

NEW

Rotavapor® R-3 Basic Evaporator



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The Rotavapor® R-3: High quality, easy to use, low maintenance and durable

The evaporation of solvents is a routine process widely used in laboratories. Buchi introduces the Rotavapor® R-3 specifically intended for the classic, fundamental laboratory applications required by educational institutes for both research and teaching.

Manual lift

- Simply compress the lever to raise and lower the lift
- Makes operation quick and safe

NEW

Glass assembly V

- Vertical condenser
- Space-saving design
- For standard distillations
- Condenser is made of Schott borosilicate 3.3 glass

Vapor duct

- The precise manufacturing process improves the life time of the vacuum seal
- Simple disassembly with the Combi-clip for easy cleaning
- One-piece vapor duct prevents sample cross-contamination

NEW

Stopcock

- For aerating the system and rudimentary regulation of the distillation process
- Refill of the evaporation flask for semi continuous distillations

Power cable

- Only one power cable for the R-3 and heating bath
- Eliminates the need for additional power sockets

Vacuum seal

- The inert PTFE sealing ring is the only material in direct contact to the solvent
- Highest durable composite withstands abrasion from the rotating vapor duct
- Easily installed and removed to improve maintenance and cleaning of the sealing system

Comb-clip – Three functions combined in one tool

- Secure flask to vapor duct
- Safe removal of vapor duct
- Quick removal of evaporation flask
- Original Combi-clip designed by Buchi

Rotation speed

- Continuously adjustable rotation speed between 20 and 280 rpm
- A rotation speed of 280 rpm offers the possibility for high distillation rates
- Adjustable angle of the rotation unit to support different flask sizes

NEW

Bath display

- Easy to read and understand
- Adjustment of the water bath temperature from room temperature to 95 °C

Heating bath

- Maintenance-free stainless steel pan
- Accommodates up to 4 L flask
- Maximum 1300 W output enables high working temperatures
- Sturdy, thick-walled bath built for durability and long lifetime

Complete evaporation system

Maximize efficiency while minimizing cost

Buchi combines the industry-leading Rotavapor® R-3 with our established Vacuum Pump V-700, and the Recirculating Chiller F-100. These powerful devices provide cost effective complete evaporation system for simple and efficient evaporation.

Vacuum Pump V-700 and Manometer with needle valve

When compared to a water jet pump, the V-700 is the clear environmental winner!



- **Superior Performance** – High flow rate of 1.8 m³/h and a final vacuum of <10 mbar.
- **Chemical Resistance** – PTFE coated diaphragms withstand most common solvents.
- **Environmental Impacts** – Water jet pumps can contaminate the water supply with solvent vapours if the rate of evaporation exceeds the rate of cooling.
- **Vacuum Regulation** – Manometer with needle valve allows basic pressure regulation to prevent solvent vapors being pulled into the vacuum system, which extends the lifetime of the pump.
- **Low Maintenance** – Composite glass and PEEK head allows easy inspection of the diaphragm – if liquid appears, simply open a gas ballast valve to dry the pump head.

Recirculating Chiller F-100

Unlike tap water, recirculating chillers are ecological, sustainable and ensure constant, reproducible cooling conditions.



Available as of July 1st, 2010

- **Conserve Water** – Tap water used for chilling a rotary evaporator wastes about 60 - 100 L/h.

Accessories

Vacuum pump V-700



V-700; two stages membrane pump with manometer and needle valve for easy adjustment of the vacuum; incl. Woulff' bottle.

Order no. 071110

Recirculating Chiller F-100



Cost-efficiency and basic instrument of the Buchi Chiller Line.

	Order no.
120 V	11056461
230 V	11056460

Protective shield



Fits conveniently to the edge of the bath providing the user with an effective protection against splashing or possible flask breakage.

Order no. 048052

Vacuum seal



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

Order no. 000636

Evaporating flask



Pear-shaped evaporating flask, with standard joint.

	Order no.
STJ	29/32
50 ml	000431
100 ml	000432
250 ml	000433
500 ml	000434
1000 ml	000435
2000 ml	000436
3000 ml	000437
4000 ml	047991

Drying flask



Special flask for drying powdery substances. The integrated baffles encourage thorough mixing and prevent crusting of the sample.

	Order no.
STJ	29/32
500 ml	000452
1000 ml	000453
2000 ml	000454

Flask holder



Flask ring made of non-slipping EPDM.

Order no. 048618

Reitmeyer adapters



Prevents contents from the evaporation flask being drawn into the condenser in the event of bumping.

Order no. STJ29/32 036576

Vapor duct



For glass assembly V.

Order no. STJ29/32 032339

Ordering Code Rotavapor® R-3

1103011V0 Rotavapor® R-3 with heating bath, STJ 29/32 evaporating flask and receiving flask

Technical data

Dimensions (W x H x D)	430 x 520 x 315 mm
Weight	14–15 kg (depending on glass assembly)
Operating voltage	220–240 V
Frequency	50/60 Hz
Heating Power consumption	1300 W
IP class	21
Rotational speed	20–280 rpm

Flask size	50–4000 ml
Maximum flask capacity	3 kg
Control range	20–95 °C
Display	– Temperatur waterbath – set/actual
Regulation accuracy	± 1 °C
Bath capacity	4000 ml
Approval	CE

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