

KNF LABORATORY EQUIPMENT KNOWING WHAT COUNTS



KNF LABORATORY EQUIPMENT COMPELLING ADVANTAGES

KNF is dedicated to countering the challenges of daily lab routines. Our products offer clear advantages: unparalleled performance, ease of use, quiet and intuitive operation, small footprint, and utmost reliability.

Discover lab technology that supports you.

4-5 HELLO, NEW LABOPORT!

- 7 ROTARY EVAPORATION / DISTILLATION
- 13 DEGASSING
- 15 FILTRATION/SPE
- 17 FLUID ASPIRATION
- 19 METERING / TRANSFERRING LIQUIDS
- 21 GEL DRYING
- 23 CENTRIFUGAL CONCENTRATION
- 25 VACUUM OVEN
- 27 MULTI-USER VACUUM SYSTEMS
- 28 34 TECHNICAL DATA

LABOPORT[®] REDESIGNED UNIQUE DESIGN, EASE OF USE



HELLO, NEW LABOPORT SYSTEMS!



Exceptionally small footprint

This impressively compact pump provides the user with increased bench space.

Easy to clean

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

Chemically resistant

All wetted materials are suited for use with aggressive/ corrosive gases.

Integrated gas ballast valve

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Expandable

Separators and/or condensers

can be purchased individually

at any time and easily fitted, enabling users to build their own customized vacuum system.

The valve protects the pump head and shortens processing times – even with high boiling point solvents.

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Portable

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

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Speed-controlled

Manually adjust the pump speed via the control knob or automatically by connecting to KNF's VC 900 vacuum controller.

3-color status display

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

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ROTARY EVAPORATION/ DISTILLATION REPRODUCIBLE RESULTS WITH SHORT PROCESSING TIMES





DESIGNED FOR EVERY DAY USE

RC 600 Rotary Evaporator

- Electric lift for automatic raising and lowering of the evaporation flask
- Central control of all relevant distillation parameters, including rotation speed, bath temperature, and flask depth
- Memory function saves the flask's current immersion depth and rotation speed for easy and reliable process reliability
- Cordless heating bath with heat-indicating diode and integrated pour spout for safe, spill-free emptying
- Convenient, fully adjustable flask angle set via a control knob
- Uncomplicated flask exchange flask simply locks in place — and can be done with one hand
- Efficient, easy-to-clean recirculating condenser and seal attach with secure clamping nut. A dry ice condenser is also available in place of the recirculating condenser.
- External tube guide keeps the benchtop tidy and safe

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.









SC 920 G

LABOPORT®



SH 820 G



SC 920 G Vacuum Pump System

- Vacuum system comprised of chemically resistant diaphragm vacuum pump, vacuum controller, inlet separator, and outlet condenser
- Adjustable flow rate up to 21 l/min, 1.5 torr ultimate vacuum
- Quiet operation
- Automatic, accurate recognition and monitoring of the boiling point
- High recovery rates even with low boiling point solvents
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast
- Speed-controlled

SOLVENT RECOVERY

SH 820 G and SH 840 G Vacuum Pump System

- Vacuum system comprised of chemically resistant diaphragm vacuum pump, base plate, inlet separator, and outlet condenser
- SH 820 G manually adjustable flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- SH 840 G manually adjustable flow rate up to 34 l/min, 4.5 torr ultimate vacuum
- Integrated gas ballast



POSSIBLE CONNECTIONS

Connect the VC 900 Vacuum Controller to control the pump speed/vacuum process of N 920 G, N 820 G, N 840 G vacuum pumps and SH 820 G, SH 840 G vacuum systems. Featuring 4 different operating modes, the VC 900 provides automatic, accurate recognition and monitoring of the boiling point.



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N 820 G and N 840 G Diaphragm Vacuum Pumps

- N 820 G flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- N 840 G flow rate up to 34 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.

ROBUST

UN 842.3 FTP Diaphragm Vacuum Pump

- Flow rate 34 l/min, 1.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- PTFE pump heads combined with PTFE-coated diaphragms are ideal for extremely aggressive/corrosive gases and vapors



SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate up to 21 l/min flow, 1.5 torr ultimate vacuum
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.







HIGH FLOW

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 60 l/min, 3 torr ultimate vacuum
- 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 protects the pump heads in high-moisture applications.
- Chemically resistant flowpath ideal for use with extremely aggressive/corrosive gases and vapors

VACUUM CONTROL

VC 900 Vacuum Control Unit

- Four operating modes ensure versatility and ease-of-use
- 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

RECIRCULATING CHILLER

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

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HIGH-PERFORMANCE

UN 816.3 KTP

- Flow rate 16 l/min, 15 torr ultimate vacuum
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Optional model (.45) with vacuum gauge and regulator

FAST

N 938.50 KT.18 Diaphragm Vacuum Pump

- Flow rate 30 l/min, 11 torr ultimate vacuum
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors

CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump

- Flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.

SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate up to 21 l/min, 1.5 torr ultimate vacuum
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.



FILTRATION/SPE RELIABLE VACUUM FOR CLEAN RESULTS. COMPACT, POWERFUL, FAST.



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SMALL AND VERSATILE

N 96 Mini Diaphragm Vacuum Pump

- Flow rate up to 7 l/min, 97.5 ultimate vacuum
- Extremely small footprint
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

HIGH-PERFORMANCE

UN 811 KVP, UN 816.3 KTP and UN 816.1.2 KTP Diaphragm Vacuum Pumps

- UN 811 KVP flow rate 13 l/min, 75 torr ultimate vacuum
- UN 816.3 KTP flow rate 16 l/min, 15 torr ultimate vacuum
- UN 816.1.2 KTP flow rate 30 l/min, 120 torr ultimate vacuum
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Optional model (.45) with vacuum gauge and regulator

FAST

N 938.50 KT.18 Diaphragm Vacuum Pump

- Flow rate 30 l/min, 11 torr ultimate vacuum
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors

CHEMICALLY RESISTANT

N 840 G Diaphragm Vacuum Pump

- Flow rate up to 34 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.



FLUID ASPIRATION RELIABLE VACUUM WITH PROCESS-SPECIFIC FLOW RATES



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SMALL AND VERSATILE

N 96 Mini Diaphragm Vacuum Pump

- N 96 flow rate up to 7 l/min, 97.5 torr ultimate vacuum
- Extremely small footprint
- Integrated rotational speed control
- PPS pump head combined with PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

UN 811 KVP Mini Diaphragm Vacuum Pump

- Flow rate 13 l/min, 75 torr ultimate vacuum
- Small footprint
- PPS pump head combined with PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors
- Optional model (.45) with vacuum gauge and regulator

HIGH-PERFORMANCE

UN 816.3 KTP Diaphragm Vacuum Pump

- Flow rate 16 l/min, 15 torr ultimate vacuum
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Optional model (.45) with vacuum gauge and regulator

FAST

N 938.50 KT.18 Diaphragm Vacuum Pump

- Flow rate 30 l/min, 11 torr ultimate vacuum
- Connecting both pump heads in parallel and in series ensures exceptionally fast evacuation
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors

CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump

- Flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.



METERING AND TRANSFERRING LIQUIDS PRECISE, SAFE AND CLEAN HANDLING OF NEUTRAL AND AGGRESSIVE LIQUIDS

LIQUIPORT[®]



SIMDOS®



RELIABLE LIQUID TRANSFER

NF 100 and NF 300 Chemically-resistant Diaphragm Liquid Pumps

- NF 100 flow rate from 0.2 to 1.3 l/min; pressure head 15 psig; suction head 9.8 ft. H₂O
- NF 300 flow rate from 0.5 to 3 l/min; pressure head 15 psig; suction head 9.8 ft. H₂O
- NF 1.100 & NF 1.300 models pressure head 58 psig
- Self priming, dry running
- Pump heads available in your choice of PP, PVDF or PTFE
- PTFE-coated diaphragms, FFKM valves
- Flow rate can be set manually (S Version) or via an external analog control device (RC Version)

PRECISE LIQUID METERING

SIMDOS[®] 02 and SIMDOS[®] 10 Chemically-resistant Diaphragm Liquid Pumps

- SIMDOS 02 flow rate from 0.03 to 20 ml/min; pressure head 85 psig; suction head 6.6 ft. H₂O
- SIMDOS 10 flow rate from 1 to 100 ml/min; pressure head 85 psig; suction head 9.8 ft. H₂O
- Self priming, dry running
- Pump heads available in your choice of PP, PVDF, PTFE or Stainless Steel
- PTFE-coated diaphragms* FFKM valves
- Flow rate and dose volume can be set manually (S Version) or externally by either an analog or RS 232 control device (RCP Version)

* FFKM diaphragm standard for SIMDOS 02 PTFE head model

GEL DRYING OPTIMUM RESULTS ACHIEVED THANKS TO CHEMICAL RESISTANCE AND FULLY VARIABLE VACUUM

IOPORT

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CHEMICALLY RESISTANT

N 820 G Diaphragm Vacuum Pump

- Flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.



SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate up to 21 l/min, 1.5 torr ultimate vacuum
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.



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



SPEED-CONTROLLED

N 920 G Diaphragm Vacuum Pump

- Flow rate up to 21 l/min, 1.5 torr ultimate vacuum
- High suction speed, particularly in the low vacuum range
- Integrated rotational speed control
- PPS pump heads combined with PTFE-coated diaphragms are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve

Tip: When connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.

