KNF laboratory equipment

KNF permanently strives to counter the challenges of daily lab work with easy handling. Devices from KNF are therefore intuitive and compact, and offer clear advantages when it comes to intelligent functions: quiet operation, powerful and totally reliable.

Discover lab technology that supports you.
LABOPORT® REDESIGNED

UNIQUE DESIGN, EASE OF USE

- Exceptionally space saving
  The impressively compact device takes up little space.

- Easy to clean
  The smooth surfaces without any ribs or hard edges are easy to keep clean.

- ATEX-compliant and chemically resistant for very aggressive/corrosive gases
  The inner, wetted area has been equipped to transfer explosive atmospheres.

- Speed-controlled
  The speed can be controlled by simply manually adjusting the vacuum power using the control knob or via an interface by connecting the pump to KNF’s VC 900 controller. Ideal for combining with all common vacuum controllers with valve control.

- Expandable
  Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system.

- Integrated gas ballast valve
  This valve supports short processing times even with solvents with a high boiling point, which protects the pump head.

- Portable
  The fold-out handle makes the device easy to transport and store.

- 3-color status display
  The changing color display allows the operational status to be ascertained at a glance.
ROTARY EVAPORATION / DISTILLATION

REPRODUCIBLE RESULTS WITH SHORT PROCESSING TIMES

Central remote control for all relevant parameters for distillation and for the heating bath – easy operation 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

Convenient, fully adjustable flask angle set via a control knob

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

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

SUPERIOR PERFORMANCE SYSTEM

RC 900 Rotary Evaporator

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.
**DESIGNED FOR ACADEMIA LABS**

**RC 600 Rotary Evaporator**
- Operating unit with all functions operated centrally via a membrane keypad providing exceptional ease of use.
- Control knob to adjust set points for heating bath temperature and flask rotation speed.
- 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.
- Uncomplicated flask exchange – flask simply locks into place and can be done with one hand.
- Coated cooling condenser for more safety.
- Cooling condenser is straightforward to detach by turning the clamping nut. The cooling condenser is also extremely easy to clean.
- Fixed tube guide.

**A VERSATILE SYSTEM COMPONENT**

*Set for flexibility:* Several system packages to suit different budget conditions are available. The VC 900 vacuum control unit can also be used to precisely control vacuum pumps from other manufacturers.

**QUIET**

**SC 920 G and SC 950 Vacuum Pump System**
- Flow rate up to 3 m³/h / Ultimate vacuum 2 mbar abs.
- Quiet operation.
- Remote-controlled for safe operation from outside closed fume hoods.
- Automatic, accurate recognition and monitoring of the boiling point using the integrated ramp function.
- High recovery rates even with low boiling point solvents.
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors.
- Integrated gas ballast valve.
- Speed-controlled.

**ROBUST**

**SC 820 and SC 840 Vacuum System**
- Flow rate up to 2.04 m³/h / Ultimate vacuum 8 mbar abs.
- Vacuum system comprising chemically resistant diaphragm vacuum pump, base plate, condenser, separator and vacuum control unit.
**CHEMICAL RESISTANCE**

**N 820 G and N 840 G Diaphragm Vacuum Pump**
- Flow rate up to 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 Internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

**Tip:** When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.

**ROBUST**

**N 842.3 FT.18 Diaphragm Vacuum Pump**
- Flow rate 2.04 m³/h / Ultimate vacuum 2 mbar abs.
- High level of vapor and condensate compatibility
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors

**SPEED-CONTROLLED**

**N 920 G Diaphragm Vacuum Pump**
- Flow rate 1.26 m³/h / Ultimate vacuum 2 mbar abs.
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

**Tip:** When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process.

**A POWERFUL PACKAGE**

**N 860.3 FT.40.18 Diaphragm Vacuum Pump**
- Flow rate 3.6 m³/h / Ultimate vacuum 4 mbar abs.
- Integrated KNF self-drying system ensures that condensate is quickly removed from the pump heads without the vacuum being altered. This significantly reduces process time and preserves the pump heads.
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors

**VACUUM CONTROL**

**VC 900 Vacuum Control Unit**
- Control of the vacuum application
- Separate control unit with pressure sensors and two-step controlled valve to be placed independently from the operating unit
- Easy to use

**ECONOMICAL**

**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
DEGASSING

CONSTANT VACUUM FOR CLEAR RESULTS

HIGH-PERFORMANCE

N 816.3 KT.18 Diaphragm Vacuum Pump
- Flow rate 0.96 m³/h / Ultimate vacuum 20 mbar abs.
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

N 938.50 KT.18 Diaphragm Vacuum Pump
- Flow rate 1.8 m³/h / Ultimate vacuum 15 mbar abs.
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump
- Flow rate 1.2 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/ or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.

SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump
- Flow rate 1.26 m³/h / Ultimate vacuum 2 mbar abs.
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process.
FILTRATION/SPE
RELIABLE VACUUM FOR CLEAN RESULTS. COMPACT, POWERFUL, FAST.

SMALL AND FOR (ALMOST) ANY USE

N 96 Mini Diaphragm Vacuum Pump
- Flow rate 0.4 m³/h / Ultimate vacuum < 130 mbar abs.
- Extremely low footprint
- Integrated rotational speed control
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

N 816.3 KT.18 and N 816.1.2 KT.18 Diaphragm Vacuum Pump
- Flow rate up to 1.8 m³/h / Ultimate vacuum up to 20 mbar abs.
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

N 938.50 KT.18 Diaphragm Vacuum Pump
- Flow rate 1.8 m³/h / Ultimate vacuum 15 mbar abs.
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

N 840 G Diaphragm Vacuum Pump
- Flow rate 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.
FLUID ASPIRATION

RELIABLE VACUUM WITH PROCESS-SPECIFIC FLOW RATES

LABOPORT®

SMALL AND FOR (ALMOST) ANY USE

N 96 Mini Diaphragm Vacuum Pump
- Flow rate 0.4 m³/h / Ultimate vacuum < 130 mbar abs.
- Extremely low footprint
- Integrated rotational speed control
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

LABOPORT®

HIGH-PERFORMANCE

N 816.3 KT.18 Diaphragm Vacuum Pump
- Flow rate 0.96 m³/h / Ultimate vacuum 20 mbar abs.
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

LABOPORT®

FAST

N 938.50 KT.18 Diaphragm Vacuum Pump
- Flow rate 1.8 m³/h / Ultimate vacuum 15 mbar abs.
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

LABOPORT®

CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump
- Flow rate 1.2 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.
METERING AND TRANSFERRING LIQUIDS

PRECISE, SAFE AND CLEAN HANDLING
OF NEUTRAL AND AGGRESSIVE LIQUIDS

LIQUIPORT®

- **NF 100 and NF 300 Chemically-resistant Diaphragm Liquid Pump**
  - Flow rate from 0.2 up to 3 l/min / Pressure head 10 mWg, suction head 3 mWg
  - Self priming, dry running
  - Pump heads available in your choice of PP, PVDF or PTFE – diaphragms available in PTFE, valves in FFKM
  - Pressure head also available for 40 mWg on request
  - Flow rate can either be set manually (Version S) or both manually and via an external control device (Version RC)

SIMDOS®

- **SIMDOS® 02 and SIMDOS® 10 Chemically-resistant Diaphragm Liquid Pump**
  - Flow rate from 0.03 up to 100 ml/min / Pressure head max. 6 bar, suction head 2 mWg and 3 mWg respectively
  - Pump heads available in your choice of PP, PVDF, PTFE or stainless steel – diaphragms available in FFKM or PTFE-coated respectively PTFE-coated only (SIMDOS 10), valves in FFKM
  - Flow rate can either be set manually (Version S) or both manually and via an external control device as well as with interface RS 232 (Version RCP)
  - Additional safety diaphragm for maximum security
  - Easy exchange of the transfer diaphragm by activating the maintenance command in the operating program
GEL DRYING

OPTIMUM RESULTS ACHIEVED THANKS TO CHEMICAL RESISTANCE AND FULLY VARIABLE VACUUM

CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump

- Flow rate 1.2 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX-compliant in accordance with II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.

SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate 1.26 m³/h / Ultimate vacuum 2 mbar abs.
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process.
LABORPORT®

CENTRIFUGAL CONCENTRATION

PRECISE, HIGH-PERFORMANCE VACUUM FOR RAPID, GENTLE TREATMENT OF SAMPLES

SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate 1.26 m³/h / Ultimate vacuum 2 mbar abs.
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process.

CHEMICALLY RESISTANT

N 840 G Diaphragm Vacuum Pump

- Flow rate 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors
- ATEX-compliant in accordance with II 2/- G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- Expandable: Separators and/or condensers can be purchased individually at any time and easily fitted, enabling users to build their own customized vacuum system

Tip: When combined with the VC 900 vacuum control unit and the connection cable, the rotational speed is controlled in accordance with the requirements of the process. Ideal for combining with all common vacuum controllers with valve control.

A POWERFUL PACKAGE

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 3.6 m³/h / Ultimate vacuum 4 mbar abs.
- Integrated KNF self-drying system ensures that condensate is quickly removed from the pump heads without the vacuum being altered. This significantly reduces process time and preserves the pump heads.
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors
TRIED AND TESTED

N 820.3 FT.40.18 and N 840.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate up to 2.04 m³/h / Ultimate vacuum 10 mbar abs.
- Integrated KNF self-drying system ensures that condensate is quickly removed from the pump heads without the vacuum being altered. This significantly reduces process time and preserves the pump heads.
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors

A POWERFUL PACKAGE

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 3.6 m³/h / Ultimate vacuum 4 mbar abs.
- Integrated KNF self-drying system ensures that condensate is quickly removed from the pump heads without the vacuum being altered. This significantly reduces process time and preserves the pump heads.
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors

VACUUM OVEN
OUTSTANDING CHEMICAL AND CONDENSATE COMPATIBILITY WITH FAST EVACUATION OF LARGE VAPOR QUANTITIES
MULTI-USER VACUUM SYSTEMS

INEXPENSIVE, SPACE-SAVING SOLUTIONS FOR SUPPLYING VACUUM TO DIFFERENT APPLICATIONS

QUIET

SC 950 Vacuum Pump System
- Flow rate 3 m³/h / Ultimate vacuum 2 mbar abs.
- Remote-controlled operation for safety when mounted in laboratory furniture
- Automated, precise boiling point recognition and control
- Speed-controlled
- Integrated gas ballast valve

VACUUM CONTROL

VC 900 Vacuum Control Unit
- Control of the vacuum application
- Separate control unit with pressure sensors and two-step controlled valve to be placed independently from the operating unit
- Easy to use
### APPLICATION

<table>
<thead>
<tr>
<th>LABOPORT®</th>
<th>LABOPORT®</th>
<th>LABOPORT®</th>
<th>LABOPORT®</th>
<th>N 320 G</th>
<th>LABOPORT®</th>
<th>LABOPORT® SD</th>
<th>LABOPORT® SD</th>
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<th>VC 900</th>
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<tbody>
<tr>
<td>N 816.3 KT.18</td>
<td>N 816.1.2 KT.18</td>
<td>N 818.50 KT.18</td>
<td>N 938.50 KT.18</td>
<td>N 920 G</td>
<td>N 842.3 FT.18</td>
<td>N 820.3 FT.40.18</td>
<td>N 840.3 FT.40.18</td>
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### Technical Data

