

KNF LABORATORY EQUIPMENT KNOWING WHAT COUNTS



KNF LABORATORY EQUIPMENT

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.

$\langle \epsilon_x \rangle$

Expandable

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

HELLO, NEW LABOPORT SYSTEMS!



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 of

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.







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

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.







ROTARY EVAPORATION / DISTILLATION

ROTARY EVAPORATION / DISTILLATION



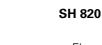
SC 920 G

QUIET

SC 920 G Vacuum Pump System

- Flow rate up to 1,26 m³/h / Ultimate vacuum 2 mbar abs.
- Quiet operation
- 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

LABOPORT®





SH 820 G

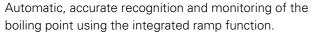
CHEMICALLY RESISTANT AND CONDENSATE COMPATIBILITY

SH 820 G and SH 840 G Vacuum System

- Flow rate up to 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- Vacuum system comprising chemically resistant diaphragm vacuum pump, base plate, condenser and separator
- Integrated gas ballast valve

Possible combinations

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®



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 ⟨ Il 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- High suction speed, particularly in the low vacuum range

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®



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.



ROTARY EVAPORATION / DISTILLATION

ROTARY EVAPORATION / DISTILLATION



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



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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 🐼 II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- High suction speed, particularly in the low vacuum range

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®



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 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

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®

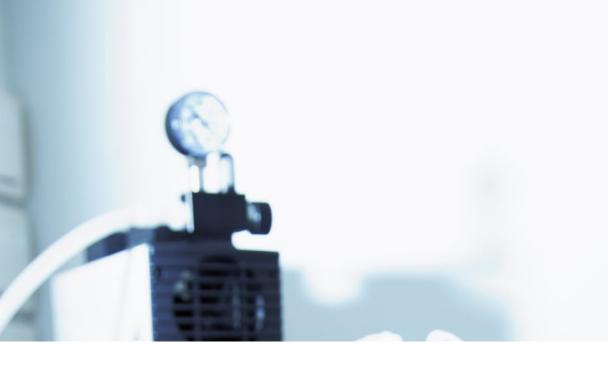


CHEMICALLY RESISTANT

N 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
- High suction speed, particularly in the low vacuum range

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 ② II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- High suction speed, particularly in the low vacuum range

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 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®