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CHEMICALLY RESISTANT

N 840 G Diaphragm Vacuum Pump

- Flow rate up to 34 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.

HIGH FLOW

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 60 l/min, 3 torr ultimate vacuum
- 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 protects the pump heads in high-moisture applications.
- Chemically resistant flowpath 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[®]



CHEMICALLY RESISTANT

N 820 G and N 840 G Diaphragm Vacuum Pumps

- N 820 G flow rate up to 20 l/min, 4.5 torr ultimate vacuum
- N 840 G flow rate up to 34 l/min, 4.5 torr ultimate vacuum
- High level of vapor and condensate compatibility
- Integrated rotational speed control
- PTFE pump heads combined with PTFE-coated diaphragms 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 connected to the VC 900 vacuum controller the pump speed can be optimized for your specific application requirements.

LABOPORT®



FOR EXTREMELY WET VAPORS

UN 820.3 FT.40P and UN 840.3 FT.40P Diaphragm Vacuum Pumps

- UN 820.3 FT.40P flow rate 20 l/min, 8 torr ultimate vacuum
- UN 840.3 FT.40P flow rate 34 l/min, 8 torr ultimate vacuum
- 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 protects the pump heads in high-moisture applications.
- Chemically resistant flowpath ideal for use with extremely aggressive/corrosive gases and vapors

HIGH FLOW

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 60 l/min, 3 torr ultimate vacuum
- 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 protects the pump heads in high-moisture applications.
- Chemically resistant flowpath ideal for use with extremely aggressive/corrosive gases and vapors



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





HIGH FLOW

N 860.3 FT.40.18 Diaphragm Vacuum Pump

- Flow rate 60 l/min, 3 torr ultimate vacuum
- 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 protects the pump heads in high-moisture applications.
- Chemically resistant flowpath ideal for use with extremely aggressive/corrosive gases and vapors

LABOBASE®



SBC 860.40

TWO-POINT CONTROL

SBC 840.40 and SBC 860.40 Vacuum Systems

- Fully-automated vacuum generation system comprised of chemically resistant diaphragm vacuum pump, base plate, high-performance condenser, separator, vacuum control device, valves and control unit.
- SBC 840.40 for up to 4 users
 - Flow rate 34 l/min, 7.5 torr ultimate vacuum
- SBC 860.40 for up to 10 users
 - Flow rate 60 l/min, 3 torr ultimate vacuum



VACUUM CONTROL

VC 900 Vacuum Control Unit

- Connect to any vacuum source
- 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

TECHNICAL DATA

		LABOPORT® N 96	LABOPORT® UN 811 KVP	LABOPORT® UN 816.3 KTP	LABOPORT® N 816.1.2 KTP	LABOPORT® N 938.50 KT.18	
	Rotary evaporation						
	Distillation						
	Degassing			х		x	
-	Filtration	х	х	х	x	x	
TION	SPE	х	х	х		х	
APPLICATION	Fluid aspiration	Х	x	x		x	
PPI	Metering/Transferring liquids						
-	Gel drying						
	Centrifugal concentration						
	Vacuum oven						
	Multi-user vacuum systems						
	Flow rate at atm. pressure – I/min (m³/h)	7 (0.4)	13 (0.78)	16 (0.96)	30 (1.8)	30 (1.8)	
	Ultimate vacuum – torr (mbar abs.)	97.5 (130)	75 (100)	15 (20)	120 (160)	11 (15)	
	Operating pressure – psig (bar)	36.26 (2.5)	7.4 (0.5)	7.4 (0.5)	7.4 (0.5)	7.4 (0.5)	
DATA	Connectors for tube – in.	ID 1/4	ID 1/4	ID 1/4	ID 1/4	ID 3/8	
TECHNICAL DATA	Permissible media and ambient temperature	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	
	Weight - Ibs. (kg)	2.9 (1.3)	5.5 (2.5)	8.7 (3.95)	8.7 (3.95)	15.0 (6.8)	
	Dimensions W x H x D – in. (mm)	6.1 x 4.7 x 3.0 (156 x 119 x 75)	3.5 x 7.4 x 6.2 (90 x 187 x 157)	3.5 x 5.6 x 14.2 (90 x 141 x 361)	4.0 x 5.6 x 14.2 (102 x 141 x 361)	4.3 x 8.3 x 12.5 (110 x 212 x 317)	
AL	Pump head	PPS	PPS	PPS	PPS	PPS	
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
MA	Valves	FPM	FFPM	FFPM	FFPM	FFPM	
	Silencer		Order no. 007005	Order no. 000345		Order no. 007006	
IES	Column fixture	Order no. 323484					
SOR	Fine control valve with vacuum gauge		UN 811 KV.45P	UN 816.3 KT.45P	UN 816.1.2 KT.45P	Order no. 112432	
ACCESSORIES	Connection cable to N 920 G interface						
	Connection cable to N 820 G/N 840 G interface						
	400 ml Dry ice trap	UST 800	UST 800	UST 800	UST 800	UST 800	
	500 ml Woulfe bottle	Order no. 057953	Order no. 057953	Order no. 057953	Order no. 057953	Order no. 057953	
	1000 ml Woulfe bottle	Order no. 057954	Order no. 057954	Order no. 057954	Order no. 057954	Order no. 057954	

