

KNF LABORATORY EQUIPMENT KNOWING WHAT COUNTS





COMPELLING ADVANTAGES

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



LABOPORT® N 820 G



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.



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

Expandable



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.

■ 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.

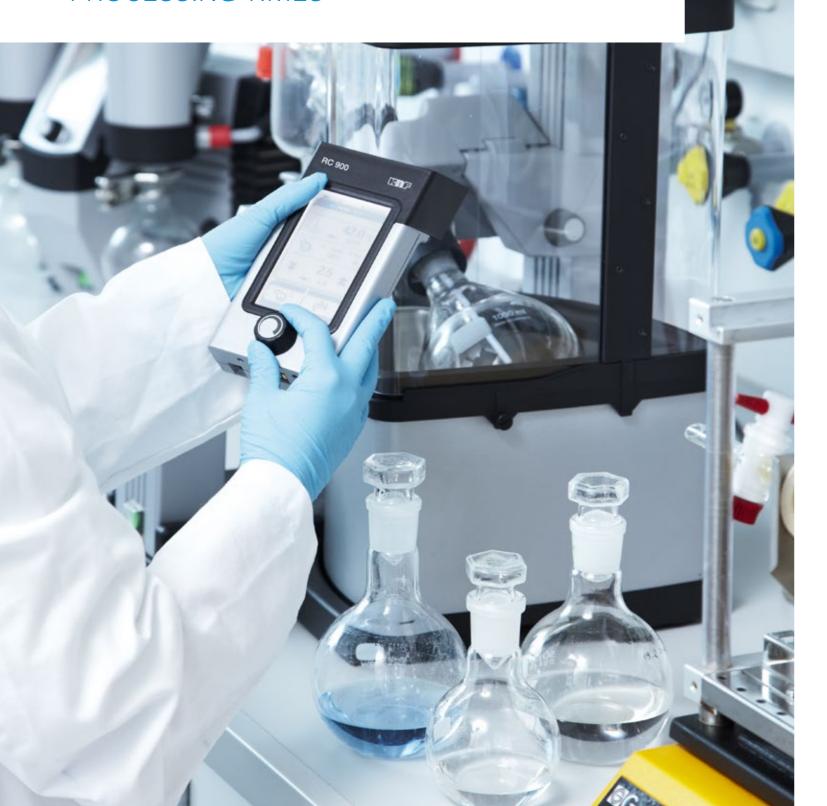


3-color status display

The changing color display allows the operational status to be ascertained at a glance.

ROTARY EVAPORATION/ DISTILLATION

REPRODUCIBLE RESULTS WITH SHORT PROCESSING TIMES





SUPERIOR PERFORMANCE SYSTEM

RC 900 Rotary Evaporator

- 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, spillfree 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 straight forward 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



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.

ROTARY EVAPORATION / DISTILLATION ROTARY EVAPORATION / DISTILLATION



DESIGNED FOR ACADEMIA LABS

RC 600 Rotary Evaporator

- Operating unit with all functions operated centrally via a membrane keypad providing exeptional 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 straight forward to detach by turning the clamping nut. The cooling condenser is also extremely easy to clean
- Fixed tube guide



SC 920 G

SC 950



SC 920 G and SC 950 Vacuum Pump System

- Flow rate up to 3 m³/h / Ultimate vacuum 2 mbar abs.
- Quiet operation

QUIET

- 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

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.







LABOPORT®



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

ROTARY EVAPORATION / DISTILLATION

ROTARY EVAPORATION / DISTILLATION

LABOPORT®



N 840 G

CHEMICALLY RESISTANT

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.

LABOPORT®

10



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



- 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

- Compact design, small footprint
- Splash-proof membrane keypad
- Easy to fill



LABOPORT®



LABOPORT®



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

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

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 **(Ex) 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.





LABOPORT®



LABOPORT®



LABOPORT®



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

HIGH-PERFORMANCE

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

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

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

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®



RELIABLE

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 60 mWg on request
- Flow rate can either be set manually (Version S) or both manually and via an external control device (Version RC)