<table>
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<tr>
<th>Filter rate (m³/h) at atm. pressure</th>
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<th>1.8</th>
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<th>1.2</th>
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<tr>
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<td>&lt;130</td>
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<td>+5 ... +40 °C</td>
<td>+5 ... +40 °C</td>
<td>+5 ... +40 °C</td>
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### Materials

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<th>Pump head</th>
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### Accessories

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<td>Column fixture</td>
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<td>Fine control valve with vacuum gauge</td>
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<td>Small flange, stainless steel</td>
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<td>Connection cable to N 520 G interface</td>
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<td>Connection cable to N 820 G/N 840 G interface</td>
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## TECHNICAL DATA

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<thead>
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<th>Application</th>
<th>LABOPORT® N 820 G</th>
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<td>Distillation</td>
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<td>Vacuum oven</td>
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<td>Multi-user vacuum systems</td>
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<tr>
<td>Centrifugal concentration</td>
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### Flow rate (m³/h) at atm. pressure
- 1.2
- 2.04

### Operating pressure (bar)
- 0.1
- 0.1

### Hose connections (mm)
- ID 9.5-8, PVDF

### Permissible media and ambient temperature
- +5 … +40 °C

### Weight (kg)
- 8.8
- 11.3

### Dimensions W x H x D (mm)
- 163 x 220 x 259
- 177 x 240 x 289

### Pump head
- PTFE
- PTFE

### Diaphragm
- PTFE-coated
- PTFE-coated

### Valves
- FFPM
- FFPM

## ATEX key for LABOPORT® N 820 G and N 840 G and the transferable, explosive gases and vapors:

<table>
<thead>
<tr>
<th>Class</th>
<th>IIA</th>
<th>IIB</th>
<th>IIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>acetone, ammonia, benzene (pure), acetic acid, ethane, ethyl acetate, carbon dioxide, methanol, propane, toluene, ethyl alcohol, n-butane, n-butyralcohol, n-hexane, gasoline, diesel fuel, aviation fuel, fuel oil, n-hexane</td>
<td></td>
<td></td>
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<tr>
<td>T2</td>
<td>acetylene, ethene, hydrogen</td>
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<tr>
<td>T3</td>
<td>methane</td>
<td>ethene</td>
<td>hydrogen</td>
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## TECHNICAL DATA

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<tr>
<th>APPLICATION</th>
<th>SC 900 G</th>
<th>SC 950</th>
<th>LABOPORT® SC 820</th>
<th>LABOPORT® SC 840</th>
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<tbody>
<tr>
<td>Filtration</td>
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<td>SPE</td>
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<tr>
<td>Degassing</td>
<td></td>
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<tr>
<td>Fluid aspiration</td>
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<tr>
<td>Gel drying</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Rotary evaporation</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Distillation</td>
<td></td>
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</tr>
<tr>
<td>Vacuum oven</td>
<td></td>
<td></td>
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<tr>
<td>Multi-user vacuum systems</td>
<td></td>
<td></td>
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<tr>
<td>Centrifugal concentration</td>
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<td></td>
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<tr>
<td>Metering/Transferring liquids</td>
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<td></td>
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<td>Flow rate (m³/h) at atm. pressure</td>
<td>1.26</td>
<td>3</td>
<td>1.2</td>
<td>2.04</td>
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<tr>
<td>Ultimate vacuum (mbar abs.)</td>
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<td>Hose connections (mm)</td>
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<td>pneumatic: ID 10</td>
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<td>exhaust gas: ID 8</td>
<td>exhaust gas: ID 8</td>
<td>exhaust gas: ID 8</td>
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<tr>
<td>Permissible media and ambient temperature</td>
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<td>14.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
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<td>14.5</td>
<td>16.0</td>
<td>19.3</td>
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<tr>
<td>Dimensions W x H x D (mm)</td>
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<td>246 x 487 x 313</td>
<td>289 x 506 x 357</td>
<td>289 x 506 x 417</td>
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<tr>
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<tr>
<td>Pump head</td>
<td>PPS</td>
<td>PPS</td>
<td>PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>PTFE-coated</td>
<td>PTFE-coated</td>
<td>PTFE-coated</td>
<td>PTFE-coated</td>
</tr>
<tr>
<td>Valves</td>
<td>FFPM</td>
<td>FFPM</td>
<td>FFPM</td>
<td>FFPM</td>
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<tr>
<td>Coolant valve – G 1/2, ID 8</td>
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<tr>
<td>Column fixture</td>
<td>Order no. 117121</td>
<td>Order no. 117121</td>
<td>Order no. 046075</td>
<td>Order no. 046075</td>
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<tr>
<td>Wall fixture</td>
<td>Order no. 120130</td>
<td>Order no. 120130</td>
<td>Order no. 120130</td>
<td>Order no. 120130</td>
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<tr>
<td>Charging station</td>
<td>Order no. 129478</td>
<td>Order no. 129478</td>
<td>Order no. 129478</td>
<td>Order no. 129478</td>
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</table>
### TECHNICAL DATA

