



RC 900 AND RC 600 ROTARY EVAPORATORS INSPIRINGLY EASY TO USE

BENEFIT FROM EXPERT KNOWLEDGE

ROTARY EVAPORATION TAILORED TO PRACTICAL NEEDS

Under the spotlight at KNF: What aspects are really key to rotary evaporation in everyday lab practice? What is needed to guarantee simple, economical and reliable processes day in day out? These are the questions we used to guide us when developing and implementing the RC 900 and the new RC 600. We became involved in daily lab work. We asked lab technicians what they wished for, enlisted experts to perform tests and incorporated their suggestions. The result? KNF rotary evaporators designed to impress thanks to their distinct handling advantages, clever functional details and well thought out safety features.

What makes KNF's rotary evaporators stand out?

For years we have offered the SC 920 vacuum pump system, a much sought-after laboratory device that works side by side with distilling apparatus. Simple handling, a small footprint and whisper quiet operation are the KNF strengths that set the SC 920 apart.

Its success has encouraged us to broaden our systems approach to create a perfectly balanced package comprising a rotary evaporator, vacuum pump system and chiller. Curious? Then discover KNF's rotary evaporators and their advantages today!

EASY TO USE | CLEVER FUNCTIONAL DETAILS | WELL THOUGHT OUT SAFETY FEATURES

RC 900. SUPERIOR PERFORMANCE SYSTEM.

Rotary evaporator, vacuum pump system and chiller as a perfectly coordinated system.



RC 600. DESIGNED FOR ACADEMIA LABS.

System packages to suit different budget conditions are available – e.g. one comprising a vacuum pump system to simultaneously and independently assist two rotary evaporators.





SUPERIOR PERFORMANCE SYSTEM

RC 900. DISTILLATION MADE SIMPLE.

CLEAR ADVANTAGES FOR USE

Designed for everyday use, and tailored to practical needs. The RC 900 makes rotary evaporation far simpler and safer. The high-performance system for meeting stringent requirements is impressive thanks to its intuitive handling and valuable functions that provide outstanding support for everyday lab work. Reliability, operational safety and precision come as standard with the RC 900. Safety features add to the advantages that make the system so suitable and indispensable for precise distillation. Moreover the RC 900 operates extremely quietly.

- **Sleek design, minimum footprint**

The RC 900 takes up very little space and offers maximum ease of use.

- **Whisper quiet for a pleasant working environment**

The lift and rotation of the RC 900 are virtually silent.

- **Versatile use, simple operation**

The system offers central remote control for all functions, and operation via touchscreen and control knob.

Relevant parameters for distillation and for the heating bath are easily set by **touching and turning**.

Memory function – simply press the memory button to save the flask's current immersion depth and rotation speed for easy and reliable process repeatability.

Cordless heating bath with diode to indicate heat level and a pour spout for **safe, spill-free emptying**.



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winner

■ **Cooling condenser is straightforward to detach** by turning the clamping nut. The cooling condenser is also extremely easy to clean.

■ **Tube guide inside the tower** – tidy and safe, with tubes no longer an obstruction.

■ **Uncomplicated flask exchange** – flask simply locks into place – and can be done with one hand.

■ Convenient, fully adjustable **flask angle** set via a control knob.



” The RC 900 is a high-performance system that is easy to use. Its clever details and automated functions not only significantly ease everyday use, they also guarantee an efficient and safe operation.

Dr. Alexander Scherer, Chair of Organic Chemistry,
Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany



EVAPORATION AS A PRECISELY TUNED SYSTEM

RC 900, SC 920 G AND C 900 SUCCESSFULLY COMBINED

Joining forces to create a precisely balanced system, we present the RC 900 rotary evaporator combined with the SC 920 G vacuum pump system and the C 900 chiller, which together form an effective, efficient system.