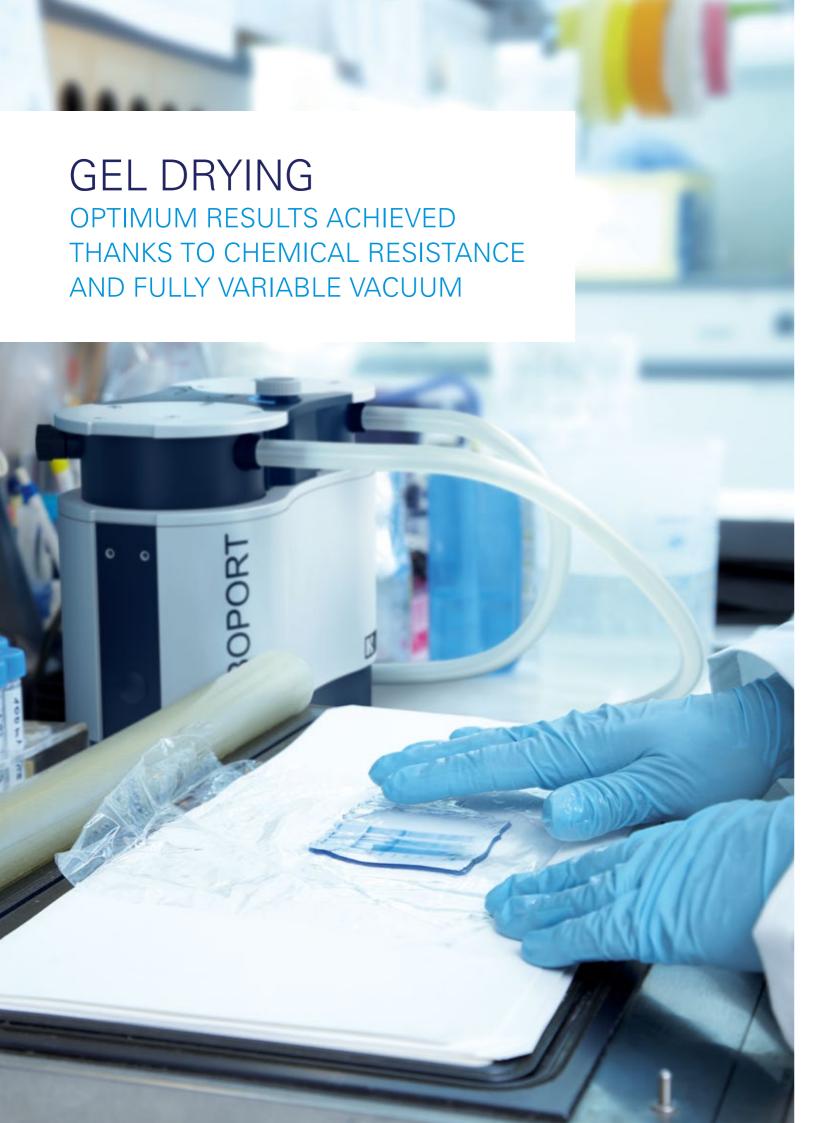
SIMDOS®



PRECISE

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



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
- 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.



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.

LABOPORT®



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
- 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.

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



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

LABOPORT® SD



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

MULTI-USER VACUUM SYSTEMS

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





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
- Automatated, 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

		LABOPORT® N 96	LABOPORT® N 816.3 KT.18	LABOPORT® N 816.1.2 KT.18	LABOPORT® N 938.50 KT.18	N 920 G	LABOPORT® N 842.3 FT.18	LABOPORT® SD N 820.3 FT.40.18	LABOPORT® SD N 840.3 FT.40.18	N 860.3 FT.40.18	VC 900
		N 30	N 010.5 K1.10	N 010.1.2 K1.10	14 330.30 K1.10	14 320 G	14 042.3 1 1.10	14 020.3 1 1.40.10	14 040.3 1 1.40.10	14 000.5 1 1.40.10	VC 300
ATION	Filtration	х	х	Х	х						
	Filtration SPE Degassing Fluid aspiration	х	Х		Х						
1 22	Degassing		Х		х	Х					
AP	Fluid aspiration	х	Х		Х						
	Gel drying					х					
	Rotary evaporation					Х	Х			Х	X
	Distillation					Х	Х			Х	X
	Vacuum oven							х	х	Х	
	Multi-user vacuum systems										X
	Centrifugal concentration					Х				Х	
	Metering/Transferring liquids										
ITA	Flow rate (m³/h) at atm. pressure	0.4	0.96	1.8	1.8	1.26	2.04	1.2	2.04	3.6	
10/	Ultimate vacuum (mbar abs.)	<130	20	160	15	2	2	10	10	4	
CA	Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5	1	1	1	1	
TECHNICAL DATA	Hose connections (mm)	NPT 1/8 – ID6, PP	ID 6	ID 6	ID 10	ID 10	ID 10	ID 10	ID 10	ID 12	pneumatic: ID 10 coolants: ID 10 inert gas: ID 4
	Permissible media and ambient temperature	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	Media temp.: + 5 +40 °C Ambient temp.: +10 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+10 +40 °C
	Weight (kg)	1.3	3.95	3.95	6.8	8.5	13.4	9.6	12.9	14.8	1.2
	Dimensions W x H x D (mm)	156 x 119 x 75	90 x 141 x 361	102 x 141 x 361	110 x 212 x 317	158 x 226 x 324	167 x 228 x 341	177 x 220 x 312	189 x 239 x 341	291 x 278 x 331	101 x 181 x 67
IAL	Pump head	PPS	PPS	PPS	PPS	PPS	PTFE	PTFE	PTFE	PTFE	
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
Σ	Valves	FKM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	
ES	Silencer		Order no. 000345		Order no. 007006	Order no. 007006					
ACCESSORIES	Hose connector		G1/8 ID6 PVDF Order no. 123363 G1/8 ID6 PA Order no. 000360 G1/8 ID8 PA Order no. 004975		G1/8 ID10 PVDF Order no. 112004						
	Column fixture	Order no. 323484									
	Fine control valve with vacuum gauge		Order no. 057830		Order no. 112432	Order no. 112432					
	Small flange, stainless steel					Order no. 046625					
	Connection cable to N 920 G interface										Order no. 307757 (2 m) Order no. 307758 (5 m)
	Connection cable to N 820 G/N 840 G interface										Order no. 323829 (2 m)