#### SIMDOS® 10

Applications:
- SPE
- Degassing
- Fluid aspiration
- Rotary evaporation
- Distillation
- Vacuum oven
- Multi-user vacuum systems
- Centrifugal concentration
- Metering/Transferring liquids

<table>
<thead>
<tr>
<th>Flow rate (ml/min) with water at 20 °C and zero pressure head</th>
<th>0.03 – 20</th>
<th>1 – 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate (l/min) with water at 20 °C and zero pressure head</td>
<td>0.2 – 1.3</td>
<td>0.5 – 3.0</td>
</tr>
<tr>
<td>Operating pressure (bar)</td>
<td>6 6</td>
<td>1.14 with LIQUIPORT® NF 1.100</td>
</tr>
<tr>
<td>Hose connections (mm)</td>
<td>ID 6/OD 10 ID 6/OD 10 ID 12</td>
<td></td>
</tr>
<tr>
<td>Permissible media and ambient temperature:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +20 °C</td>
<td>Media temp.: +5 – +20 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +40 °C</td>
<td>Media temp.: +5 – +40 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +60 °C</td>
<td>Media temp.: +5 – +60 °C</td>
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</tr>
<tr>
<td>Weight (kg)</td>
<td>0.9</td>
<td>9.1</td>
</tr>
<tr>
<td>Dimensions W x H x D (mm)</td>
<td>93 x 144 x 150</td>
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</tbody>
</table>

#### LIQUIPORT® NF 100

<table>
<thead>
<tr>
<th>Flow rate (ml/min) with water at 20 °C and zero pressure head</th>
<th>0.03 – 20</th>
<th>1 – 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate (l/min) with water at 20 °C and zero pressure head</td>
<td>0.2 – 1.3</td>
<td>0.5 – 3.0</td>
</tr>
<tr>
<td>Operating pressure (bar)</td>
<td>6 6</td>
<td>1.14 with LIQUIPORT® NF 1.100</td>
</tr>
<tr>
<td>Hose connections (mm)</td>
<td>ID 6/OD 10 ID 6/OD 10 ID 12</td>
<td></td>
</tr>
<tr>
<td>Permissible media and ambient temperature:</td>
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<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +20 °C</td>
<td>Media temp.: +5 – +20 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +40 °C</td>
<td>Media temp.: +5 – +40 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +60 °C</td>
<td>Media temp.: +5 – +60 °C</td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.9</td>
<td>9.1</td>
</tr>
<tr>
<td>Dimensions W x H x D (mm)</td>
<td>93 x 144 x 150</td>
<td>93 x 144 x 150</td>
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</tbody>
</table>