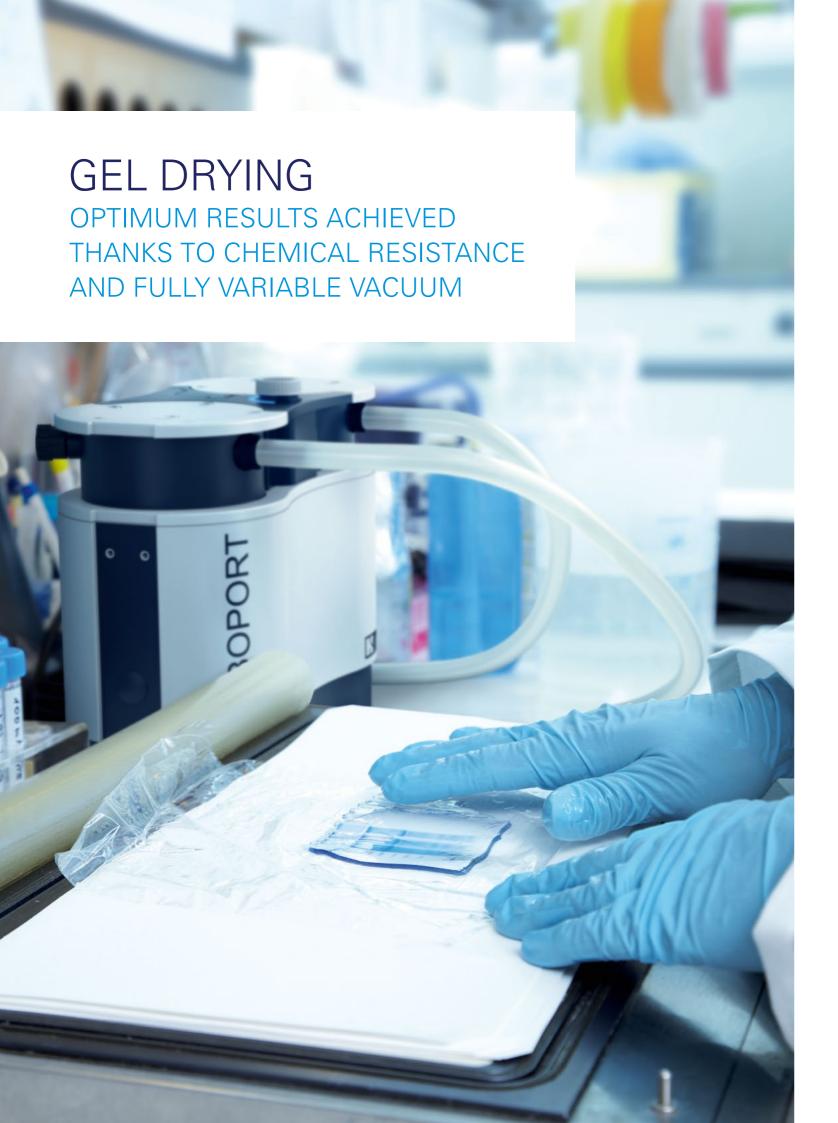




PRECISE

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 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
- High suction speed, particularly in the low vacuum range

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
- ATEX-compliant in accordance with ② II 2/-G IIB+H2 T3 internal atmosphere only
- Integrated gas ballast valve
- 3-color status display for in operation / stand-by / error
- High suction speed, particularly in the low vacuum range

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

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





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

LABOPORT®



- Flancounts out to 2 04 mg2/ls / Lillting at a

SR 820 G and SR 840 G Vacuum System

- Flow rate up to 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- Vacuum system comprising chemically resistant diaphragm vacuum pump, base plate and two separator flasks on suction and pressure side

CHEMICALLY RESISTANT AND CONDENSATE COMPATIBILITY

Integrated gas ballast valve

Possible combinations

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.





MULTI-USER VACUUM SYSTEMS

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





SC 920 G Vacuum Pump System

- Flow rate up to 1,26 m³/h / Ultimate vacuum 2 mbar abs.
- Quiet operation
- 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





SC 920 G

CHEMICALLY RESISTANT AND CONDENSATE COMPATIBILITY

SH 840 G Vacuum System

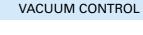
- Flow rate up to 2.04 m³/h / Ultimate vacuum 6 mbar abs.
- Vacuum system comprising chemically resistant diaphragm vacuum pump, base plate, condenser and separator
- Integrated gas ballast valve

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



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
	Filtration	х	х	х	х	
	SPE	X	X			
	Degassing		Х		х	х
	Fluid aspiration	Х	X		х	
APPLICATION	Gel drying					х
	Rotary evaporation					Х
PPL	Distillation					х
A	Vacuum oven					х
	Multi-user vacuum systems					
	Centrifugal concentration					Х
	Metering/Transferring liquids					
	Flow rate (m³/h) at atm. pressure	0.4	0.96	1.8	1.8	1.26
	Ultimate vacuum (mbar abs.)	<130	20	160	15	2
	Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5
TECHNICAL DATA	Hose connections (mm)	NPT 1/8 — ID6, PP	ID 6	ID 6	ID 10	ID 10
TECHNIC	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
	Weight (kg)	1.3	3.95	3.95	6.8	8.5
	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
AL	Pump head	PPS	PPS	PPS	PPS	PPS
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
M	Valves	FKM	FFPM	FFPM	FFPM	FFPM
	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					
	Connection cable to N 820 G/N 840 G interface					