		LABOPORT®	LABOPORT®		
		N 820 G	N 840 G		
		(a) II 2/-G IIB+H2 T3 internal atmosphere only	(Ex) II 2/-G IIB+H2 T3 internal atmosphere only		
Z	Filtration		Х		
ATIO	SPE				
APPLICATION	Degassing	X			
AP	Fluid aspiration	X			
	Gel drying	Х			
	Rotary evaporation	Х	Х		
	Distillation				
	Vacuum oven				
	Multi-user vacuum systems				
	Centrifugal concentration		X		
	Metering/Transferring liquids				
MA.	Flow rate (m³/h) at atm. pressure	1.2	2.04		
TECHNICAL DATA	Ultimate vacuum (mbar abs.)	6	6		
IICA	Operating pressure (bar)	0.1	0.1		
E	Hose connections (mm)	ID 9.5-8, PVDF	ID 9.5-8, PVDF		
=	Permissible media and ambient temperature	+5 +40 °C	+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		
MAL	Pump head	PTFE	PTFE		
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated		
Z	Valves	FFPM	FFPM		

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

	€ II 2/-G IIB+H2 T3 INTERNAL ATMOSPHERE ONLY					
	T1	T2	T3			
	methane					
IIA	acetone, ammonia, benzene (pure), acetic acid, ethane, ethyl acetate, carbon oxide, methanol, propane, toluene	ethyl alcohol, n-butane, n-butyl alcohol	gasolines, diesel fuel, aviation fuel, fuel oils, n-hexane			
IIB	town gas	ethene				
IIC	hydrogen		-			

				LABOPORT®	LAB0P0RT®	
		SC 920 G	SC 950	SC 820	SC 840	
APPLICATION	Filtration					
	SPE					
	Degassing					
	Fluid aspiration					
	Gel drying					
	Rotary evaporation	x	x	X	Х	
	Distillation	X	X	X	X	
	Vacuum oven					
	Multi-user vacuum systems		X			
	Centrifugal concentration					
	Metering/Transferring liquids					
ΙTΑ	Flow rate (m³/h) at atm. pressure	1.26	3	1.2	2.04	
L D/	Ultimate vacuum (mbar abs.)	2	2	8	8	
ICA	Operating pressure (bar)			1	1	
TECHNICAL DATA	Hose connections (mm)	pneumatic: ID 10 coolants: ID 8 inert gas: ID 6	pneumatic: ID 10 coolants: ID 8 inert gas: ID 4	pneumatic: ID 10 coolants: ID 8	pneumatic: ID 10 coolants: ID 8	
	Permissible media and ambient temperature	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	
	Weight (kg)	15.2	14.5	16.0	19.3	
	Dimensions W x H x D (mm)	366 x 423 x 294	246 x 487 x 313	289 x 506 x 397	289 x 506 x 417	
IAL	Pump head	PPS	PPS	PTFE	PTFE	
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
Ž	Valves	FFPM	FFPM	FFPM	FFPM	
IES	Coolant valve – G 1/2, ID 8	Order no. 117121	Order no. 117121	Order no. 045075	Order no. 045075	
ACCESSORIES	Column fixture	for remote control Order no. 120132	for remote control Order no. 120132			
	Wall fixture	for remote control Order no. 120130	for remote control Order no. 120130			
	Charging station	Order no. 129478	Order no. 129478			

