Rotavapor®

R II

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The Rotavapor® RII – a high quality key product

Vacuum distillation is the most frequently used method of thermal separation. For small quantities the principle of rotary evaporation is the most widely used. The rotary evaporator separates materials gently, quickly and economically. Its rotating flask produces a very effective transfer of heat, whilst ensuring thorough mixing and avoiding local overheating of the contents.

Buchi, the company that invented the rotary evaporator, has been equipping laboratories worldwide for over half a century. Generations of chemists gain their degrees using a Rotavapor – and go on to appreciate its simplicity of operation, long service life and robustness in their professional careers. The Rotavapor RII fulfils exactly the fundamental needs of classical laboratory applications in teaching and research. It performs the important functions practically and dependably, without compromising on quality or safety – a device for gentle evaporation in the laboratory.

Rotavapor® RII

Vapour ducting

A continuous vapour duct and a vacuum seal made of PTFE composite material provide long service life and effective sealing.

Basic unit
Small footprint and robust design in powder-coated aluminium.

Combi clip

Elegant solution for the easy removal of the flask and dismantling of the vapour duct.

Manual quick-action jack

Simple raising and lowering of the flask by hand – makes operation quick and safe.

Heating bath

A heating bath for temperatures of 20 to 95 °C.
The quick-release electrical connection means it is particularly easy to remove.

Glass assemblies for the RII

The Rotavapor RII is available with three common glass assemblies:

Glass assembly A

- Diagonal condenser
- Can be used where height is limited
- For standard distillations
- With optional tap for continuous feeding

Glass assembly V

- Vertical condenser
- Minimum space requirement
- For standard distillations
- With optional tap for continuous feeding

Glass assembly C

- Dry ice condenser
- For distilling solvents with low boiling points
- With optional tap for continuous feeding
- No cooling water necessary

If required, all glass parts (except the evaporating flask) can be P+G coated (see front page illustration). This protects against mechanical damage and provides efficient protection against glass splinters.

Accessories

Valve unit for vacuum controller

Unit with condensate trap and non-return valve with attachment for Rotavapor (not necessary with V-700 in stand-alone system).

Order No. 47160

Vacuum valve for vacuum controller

For use with a central vacuum source or uncontrolled pump.

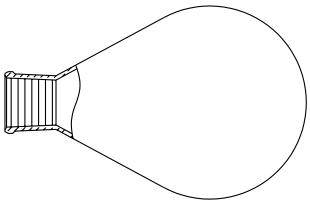
Order No. 31353

PTFE tap

For the continuous feed of solution into the evaporation flask during evaporation.

Order No. 48100

Evaporating flask



Pear-shaped evaporator flask, with standard joint.

	Order No.	
Std. joint	29/32	24/40
50 ml	00431	08750
100 ml	00432	08751
250 ml	00433	08754
500 ml	00434	08758
1000 ml	00435	00440
2000 ml	00436	08765
3000 ml	00437	08767
4000 ml	47991	47990

Other standard joints on request.

Woulff bottle

For trapping particles and droplets for pressure equalisation (recommended in stand-alone system with V-700).

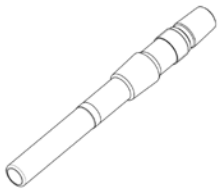
Order No. 47170

Water jet pump

Simple principle of vacuum generation, available with or without cooling water valve The vacuum controller switches on and off as required.

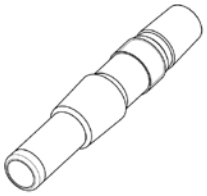
	Order No.
Without water valve	31358
With water valve	31357

Vapour ducting



For glass assembly A

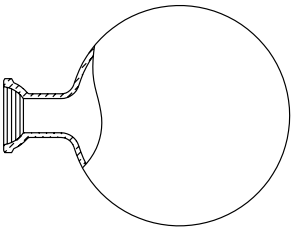
	Order No.
NS 29/32	46964
NS 24/40	48068
NS 29/42	48072
NS 34/35	48074



For glass assemblies V+C

	Order No.
NS 29/32	46962
NS 24/40	48067
NS 29/42	48069
NS 34/35	48073

Receiving flask



Round receiving flask with ball joint pan KS35-20.
With or without P+G coating.

