

Rotary vacuum evaporators



Solution for your comfort and safety



INGOS rotary vacuum evaporators are high-quality, resistant, safe and easy-to-operate devices. Their frame was designed with respect to design simplicity and easy control.

The RVO 400 series represents intelligent evaporators that save you time and ensures the safety possible evaporation.

The RVO 400 series stands for evaporators combining simplicity and practicality.



Laboratory Instruments since 1995

RVO 400

The rotary evaporators of the RVO 400 series offer even in their basic version above-standard equipment, which is why they match the needs of demanding users in their parameters and design.

Vapour temperature sensor

Evaporation accuracy and reproducibility can be increased to even further heights by using a vapour temperature sensor.

Safe set tilting

The whole glass set can be tilted using a lever within a $\pm 20^\circ$ range.

Receiving flask

Selection of receiving flasks from 250 ml to 2000 ml.

Remote controller

We can supply a remote controller for wireless evaporation control upon request.

Evaporating flask

Evaporating flasks from 20 ml to 4000 ml.

Water / oil bath

For accurate heating from 0°C to 180°C .

Regulation accuracy for:
 $0-100^\circ\text{C}: \pm 1^\circ\text{C}$
 $0-180^\circ\text{C} \pm 3^\circ\text{C}$

Electric bath lift

Safer evaporation is provided by handling the water bath instead of the equipment. Possibility to set the bath lift stop.



Compact control panel

- Temperature, pressure, rotations, bath lift and evaporation time can be controlled with the digital panel.
- Evaporation programs can be saved in four memory sets.
- The device enables the function of pressure and temperature gradient.
- The device panel can be removed and hung up e.g. inside the draught cupboard or at a remote workplace.



RVO 004

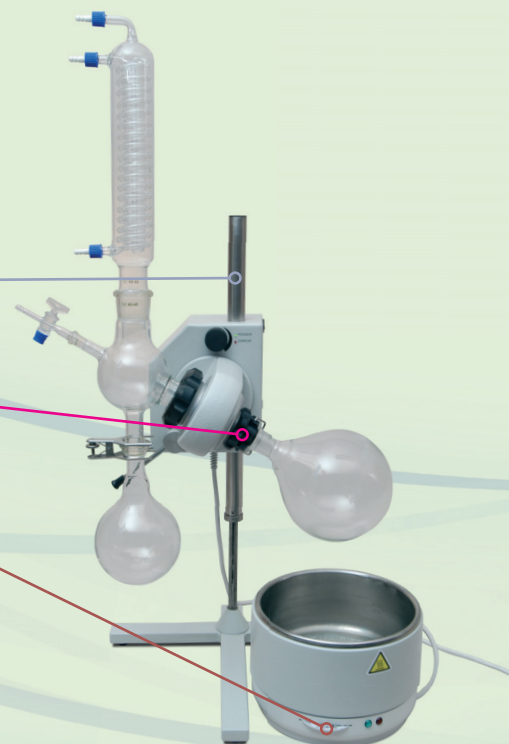
The vacuum evaporators of the RVO 004 series are devices with maximum simplicity, equipped with a safety tilting system, mechanical equipment lift and an accurate bath temperature control system upon request.

Manual bath lift

Mechanical rotation speed check

Water bath control

Choice of $\pm 5^\circ\text{C}$ (Standard version) or $\pm 2^\circ\text{C}$ (Control version) accuracy.



Wide selection of glass and accessories

A wide range of glass evaporation accessories is supplied for INGOS evaporators.

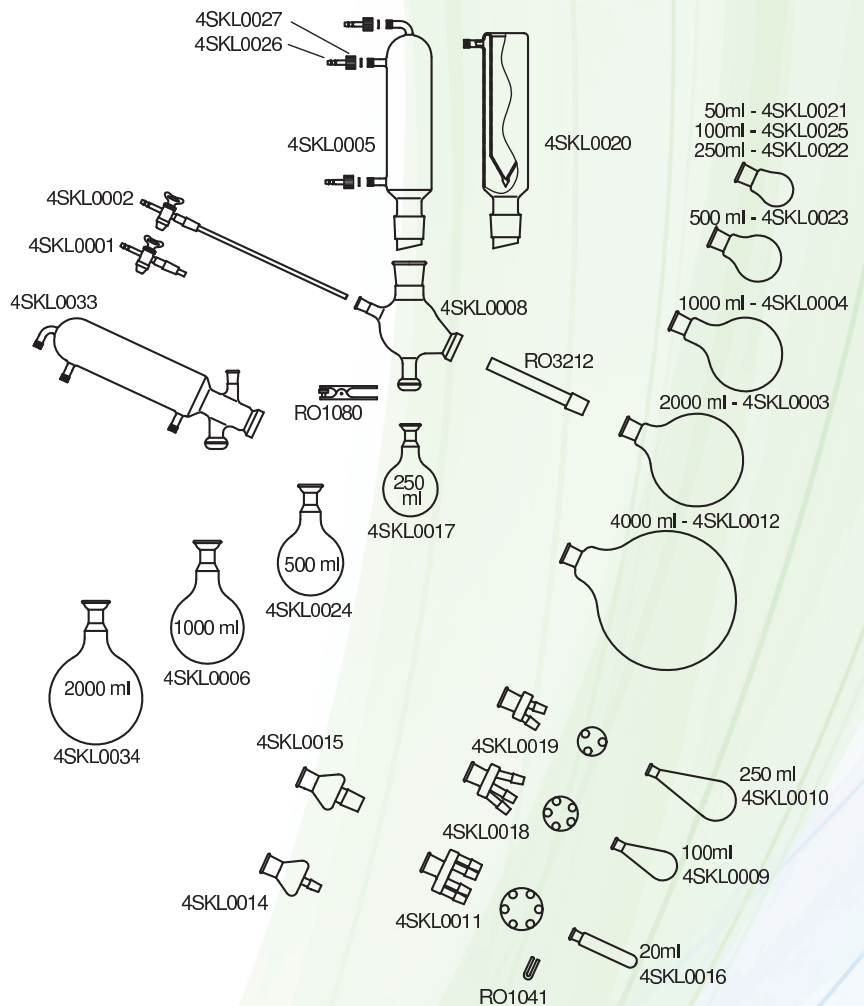
To increase evaporation safety, glass with protective plastic finish or other protective tools, such as a bath cover or remote controlled, can be used.

