changed.

Version	Max. exchange blocks	Art. No.	Pack Qty.	
Heating	1	1A2Y.1	1 unit(s)	

Model Delta F1.5

Delivery incl. insert for 24 x 1.5 ml reaction vials. Block cannot be changed.

Version	Max. exchange blocks	Art. No.	Pack Qty.	
Heating	1	1A30.1	1 unit(s)	

Model Delta F2.0

Delivery incl. insert for 24 x 2.0 ml reaction vials. Block cannot be changed.

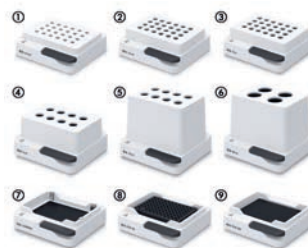
Version	Max. exchange blocks	Art. No.	Pack Qty.	
Heating	1	1A31.1	1 unit(s)	

Model Delta FP

Delivery incl. insert for microtiter plates. Block cannot be changed.

Version	Max. exchange blocks	Art. No.	Pack Qty.	
Heating	1	1A32.1	1 unit(s)	

Thermoshakers



Cooling and heating thermoshaker Matrix Orbital Delta Plus

IKA.

For cooling, heating and mixing in circular motions.

Applications: Temperature control/mixing of samples, synthesis of cDNA, enzyme-catalysed joining RNA or DNA (ligation), lysis reactions and structural changes to DNA, RNA and proteins (denaturation).

Features:

- TFT display with convenient menu structure
- Snap-lock mechanism for changing attachments and automatic attachment detection
- For mixing liquids at up to 3000 rpm and with a 3 mm shaking stroke (depending on the attachment used)
- It has two different speed modes for controlling temperature according to the sample
- Automatically performs mixing and heating tasks with five programmable ramps with five increments each consisting of temperature speed and time
- Die-cast aluminium housing ensures stability
- USB and RS 232 interfaces
- Shaking frequency can be adjusted in 10° increments

Technical specifications:

Art. No.	1H67.1
Type	Matrix Orbital Delta Plus
Operating temperature	15 °C below room temperature up to 100 °C
Temperature adjustment range	+1 to +100 °C
Accuracy	0,5 K
Resolution	1 °C
Average heating rate	6 °C/min
Medium cooling rate	0.8 °C/min
Timer	1 sec to 100 h, (in 1 min increments) or continuous operation
Shaking frequency	300–3000 rpm
Shaking amplitude (stroke)	3 mm
W x D x H	216 x 351 x 127 mm
Weight	10 kg
Mains connection	100–240 V, 50/60 Hz

Accessories interchangeable block for Matrix Orbital Delta Plus thermoshaker

IKA.

For reaction vials

Max. shaking frequency of 2000 rpm for 0.5/1.5/2.0 ml reaction vials, max. 1000 rpm for 5 ml reaction vials (max. Ø 17 mm).

Pic.	Suitable for	Art. No.	Pack Qty.
(1)	24 x 0.5 ml conical reaction vials	1H8A.1	1 unit(s)
(2)	24 x 1.5 ml conical reaction vials	1H8C.1	1 unit(s)
(3)	24 x 2.0 ml cylindrical reaction vials	1H8E.1	1 unit(s)
(4)	8 x 5.0 ml conical reaction vials	1H8H.1	1 unit(s)

For centrifuge tubes

Max. shaking frequency 1000 rpm.

Pic.	Suitable for	Art. No.	Pack Qty.
(5)	8 x 15 ml centrifuge tubes (Falcon®)	1H8K.1	1 unit(s)
(6)	4 x 50 ml centrifuge tubes (Falcon®)	1H8L.1	1 unit(s)

For trays

Max. shaking frequency of 3000 rpm for microtiter plates/384-well PCR trays, max. 2000 rpm for 96-well PCR trays and max. 1000 rpm for deep-well trays.

Pic.	Suitable for	Art. No.	Pack Qty.
(7)	Microtiter plate or deep-well tray	1H8N.1	1 unit(s)
(8)	96-well PCR tray	1H8P.1	1 unit(s)
(9)	384-well PCR tray	1H8T.1	1 unit(s)

Delivery without interchangeable block (please order separately).

Type	Version	Max. exchange blocks	Art. No.	Pack Qty.
Matrix Orbital Delta Plus	Heating and cooling	1	1H67.1	1 unit(s)



Thermoshakers



Accessories cover for blocks which are suitable for the Matrix Orbital Delta Plus thermoshaker IKA.

Suitable for blocks for 96-/384-well PCR trays and blocks for 0.5/1.5/2.0 ml reaction vials.

(1) Cover

For uniform temperature control and to protect the samples against unwanted light exposure.

Type	Art. No.	Pack Qty.	
Cover	1H8X.1	1 unit(s)	

(2) Thermocover

Prevents condensation from forming on container walls or covers.

Type	Art. No.	Pack Qty.	
Thermocover	1H8Y.1	1 unit(s)	



Heating thermoshaker type MH series

Hettich Benelux.