C 900 CHILLER

- Operating temperature range -10 to +40 °C, cooling capacity 250 W
- Compact design, small footprint
- Splash-proof membrane keypad
- Easy to fill

SC 920 G VACUUM PUMP SYSTEM

- Flow rate 1.26 m³/h, ultimate vacuum 2 mbar abs.
- Automatic, precise recognition and control of boiling point
- Pleasantly quiet operation
- Integrated gas ballast valve

HANDLING ADVANTAGES

RC 900 AND RC 600

EASE OF USE, DESIGNED TO INSPIRE YOU EVERY DAY

FLASK EXCHANGE | QUICK, EASY AND RELIABLE

Flasks can be exchanged quickly and easily:

- Push flask into retainer until the fastening clip is heard locking into place – that's all there is to it.
- To release, lift the fastening clip and remove the flask.
- Safety catch prevents the flask slipping accidentally during removal.
- The memory function saves the current immersion depth and rotation speed, enabling flasks to be changed quickly, easily and reliably during an iterative process.



FLASK ANGLE | FULLY ADJUSTABLE AND PRECISE

Different flask sizes require adjustable pivoting to ensure the flask is properly immersed in the water or oil bath.

- With the RC 900, the optimum position can be set with ease using a fully adjustable control knob.



COOLING CONDENSER | HIGH-PERFORMANCE AND EASY TO CLEAN

The cooling condenser performance is impressive thanks to its optimized coil design.

- Condensate collection is fast and efficient.
- Simply unscrew a clamping nut to detach the condenser for cleaning.
- Large opening of the condenser greatly facilitates cleaning.
- Dry ice cold finger available as accessory.





The RC 900's remote control shows all relevant parameter settings in a single operating level.



The optional protective cover is hinged, making for easy flask accessibility.

ALL-AROUND PROTECTION

RC 900 AND RC 600

ELABORATED SAFETY FEATURES

PROTECTIVE COVER | COMPREHENSIVE SAFETY WHEN NEEDED

The safety guard completely covers the heating bath. It is therefore the accessory of choice when ultimate safety is required.

- Simply place it on the rim of the heating bath and tighten three locking screws to secure.

- Electronic monitoring of the protective cover; if the heating bath is turned on when the protective cover is open, a warning sound is emitted.
- Easy access to flask thanks to hinged designed.



HEATING BATH | SAFE FOR THE USER AND THE PROCESS

The cordless heating bath offers safety and ease of use.

- Vertical double wall for the safe transportation of filled heating baths without spillages.
- Pour spout for safe emptying.
- Diode to indicate heat level.

- Mounted on the guide rail, the horizontal position of the heating bath can easily be adjusted to suit different flask sizes.
- Fill guide makes it easier to feed in the specific quantities of water or oil required for each flask size.



REMOTE CONTROL OF THE RC 900 | CENTRAL AND SECURE

The remote control allows the RC 900 to be operated safely even from outside closed fume hoods.

- All functions including heating bath can be centrally controlled.
- Ergonomically advantageous placement for glare-free input of parameters.



FOR INTENSIVE DAY-TO-DAY USE

RC 600. DESIGNED FOR ACADEMIA LABS.

RELIABLE DAILY PERFORMANCE

Pure rotary evaporation. The RC 600 has been specifically developed to meet the needs and demands of university and education facilities. A constant turnover of students calls for robust laboratory devices that are quickly understood. They must be designed to withstand continuous intensive use while unfailingly meeting the unique safety requirements of training labs.

High-performance system component. The RC 600 is an impressive, compact rotary evaporator that performs particularly space-saving distillation when combined with KNF's SCC 950 vacuum pump system. Equipped with two controllers, the SCC 950 is able to provide different vacuum conditions to two rotary evaporators at the same time.

- **Fit for purpose:** all functions operated centrally via membrane keypad providing exceptional ease of use.
- **Comprehensively robust:** device design and details were especially developed for intensive use.
- **Safe and compact:** cordless heating bath with pour spout, fixed tube guide, easy flask exchange – typical hazards eliminated thanks to well thought out solutions.



RELIABLE SAFETY

RC 600. PURE ROTARY EVAPORATION.

A VERSATILE SYSTEM COMPONENT

Set for flexibility: Several system packages to suit different budget conditions are available consisting of rotary evaporator, vacuum supply and chiller.