		SIMDOS® 02	SIMDOS® 10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
NO	Filtration				
APPLICATION	SPE				
PLIC	Degassing				
AP	Fluid aspiration				
	Gel drying				
	Rotary evaporation				
	Distillation				
	Vacuum oven				
	Multi-user vacuum systems				
	Centrifugal concentration				
	Metering/Transferring liquids	X	х	X	х
DATA	Flow rate (ml/min) with water at 20 °C and zero pressure head	0.03 – 20	1 – 100		
TECHNICAL DATA	Flow rate (I/min) with water at 20 $^{\circ}\text{C}$ and zero pressure head			0.2 – 1.3	0.5 – 3.0
TECH	Operating pressure (bar)	6	6	1 (6 with LIQUIPORT® NF 1.100)	1 (6 with LIQUIPORT® NF 1.300)
	Suction head (mWg)	2	3	3	3
	Hose connections (mm)	ID 1.6/OD 3.2	ID 4/0D 6	ID 8	ID 12
	Permissible media and ambient temperature	Ambient temp.: +5 +40 °C Media temp.: +5 +80 °C	Ambient temp.: +5 +40 °C Media temp.: +5 +80 °C	Ambient temp.: +5 +40 °C Media temp.: +5 +80 °C	Ambient temp.: +5 +40 °C Media temp.: +5 +80 °C
	Weight (kg)	0.9	0.9	1.0	1.5
	Dimensions W x H x D (mm)	93 x 144 x 150	93 x 144 x 150	99 x 177 x 130	104 x 188 x 160
MATERIAL	Pump head	PP, PVDF, PTFE or stainless steel	PP, PVDF, PTFE or stainless steel	PP, PVDF or PTFE	PP, PVDF or PTFE
AAT	Diaphragm	FFKM or PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
_	Valves	FFKM	FFKM	FFKM	FFKM
ES	Column fixture	Order no. 160474	Order no. 160474	Order no. 160474	Order no. 160474
SOR	Wall fixture	Order no. 160473	Order no. 160473	Order no. 160473	Order no. 160473
ACCESSORIES	Foot switch for version RC (RC = flow rate can be set both manually and via an external control device)	Order no. 155872	Order no. 155872	Order no. 155872	Order no. 155872
	In-line filters	FS 60 T PVDF Mesh opening 70 µm Order no. 165210 FS 60 X PEEK Mesh opening 35 µm Order no. 165212	FS 25 T PVDF Mesh opening 70 µm Order no. 165211 FS 25 X PEEK Mesh opening 35 µm Order no. 165213		



Column fixture



Wall fixture





Foot switch



In-line filters FS 60



In-line filters FS 25

34 35

RC 900

20 - 180

3

-15 - +20

1230

50 - 3000

25 - 250

150

38

9.1

431 x 464 x 447

487 x 823 x 447

Order no. 127204

Order no. 300639

Order no. 300853 Order no. 113046

NOTATION Rotary evaporation

Heating bath: Heating bath temperature (°C)
Working temperature range (°C)

Coolant supply parameters (condenser):

- Permissible pressure (bar)

- Permissible temperature (°C)

- Coolant-coated surface (cm²)

- Coolant-coated surface (cm²)

Parameters of evaporation flask: - Size of evaporation flask (ml)

- Rotational speed of evporation flask (1/min)

Cooling capacity (W)

- Length of stroke (mm)

- Lifting speed (mm/s)

Filling volume (I)

Cooling agent Temperature control

Weight (kg)

- with glass

Temperature stability (°C)

Dimensions W x H x D (mm) - without glass (footprint)

Protective cover heating bath
Refill valve
Coolant valve
Vacuum seal

RC 600

20 - 180

3

-15 **-** +20

1230

50 - 3000

25 - 280

150

38

431 x 464 x 453

487 x 823 x 453

Order no. 127204

Order no. 300639

Order no. 113046

C 900

-10 - +40

250

± 0,5 1.7 - 2.6

R134a

27

235 x 520 x 400

PID temperature control

eserves the right to make technical changes without notice. Errors and omissions excepted. KNF 01/2020

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.cn@knf.com
www.knf.com.cn

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

Germany KNF Neuberger GmbH 79112 Freiburg Tel. +49 7664 5909 0 info.de@knf.com www.knf.de India KNF Pumps + Systems (India) Pvt. Ltd.
Pimpale Nilakh, Pune 411 027
Tel. +91 82 370 08 923
info.in@knf.com
www.knfpumps.in

Italy KNF Italia S.r.I. 20063 Cernusco s. Naviglio (MI) Tel. +39 02 929 04 91 info.it@knf.com www.knf.it

Japan KNF Japan Co. Ltd. Tokyo 104-0033 Tel. +81 3 3551 7931 info.jp@knf.com 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.fr@knf.com 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 Balterswil Tel. +41 71 973 99 30 info.ch@knf.com www.knf.ch

UK, Ireland KNF Neuberger U.K., Ltd. Witney, Oxfordshire OX28 4FA Tel. +44 1993 77 83 73 info.uk@knf.com 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.de@knf.com www.knf.de Liquid Pumps KNF Flodos AG CH-6210 Sursee info.flodos@knf.com www.knf-flodos.ch

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.sq

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 Balterswil

Tel. +41 71 973 99 30

knf@knf.ch

www.knf.ch

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