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
X				
Х	х	Х	Х	х
Х			Х	Х
Х	Х	Х	X	Х
			Х	Х
			X	
2.04	1.2	2.04	3.6	
2	10	10	4	
1	1	1	1	
ID 10	ID 10	ID 10	ID 12	pneumatic: ID 10 coolants: ID 10 inert gas: ID 4
+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+10 +40 °C
13.4	9.6	12.9	14.8	1.2
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
PTFE	PTFE	PTFE	PTFE	
PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
FFPM	FFPM	FFPM	FFPM	
	I	1		Order no. 307757 (2 m)
				Order no. 307758 (5 m)

		LABOPORT® N 820 G In 2/-G IIB+H2 T3 internal atmosphere only	LABOPORT® N 840 G Lipin 12/-G IIB+H2 T3 internal atmosphere only
	Filtration		Х
	SPE		
	Degassing	X	Х
_	Fluid aspiration	X	Х
	Gel drying	X	
ICA	Rotary evaporation	X	Х
APPLICATION	Distillation		
	Vacuum oven	Х	Х
	Multi-user vacuum systems		
	Centrifugal concentration		Х
	Metering/Transferring liquids		
	Flow rate (m³/h) at atm. pressure	1.2	2.04
ATA	Ultimate vacuum (mbar abs.)	6	6
/D 7	Operating pressure (bar)	0.1	0.1
TECHNICAL DATA	Hose connections (mm)	ID 9.5-8, PVDF	ID 9.5-8, PVDF
몽	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
IAL	Pump head	PTFE	PTFE
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated
M/	Valves	FFPM	FFPM

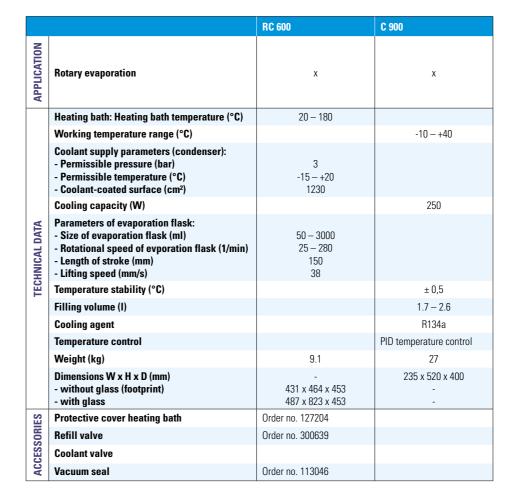
ATEX key for LABOPORT® N 820 G and N 840 G and the transferable, explosive gases and vapors:

	€ II 2/-G IIB+H2 T3 INTERNAL ATMOSPHERE ONLY				
	T1	T2	Т3		
	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® SR 820 G	LABOPORT® SH 820 G	LABOPORT® SR 840 G	LABOPORT® SH 840 G
APPLICATION	Filtration	х		х	
	Vacuum Oven	х		х	
	Degassing			х	
ICA	Fluid aspiration	х			
\PPI	Destillation		Х		X
1	Rotary evaporation		х		X
	Centrifugal concentration	Х		Х	
	Flow rate (m³/h) at atm. pressure	1. 2		2.04	
	Ultimate vacuum (mbar abs.)	6			
ΛTΑ	Operating pressure (bar)	0.1			
L D/	Hose connections (mm)	ID 9.5-8, PVDF			
IICA	Permissible media and ambient temperature	+5+40°C			
TECHNICAL DATA	Integrated gas ballast valve	Yes			
F	Integrated rotational speed control	Yes		ı	1
	Weight (kg)	10.7	11.7	13.1	14.1
	Dimensions W x H x D (mm)	282 x 234 x 260	323 x 416 x 260	299 x 250 x 274	340 x 416 x 274
IAL	Pump head	PTFE			
MATERIAL	Diaphragm	PTFE-coated			
M	Valves	FFPM			
	Separator flask	Order No. 047729			
	High performance condenser with pressure relief valve	-	Order No. 114855	-	Order No. 114855
	Hose connector with O-ring (FPM)	Order No. 323609			
	Hose connector PP (for hose ID10)	Order No. 026237			
	Screw connection cap red, GL18 (for hose connector ID 026237)	Order No. 025980			
ES	Hose connector PP (for hose ID8)	Order No. 025981			
ACCESSORIES	Screw connection cap red, GL14 (for hose connector ID 025981)	Order No. 025982			
CCE	Key for hose connector	Order No. 316279			
1	Connection cable (for combination with VC 900) 2 m	Order No. 323829			
	Connecting cable (for combination with VC 900) 5 m	Order No. 323830			
	Hose-BGR for Separator flask (1x for SH 840 G)	Order No. 323095			
	Hose BGR for high performance condenser (1x for SH 840 G)	Order No. 317157			
	Hose connector Y-piece - ID10	Order No. 026432			