Chemically resistant sealing

The sealing (git seal) is made of chemically resistant material. The part of the sealing in contact with evaporated substances is coated with a Teflon film. This treatment ensures a long service life even when evaporating chemically aggressive substances.

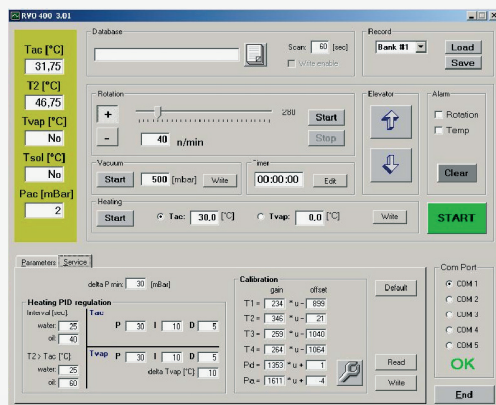
Reliable service

For all devices we produce we provide full user support from installation to training of operators and fast and readily available warranty and post-warranty service. The devices are serviced in the Czech Republic directly by INGOS. You can therefore expect professional service carried out by experienced experts.



Control by PC

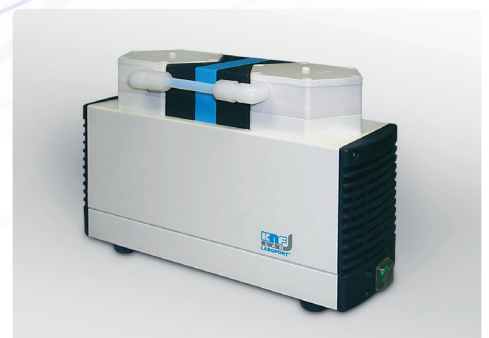
The vacuum evaporator can be controlled by computer if special software is used. The RVO 400 can be equipped with the software control option via serial port upon request. All evaporation parameters may be conveniently set on the PC screen, which gives to the user more comfort and a better overview of the vacuum evaporator.



Other accessories

INGOS supplies a wide range of vacuum pumps for its devices. We will recommend and supply a vacuum pump with corresponding parameters and tailored to your needs.

We can also supply bath circulating thermo regulators and flow coolers for solutions designed for water savings.



Technical specification

RVO 400	
Rotation range	0 – 280 rpm
Bath temperature	
- for water filling	max. 100°C
- for oil filling	max. 180°C
Temperature control accuracy	
- for water filling	± 1°C to +100°C
- for oil filling	± 3°C to +180°C
Pressure measurements	Absolute
Pressure difference	Adjustable, 1-500 mbar
Digital settings	Temperature, rotations, vacuum
Gradient settings	Temperature, pressure
Temperature units selection	°C, °K
Pressure units selection	hPa, Torr
Cooler condensation size	1200 sq cm
Bath lift	Electric
Optional accessories	Wireless remote controller PC-based evaporation control software Bath safety cover
Power supply	230 V, 50 Hz
Switched vacuum pump output	max. 650 VA input max. 2000 VA

RVO 004	
Rotation range	20 – 140 rpm
Bath temperature	
- Standard version	+20°C - 95°C
- Control version	+20°C - 100°C
Temperature control accuracy	
- verze Standard	± 5°C
- verze Control	± 2°C
Cooler condensation size	1200 sq cm
Bath lift	Manual
Power supply	230 V, 50 Hz

INGOS – Laboratory Instruments division was founded in 1995. The division develops, produces and services laboratory instruments. A number of employees gained experience from their longtime employment with the former state enterprise Mikrotechna which developed and produced laboratory devices, the forerunners of those being made today by INGOS. For all devices we produce we provide full user support from installation to training of operators and fast and readily available warranty and post-warranty service.

INGOS also offers these devices:



HPLC Semipreparative and Analytical Systems



Block Heater



Amino Acid Analyser



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INGOS is the holder
of ISO 9001, ISO 14001 and
OHSAS 18001 certifications.