#### LIQUIPORT® NF 300

<table>
<thead>
<tr>
<th>Flow rate (ml/min) with water at 20 °C and zero pressure head</th>
<th>0.03 – 20</th>
<th>1 – 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate (l/min) with water at 20 °C and zero pressure head</td>
<td>0.2 – 1.3</td>
<td>0.5 – 3.0</td>
</tr>
<tr>
<td>Operating pressure (bar)</td>
<td>6 6</td>
<td>1.14 with LIQUIPORT® NF 1.100</td>
</tr>
<tr>
<td>Hose connections (mm)</td>
<td>ID 6/OD 10 ID 6/OD 10 ID 12</td>
<td></td>
</tr>
<tr>
<td>Permissible media and ambient temperature:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +20 °C</td>
<td>Media temp.: +5 – +20 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +40 °C</td>
<td>Media temp.: +5 – +40 °C</td>
<td></td>
</tr>
<tr>
<td>Ambient temp.: +5 – +60 °C</td>
<td>Media temp.: +5 – +60 °C</td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>0.9</td>
<td>9.1</td>
</tr>
<tr>
<td>Dimensions W x H x D (mm)</td>
<td>93 x 144 x 150</td>
<td>93 x 144 x 150</td>
</tr>
</tbody>
</table>

### APPLICATION

- Filtration
- SPE
- Degassing
- Fluid aspiration
- Rotary evaporation
- Distillation
- Vacuum oven
- Multi-user vacuum systems
- Centrifugal concentration
- Metering/Transferring liquids

### TECHNICAL DATA

#### Rotary evaporation

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating bath: Heating bath temperature (°C)</td>
<td>20 – 180</td>
</tr>
<tr>
<td>Working temperature range (°C)</td>
<td>-10 – +40</td>
</tr>
<tr>
<td>Coolant supply parameters (condenser):</td>
<td></td>
</tr>
<tr>
<td>- Permissible pressure (bar)</td>
<td>3</td>
</tr>
<tr>
<td>- Permissible temperature (°C)</td>
<td>-15 – +20</td>
</tr>
<tr>
<td>- Coolant-coated surface (car)</td>
<td>1230</td>
</tr>
<tr>
<td>Cooling capacity (W)</td>
<td>250</td>
</tr>
<tr>
<td>Parameters of evaporation flask:</td>
<td></td>
</tr>
<tr>
<td>- Size of evaporation flask (ml)</td>
<td>50 – 3000</td>
</tr>
<tr>
<td>- Rotational speed of evaporation flask (1/min)</td>
<td>25 – 250</td>
</tr>
<tr>
<td>- Length of stroke (mm)</td>
<td>150</td>
</tr>
<tr>
<td>- Lifting speed (mm/s)</td>
<td>30</td>
</tr>
<tr>
<td>Temperature stability (°C)</td>
<td>± 0.5</td>
</tr>
<tr>
<td>Filling volume (l)</td>
<td>1.7 – 2.6</td>
</tr>
</tbody>
</table>

#### ACCESORIES

- Protective cover heating bath
- Pump head
- Diaphragm
- Valves
- Column fixture
- Foot switch
- In-line filters

### MATERIAL

- Pump head: PP, PVDF, PTFE or stainless steel
- Diaphragm: FFKM or PTFE-coated
- Valves: FFKM
- Column fixture: Order no. 160474
- Foot switch: Order no. 155872
- In-line filters: FS 60, FS 25, FS 60 T PTFE, FS 60 X PEEK, FS 25 T PTFE, FS 60 X PEEK