For dry, clean and fast **heating and mixing**. For reaction vials, tubes and microtiter plates.

Equipment features of all models:

- With timer, short-mix function (e.g. for vortexing) and interval shaking with snipping effect
- Background LCD display for all setpoint and actual values
- **Direct input of temperature curves with different shaking frequencies**
- Removable control panel for connecting to an extension cable

Programmable control:

Programmable with 30 programming steps for up to 9 different programs. Program parameters: Nominal temperature, process time (max. 99 h/continuous), expansion time (time in which the nominal temperature is to be reached), shaking frequency, interval shaking, pause, etc.

Technical specifications:

Art. No.	HA05.1	EY98.1	EY99.1
Type	MHR 13	MHR 23	MHL 23
Operating temperature	From 3 °C above room temperature to +130 °C		
Temperature adjustment range	0 - 140 °C		
Accuracy	±0,1 K		
Resolution	0,1 °C		
Average heating rate	approx. 4 °C/min from +41 °C approx. 5 °C/min up to +40 °C		
Shaking frequency	200–1500 rpm		200–1300 rpm
Shaking amplitude (stroke)	3 mm		
W x D x H	220 x 345 x 160 mm		
Mains connection	110/240 V, 50/60 Hz		

Delivery incl. control panel. Without interchangeable blocks, please order separately (see Interchangeable blocks for cooling and heating thermoshakers).

Model: MHR 13

Circular shaking motion for dissolving critical DNA pellets from conical tips in conical reaction vials.

Type	Version	Shaking motion	Max. exchange blocks	Art. No.	Pack Qty.	
MHR 13	Heating	round	1	HA05.1	1 unit(s)	

Model: MHR 23

Double heating thermoshaker with circular shaking motion for dissolving critical DNA pellets from conical tips in conical reaction vials. Suitable for two insertion blocks. Same position when stopped.

Type	Version	Shaking motion	Max. exchange blocks	Art. No.	Pack Qty.	
MHR 23	Heating	round	2	EY98.1	1 unit(s)	

Model: MHL 23

Double heating thermoshaker with linear shaking motion creates a jerky motion for better mixing of small sample volumes in the µl range. Suitable for two insertion blocks. Same position when stopped.

Type	Version	Shaking motion	Max. exchange blocks	Art. No.	Pack Qty.	
MHL 23	Heating	linear	2	EY99.1	1 unit(s)	

Thermoshakers



Cooling and heating Thermoshaker MKR 13 and MKR 23

Hettich Benelux.

For dry, clean and fast **cooling, heating and mixing**. For reaction vials, tubes and microtiter plates.

Circular shaking motion: Ideal for dissolving critical DNA pellets from conical tips in conical reaction vials.

Features:

- **Cooling function up to 16/10 °C below room temperature, heating up to +100/75 °C**
- Active counter cooling with Peltier elements
- Coolers with speed-controlled fans direct heat or cold air to the outside
- With timer, short-mix function (e.g. for vortexing) and interval shaking with snipping effect
- Background LCD display for all setpoint and actual values
- **Direct input of temperature curves with different shaking frequencies**

Programmable control:

Programmable with 30 programming steps for up to 9 different programs. Program parameters: Nominal temperature, process time (max. 99 h/continuous), expansion time (time in which the nominal temperature is to be reached), shaking frequency, interval shaking, pause, etc.

Technical specifications:

Art. No.	HA02.1	KA68.1
Type	MKR 13	MKR 23
Operating temperature	From 16 °C below room temperature up to +100 °C	From 13 °C below room temperature up to +75 °C
Temperature adjustment range	-10 to +105 °C	0 to +75 °C
Accuracy	±0,1 °C	±0,3 °C
Resolution	0,1 °C	
Average heating rate	approx. 5 °C/min from +41 °C approx. 6 °C/min up to +40 °C	
Medium cooling rate	approx. 3 °C/min below +20 °C approx. 7 °C/min up to +20 °C	
Shaking frequency	200–1500 rpm	200–1200 rpm
Shaking amplitude (stroke)	3 mm	
W x D x H	220 x 345 x 195 mm	
Mains connection	110/240 V, 50/60 Hz	

Delivery incl. control panel. Not including insert block (please order separately, see Insert blocks for cooling and heating thermoshaker).

Type	Version	Shaking motion	Max. exchange blocks	Art. No.	Pack Qty.	
MKR 13	Heating and cooling	round	1	HA02.1	1 unit(s)	
MKR 23	Heating and cooling	round	2	KA68.1	1 unit(s)	



Accessories interchangeable block for cooling and heating thermoshaker

Hettich Benelux. Material: Aluminium.

Suitable for models: MHR 13, MHR 23, MHL 23, MKR 13, MKR 23 and TK 23.