VACUUM PUMP SYSTEM SCC 950

- Flow rate 3 m³/h, ultimate vacuum 2 mbar abs.
- Equipped with 2 controllers
- Automatic, accurate recognition and monitoring of the boiling point using the integrated ramp function
- Pleasantly quiet operation
- Integrated gas ballast valve

VACUUM PUMP SYSTEM SC 920 G

- Flow rate 1.26 m³/h, ultimate vacuum 2 mbar abs.
- Automatic, accurate recognition and monitoring of the boiling point using the integrated ramp function
- Pleasantly quiet operation
- Integrated gas ballast valve

VACUUM CONTROL UNIT VC 900

- Control of the vacuum application
- Separate control unit with pressure sensors and two-step controlled valve to be placed independently from the operating unit

DIAPHRAGM VACUUM PUMP N 920 G

- Flow rate 1.26 m³/h, ultimate vacuum 2 mbar abs.
- High suction speed, particularly in the low vacuum range
- Integrated gas ballast valve

C 900 CHILLER

- Operating temperature range -10 to +40 °C, cooling capacity 250 W
- Compact design, small footprint
- Splash-proof membrane keypad
- Easy to fill

DUAL EVAPORATION



TURNKEY EVAPORATION



SMART EVAPORATION





■ **Safety as standard** – coated cooling condenser.

■ **Cooling condenser is straightforward to detach** by turning the clamping nut. The cooling condenser is also extremely easy to clean.

■ **Uncomplicated flask exchange** – flask simply locks into place – and can be done with one hand.

■ **Operating unit** – all functions operated centrally via a membrane keypad providing exceptional ease of use.

■ **Memory function** – simply press the memory button to save the flask's current immersion depth and rotation speed for easy and reliable process repeatability.

■ **Cordless heating bath** with a diode to indicate heat level and a pour spout for safe, spill-free emptying.

■ Control knob to adjust set points for **heating bath temperature** and **flask rotation speed**.

■ **Fixed tube guide.**

TECHNICAL DATA AND ACCESSORIES

ACCESSORIES	
Description	ID
Protective cover for heating bath	127204
Refill valve	300639
Coolant valve	300853
Vacuum seal	113046
Dry ice cold finger	301696

Technical drawings of the microscope showing front, side, and top views with dimensions:

- Front View (Top):** Shows the main body with a width of 412 mm and a height of 18-88 mm (sliding). The distance from the base to the eyepiece is 224 mm, and the distance from the base to the objective lens is 313 mm.
- Side View (Bottom Left):** Shows the side profile with a total height of 315 mm. The base has a width of 54 mm and a height of 39 mm. The distance from the base to the eyepiece is 54 mm. The distance from the base to the objective lens is 315 mm. The distance from the base to the objective lens is 315 mm.
- Top View (Bottom Right):** Shows the top of the microscope with a width of 412 mm. The distance from the base to the eyepiece is 463 mm. The distance from the base to the objective lens is 463 mm. The distance from the base to the objective lens is 463 mm.

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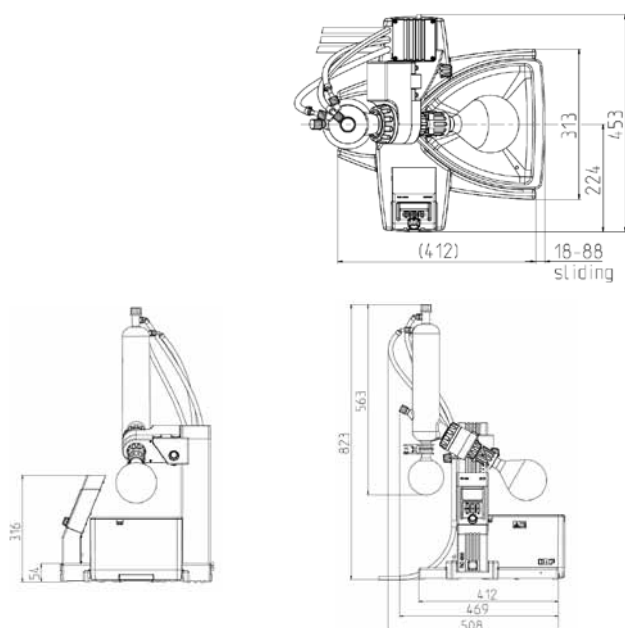
RC 600