### ACCESSORIES

- Protective cover heating bath
- Refill valve
- Coolant valve
- Vacuum seal

### TECHNICAL DATA

#### RC 960

<table>
<thead>
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<tr>
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<tr>
<td>Heating bath: Heating bath temperature (°C)</td>
<td>20 – 180</td>
</tr>
<tr>
<td>Working temperature range (°C)</td>
<td>-10 – +40</td>
</tr>
<tr>
<td>Coolant supply parameters (condenser):</td>
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</tr>
<tr>
<td>- Permissible pressure (bar)</td>
<td>3</td>
</tr>
<tr>
<td>- Permissible temperature (°C)</td>
<td>-15 – +20</td>
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<tr>
<td>- Coolant-coated surface (car)</td>
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<tr>
<td>Cooling capacity (W)</td>
<td>250</td>
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<tr>
<td>Parameters of evaporation flask:</td>
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<tr>
<td>- Size of evaporation flask (ml)</td>
<td>50 – 3000</td>
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<tr>
<td>- Rotational speed of evaporation flask (1/min)</td>
<td>25 – 250</td>
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<tr>
<td>- Length of stroke (mm)</td>
<td>150</td>
</tr>
<tr>
<td>- Lifting speed (mm/s)</td>
<td>30</td>
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<tr>
<td>Temperature stability (°C)</td>
<td>± 0.5</td>
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<tr>
<td>Filling volume (l)</td>
<td>1.7 – 2.6</td>
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</tbody>
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#### ACCESORIES

- Protective cover heating bath
- Pump head
- Diaphragm
- Valves
- Column fixture
- Foot switch
- In-line filters

### MATERIAL

- Pump head: PP, PVDF, PTFE or stainless steel
- Diaphragm: FFKM or PTFE-coated
- Valves: FFKM
- Column fixture: Order no. 160474
- Foot switch: Order no. 155872
- In-line filters: FS 60, FS 25, FS 60 T PTFE, FS 60 X PEEK, FS 25 T PTFE, FS 60 X PEEK

### ACCESSORIES

- Protective cover heating bath
- Refill valve
- Coolant valve
- Vacuum seal

### TECHNICAL DATA

#### RC 600

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<td>- Permissible temperature (°C)</td>
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<td>Cooling capacity (W)</td>
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<td>Parameters of evaporation flask:</td>
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<td>- Rotational speed of evaporation flask (1/min)</td>
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</tr>
<tr>
<td>- Lifting speed (mm/s)</td>
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</tr>
<tr>
<td>Temperature stability (°C)</td>
<td>± 0.5</td>
</tr>
<tr>
<td>Filling volume (l)</td>
<td>1.7 – 2.6</td>
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</tbody>
</table>

#### ACCESORIES

- Protective cover heating bath
- Pump head
- Diaphragm
- Valves
- Column fixture
- Foot switch
- In-line filters

### MATERIAL

- Pump head: PP, PVDF, PTFE or stainless steel
- Diaphragm: FFKM or PTFE-coated
- Valves: FFKM
- Column fixture: Order no. 160474
- Foot switch: Order no. 155872
- In-line filters: FS 60, FS 25, FS 60 T PTFE, FS 60 X PEEK, FS 25 T PTFE, FS 60 X PEEK

### ACCESSORIES

- Protective cover heating bath
- Refill valve
- Coolant valve
- Vacuum seal

### TECHNICAL DATA

#### C-940

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<td>Heating bath: Heating bath temperature (°C)</td>
<td>20 – 180</td>
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<tr>
<td>Working temperature range (°C)</td>
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</tr>
</tbody>
</table>

#### ACCESORIES

- Protective cover heating bath
- Pump head
- Diaphragm
- Valves
- Column fixture
- Foot switch
- In-line filters

### MATERIAL

- Pump head: PP, PVDF, PTFE or stainless steel
- Diaphragm: FFKM or PTFE-coated
- Valves: FFKM
- Column fixture: Order no. 160474
- Foot switch: Order no. 155872
- In-line filters: FS 60, FS 25, FS 60 T PTFE, FS 60 X PEEK, FS 25 T PTFE, FS 60 X PEEK

### ACCESSORIES

- Protective cover heating bath
- Refill valve
- Coolant valve
- Vacuum seal
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Liquid Pumps  KNF Flodos AG
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