	Order No.	
	Standard	P+G
500 ml	00424	25264
1000 ml	00425	20728
2000 ml	00426	25265
3000 ml	00427	25266

A special P+G-LT low temperature coating is used for glass assembly C.

500 ml	40774
1000 ml	40775
2000 ml	40776
3000 ml	40777

Protective shield

Practical attachment to the bath's edge: effective protection for the user against splashing or a possible flask breakage.

Order No. 48052

Vacuum seal

Low abrasion vacuum seal in PTFE composite material for long service life and effective sealing.

Order No. 48021

Expansion to a complete evaporator system

Vacuum Pump V-700

The Vacuum Pump V-700 is specially designed for laboratory use. This chemically resistant PTFE diaphragm pump can deliver all types of gases and vapours. With a capacity of 1.8 m^3/h and a final vacuum of less than 10 mbar it is optimally suited to work with the Rotavapor. In combination with the Vacuum Controller V-850 it creates the complete system "V-700 Advanced", which does not require an additional vacuum valve.

	Order No.
100–230 V	71000

Manual vacuum setting

The Rotavapor is fitted with a needle valve and manometer for simple manual setting of the vacuum. Recommended for use in combination with a Woulff bottle (Order No. 47170).

Order No. 47291

Vacuum Pump V-700 EasyVac – the simple alternative for distillation task

The EasyVac vacuum module is a new concept for vacuum regulation during the distillation of single solvent systems. It couldn't be easier to operate. The process is started at the press of a button. The module then automatically finds the distillation start point, controls the pressure in accordance with the vapour pressure curve and determines the end point for a distillation. The vacuum module EasyVac is the ideal control unit for an automatic evaporation system. Delegate the process settings to the unit and you will have more time for other tasks.

Order No. 71410

Vacuum Controller V-850

For a clear and simple display and regulation of the vacuum. Inert construction, including integrated ventilation valve and precision pressure sensor. Menu selectable in six languages. Can be used directly with Vacuum Pump V-700.

Order No. 47299

A simpler recirculating chiller – the right choice for the RII

The Distillation Chiller B-741 is a low-cost recirculating chiller that is designed as the ideal replacement for cooling water for the Rotavapor. The chiller cools to a set temperature of 10 °C and has a power rating of 500 W at 15 °C. The compact design on castors ensures space-saving set-up in the laboratory.

	Order No.
230 V	46770
120 V/60 Hz	46772

Combine your R II

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Voltage options
1 220–240 V
2 100–120 V

Joint options for evaporating flask
1 NS 29/32
2 NS 24/40

Glass assembly options
(including 1000 ml evaporating flask and receiving flask)
A Glass assembly A
V Glass assembly V
C Glass assembly C

P+G
0 Glass assembly without plastic coating
1 Glass assembly with plastic coating

Technical data

	Rotavapor® RII	**Heating bath**
Dimensions (L x H x D)	550 x 575 x 415 mm	285 x 240 x 300 mm
Weight	16–18 kg (depending on glass assembly)	4 kg
Operating voltage	100–240 V	100–120 V or 220–240 V
Frequency	50/60 Hz	50/60 Hz
Power consumption	60 W	1300 W
IP class	21	21
Rotation speed	20–280 rpm	
Flask size	50–4000 ml	up to 4000 ml
Maximum flask capacity	3 kg	
Controlled temperature range		20–95 °C
Display	scale 0–10	scale 0–100 °C, Heating on/off
Temperature deviation		± 2 °C
Bath capacity		4 l
Approval	CE GS	CE GS

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