TECHNICAL DATA AND ACCESSORIES

TECHNICAL DATA	
Heating bath	
Heating bath temperature [°C]	20 - 180
Coolant supply parameters (chilled condenser)	
Permissible pressure [bar]	3
Permissible temperature	-15 °C to +20 °C
Coolant-coated surface [cm²]	1230
Parameters of evaporation flask	
Size of evaporation flask	50 – 3000 ml
Rotational speed of evaporation flask [1/min]	25 – 250
Length of stroke [mm]	150
Lifting speed [mm/s]	38
RC 600	
Dimensions W x D x H [mm]:	
- without glass (footprint)	431 x 453 x 464
- with glass	487 x 453 x 823
Operating unit	
Type of display	LCD black/white
Indicated parameters	Rotation speed, temperature, lift

ACCESSORIES	
Description	ID
Protective cover for heating bath	127204
Refill valve	300639
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DIMENSIONS



A detailed breakdown of the technical data is available at www.knf.com.

YOUR LOCAL PARTNER AROUND THE WORLD

KNF SALES ORGANIZATION

Australia KNF Regional Office

Moreland West VIC 3055
Tel. +61 3 9386 4959
info@knf.com.au
www.knf.com.au

Benelux Netherlands KNF Verder B.V.

3451 GG Vleuten
Tel. +31 30 677 92 40
info@knf-verder.nl
www.knf-verder.nl

Benelux Belgium and Luxemburg

KNF Verder N.V.
2630 Aartselaar
Tel. +32 3 871 96 24
info@knf.be
www.knf.be

China KNF Technology (Shanghai) Co., Ltd.

Shanghai 201203
Tel. +86 21 5109 9695
info@knf.com.cn
www.knf.com.cn

France KNF Neuberger SAS

68128 Village-Neuf
Tel. +33 389 70 35 00
info@knf.fr
www.knf.fr

Germany KNF Neuberger GmbH

79112 Freiburg
Tel. +49 7664 5909 0
info@knf.de
www.knf.de

India KNF Pumps + Systems (India) Pvt. Ltd.

Hinjewadi Pune 411 057
Tel. +91 20 640 13 923
info@knfpumps.in
www.knfpumps.in

Italy KNF Italia S.r.l.

20063 Cernusco s. Naviglio (MI)
Tel. +39 02 929 04 91
info@knf.it
www.knf.it

Japan KNF Japan Co. Ltd.

Tokyo 104-0033
Tel. +81 3 3551 7931
info@knf.co.jp
www.knf.co.jp

Korea KNF Neuberger Ltd.

135-502 Seoul
Tel. +82 2 959 0255
knf@knfkorea.com
www.knfkorea.com

Latin America KNF Regional Office

Tel. +1 609 649 1010
gb@knf.com
www.knf.com/es

Morocco, Tunisia, Algeria

KNF Neuberger SAS
68128 Village-Neuf
Tel. +33 389 70 35 00
info@knf.fr
www.knf.fr

Singapore KNF Regional Office

Tel. +65 9722 1994
info@knf.com.sg
www.knf.com.sg

Sweden, Finland, Denmark, Norway

KNF Neuberger AB
117 43 Stockholm
Tel. +46 8 744 51 13
info@knf.se
www.knf.se

Switzerland KNF Neuberger AG

8362 Balzerswil
Tel. +41 71 973 99 30
knf@knf.ch
www.knf.ch

Taiwan KNF Taiwan Ltd.

Taipei City 11490
Tel. +886 2 2794 1011
knftwn@knftwn.com.tw
www.knftwn.com.tw

UK, Ireland KNF Neuberger U.K., Ltd.

Witney, Oxfordshire OX28 4FA
Tel. +44 1993 77 83 73
info@knf.co.uk
www.knf.co.uk

USA, Canada KNF Neuberger, Inc.

Trenton, NJ 08691-1810
Tel. +1 609 890 8600
knfusa@knf.com
www.knfusa.com

KNF PRODUCT CENTERS

Gas Pumps KNF Neuberger GmbH

DE-79112 Freiburg
info@knf.de
www.knf.de

Micro Gas Pumps KNF Micro AG

CH-6260 Reiden
info@knf-micro.ch
www.knf-micro.ch

Liquid Pumps KNF Flodos AG

CH-6210 Sursee
info@knf-flodos.ch
www.knf-flodos.ch