For reaction vials

Suitable for	Art. No.	Pack Qty.	
96 reaction vessels 0.2 ml conical	AY21.1	1 unit(s)	
38 reaction vessels 0.5 ml conical	AY22.1	1 unit(s)	
24 reaction vessels 1.5 ml conical	AY23.1	1 unit(s)	
24 reaction vessels 2.0 ml cylindrical	AY24.1	1 unit(s)	
24 x 0.5 and 1.5 ml reaction vials (combined block)	ANN7.1	1 unit(s)	

For sample tubes

Suitable for	Art. No.	Pack Qty.	
24 sample tubes Ø 10.3 mm x D 46 mm, round bottom	AY25.1	1 unit(s)	
24 sample tubes Ø 16.5 mm x D 46 mm, round bottom	AY26.1	1 unit(s)	
24 sample tubes Ø 12.0 mm x D 20 mm, flat bottom	TA95.1	1 unit(s)	
24 sample tubes Ø 15.0 mm x D 30 mm, flat bottom	TA96.1	1 unit(s)	
24 sample tubes Ø 17.0 mm x D 30 mm, flat bottom	TA97.1	1 unit(s)	
24 sample tubes Ø 19.0 mm x D 25 mm, flat bottom	TA98.1	1 unit(s)	
12 sample tubes Ø 23.0 mm x D 56 mm, flat bottom	TA99.1	1 unit(s)	
8 sample tubes Ø 28.0 mm x D 40 mm, flat bottom	TC00.1	1 unit(s)	

For centrifuge tubes with cover (for block insulation)

Suitable for	Art. No.	Pack Qty.	
14 x 15 ml centrifuge tubes (Falcon®)	AY27.1	1 unit(s)	
6 x 50 ml centrifuge tubes (Falcon®)	AY28.1	1 unit(s)	

For cells

Suitable for	Art. No.	Pack Qty.	
36 rectangular cells, 12.5 mm outer width	TC01.1	1 unit(s)	

For Deepwell plate

Suitable for	Art. No.	Pack Qty.	
96-well Deepwell plate	TC02.1	1 unit(s)	

For individual processing

Suitable for	Art. No.	Pack Qty.	
Without hole, H 37 mm	TC04.1	1 unit(s)	
Without hole, H 50 mm	TC05.1	1 unit(s)	

For microtiter plates

Suitable for	Art. No.	Pack Qty.	
U-/V-profile	AY29.1	1 unit(s)	
Flat profile	AY30.1	1 unit(s)	



For PCR® trays

Suitable for	Art. No.	Pack Qty.	
PCR® trays 96, V-profile	AY31.1	1 unit(s)	
PCR® trays 384	AY32.1	1 unit(s)	

For DURAN® flasks

Suitable for	Art. No.	Pack Qty.	
1 x 250 ml DURAN® flask, Ø 71.5 mm, D 74 mm	ANN9.1	1 unit(s)	
2 x 50 ml DURAN® flasks, Ø 47 mm, D 60 mm	ANN8.1	1 unit(s)	

For cryogenic vials

Suitable for	Art. No.	Pack Qty.	
24 cryogenic vials, Ø 13 mm, D 30 mm, flat bottom	ANP0.1	1 unit(s)	
24 cryogenic vials, Ø 13 mm, D 40 mm, round bottom	ANP1.1	1 unit(s)	



Rotary evaporators RV 3 series

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.	KAX8.1	HTX5.1
Type	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	
Hose connectors	For hoses ID 8 mm (water and vacuum hose)	
L x W x H, total	440 x 330 x 530 mm	
Weight	8 kg	
Mains connection	100–240 V, 50/60 Hz	

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)	
RV 3 V-C	Vertical cooler	Coated	HTX5.1	1 unit(s)	



Rotary evaporators RV 8 series

IKA.

General properties:

- Manual lift with integrated safety lift function (single-hand operation, suitable for left and right handed users)
- Digital displays for rotation speed and heating bath temperature
- Adjustable immersion angle and height
- Piston fixture with integral push-off mechanism for easier changing of evaporating flasks
- Available in two versions: With standard glassware or coated glassware (condenser and receiving flask are coated for shatter protection).

HB 10 digital heating bath:

- Universal water/oil heating bath with integrated carrying handles
- Locking function prevents accidental changing of heating bath settings
- Run-dry monitoring
- Adjustable safety temperature

Technical specifications:

Art. No.	NH24.1	NH25.1
Type	RV 8 V	RV 8V-C
Speed range	5 to 300 rpm	
Operating temperature	Ambient temperature to +180 °C	
Heating output	1300 W	
Setting accuracy	1 °C	
Control deviation	±1 K	
Bath volume	4 l	
Heating bath width	330 mm	
Heating bath length	190 mm	
Heating bath height	325 mm	
Adjustable head angle	0–45 °	
Hose connectors	For hoses ID 8 mm (water and vacuum hose)	
L x W x H, total	630 x 345 x 760 mm	
Weight	17.2 kg	
Mains connection	220–240 V, 50/60 Hz	

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 8 V	Vertical cooler	Non-coated	NH24.1	1 unit(s)	
RV 8V-C	Vertical cooler	Coated	NH25.1	1 unit(s)	

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Россия (495)268-04-70

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Казахстан (772)734-952-31

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Сургут (3462)77-98-35
Тверь (4822)63-31-35

Киргизия (996)312-96-26-47

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93