		SC 920 G	LABOPORT® SC 820	LABOPORT® SC 840	
	Filtration				
	SPE				
	Degassing				
Z	Fluid aspiration				
APPLICATION	Gel drying				
LICA	Rotary evaporation	Х	х	X	
APP	Distillation	Х	х	Х	
	Vacuum oven	Х	х	Х	
	Multi-user vacuum systems	Х			
	Centrifugal concentration				
	Metering/Transferring liquids				
	Flow rate (m³/h) at atm. pressure	1.26	1.2	2.04	
	Ultimate vacuum (mbar abs.)	2	8	8	
AT/	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	pneumatic: ID 10 coolants: ID 8	
TECI	Permissible media and ambient temperature	+5 +40 °C	+5 +40 °C	+5 +40 °C	
	Weight (kg)	15.2	16.0	19.3	
	Dimensions W x H x D (mm)	366 x 423 x 294	289 x 506 x 397	289 x 506 x 417	
AL	Pump head	PPS	PTFE	PTFE	
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	
M	Valves	FFPM	FFPM	FFPM	
	Coolant valve – G 1/2, ID 8	Order no. 117121	Order no. 045075	Order no. 045075	
ACCESSORIES	Column fixture	for remote control Order no. 120132			
ACCES	Wall fixture	for remote control Order no. 120130			
,	Charging station	Order no. 129478			

		SIMDOS® 02 FEM 1.02	SIMDOS® 10 FEM 1.10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
	Filtration				
	SPE				
	Degassing				
	Fluid aspiration				
APPLICATION	Gel drying				
ICA	Rotary evaporation				
PPL	Distillation				
A	Vacuum oven				
	Multi-user vacuum systems				
	Centrifugal concentration				
	Metering/Transferring liquids	X	х	x	х
	Flow rate (ml/min) with water at 20 °C and zero pressure head	0.03 – 20	1 – 100		
	Flow rate (I/min) with water at 20 °C and zero pressure head			0.2 – 1.3	0.5 – 3.0
TECHNICAL DATA	Operating pressure (bar)	6	6	1 (4 with LIQUIPORT® NF 1.100)	1 (4 with LIQUIPORT® NF 1.300)
CAL	Suction head (mWg)	2	3	3	3
Ž	Hose connections (mm)	ID 1.6/0D 3.2	ID 4/0D 6	ID 8	ID 12
TEC	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
ATE	Diaphragm	FFKM or PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
Σ	Valves	FFKM	FFKM	FFKM	FFKM
	Column fixture	Order no. 160474	Order no. 160474	Order no. 160474	Order no. 160474
	Wall fixture	Order no. 160473	Order no. 160473	Order no. 160473	Order no. 160473
ORIES	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
ACCESSORIES	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		









Foot switch





Column fixture Wall fixture

In-line filters FS 60 In-line filters FS 25

KNF SALES ORGANIZATION

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