N 920 G	LABOPORT® UN 842.3 FTP	LABOPORT [®] SD UN 820.3 FT.40P	LABOPORT [®] SD UN 840.3 FT.40P	N 860.3 FT.40.18	VC 900
	011042.0111				
x	x			x	x
х	х			х	х
Х					
Х					
Х				Х	
		Х	Х	Х	
		()			X
21 (1.26)	34 (2.04)	20 (1.2)	34 (2.04)	60 (3.6)	
1.5 (2)	1.5 (2)	8 (10)	8 (10)	3 (4)	
7.4 (0.5)	14.5 (1)	14.5 (1)	14.5 (1)	14.5 (1)	
ID 3/8	ID 3/8	ID 3/8	ID 3/8	ID 1/2	pneumatic: ID 3/8 coolants: ID 3/8 inert gas: ID 3/16
Media temp.: 5 to 40 °C (41 to 104 °F) Ambient temp.: 10 to 40 °C (50 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)
18.7 (8.5)	29.5 (13.4)	21.1 (9.6)	28.4 (12.9)	32.6 (14.8)	2.6 (1.2)
6.2 x 8.9 x 12.8 (158 x 226 x 324)	6.6 x 9.0 x 13.4 (167 x 228 x 341)	7.0 x 8.7 x 12.3 (177 x 220 x 312)	7.4 x 9.4 x 13.4 (189 x 239 x 341)	11.4 x 10.9 x 13.0 (291 x 278 x 331)	4.0 x 7.1 x 2.6 (101 x 181 x 67)
PPS	PTFE	PTFE	PTFE	PTFE	
PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
FFPM	FFPM	FFPM	FFPM	FFPM	
Order no. 007006					
Order no. 112432					
					Order no. 307757 (2 m) Order no. 307758 (5 m)
					Order no. 323829 (2 m)
UST 800	UST 800	UST 800	UST 800	UST 800	
Order no. 057953	Order no. 057953	Order no. 057953	Order no. 057953	Order no. 057953	
Order no. 057954	Order no. 057954	Order no. 057954	Order no. 057954	Order no. 057954	

TECHNICAL DATA

		LABOPORT® N 820 G	LABOPORT® N 840 G
	Rotary evaporation	Х	X
	Distillation		
	Degassing	х	
_	Filtration		Х
LION	SPE		Х
APPLICATION	Fluid aspiration	X	
PPL	Metering/Transferring liquids		
	Gel drying	x	
	Centrifugal concentration		Х
	Vacuum oven	х	Х
	Multi-user vacuum systems		
	Flow rate at atm. pressure – I/min (m³/h)	20 (1.2)	34 (2.04)
	Ultimate vacuum – torr (mbar abs.)	4.5 (6)	4.5 (6)
ATA	Operating pressure – psig (bar)	1.45 (0.1)	1.45 (0.1)
ALD	Connectors for tube – in.	ID 3/8	ID 3/8
TECHNICAL DATA	Permissible media and ambient temperature	5 to 40 °C (41 to 104 °F)	5 to 40 °C (41 to 104 °F)
Ē	Weight – Ibs. (kg)	19.4 (8.8)	24.9 (11.3)
	Dimensions W x H x D – in. (mm)	6.4 x 8.7 x 10.2 (163 x 220 x 259)	7.0 x 9.4 x 11.4 (177 x 240 x 289)
AL	Pump head	PTFE	PTFE
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated
Ň	Valves	FFPM	FFPM

		LABOPORT® SR 820 G	LABOPORT® SH 820 G	LABOPORT® SR 840 G	LABOPORT® SH 840 G
	Filtration	х		х	
_	Vacuum Oven	х		x	
TION	Degassing			х	
ICA	Fluid aspiration	х			
APPLICATION	Destillation		х		x
	Rotary evaporation		x		x
	Centrifugal concentration	Х		x	
	Flow rate (m³/h) at atm. pressure	1. 2		2.04	
	Ultimate vacuum (mbar abs.)	6			
ATA	Operating pressure (bar)	0.1			
	Hose connections (mm)	ID 9.5–8, PVDF			
lica	Permissible media and ambient temperature	+5+40°C			
TECHNICAL DATA	Integrated gas ballast valve	Yes			
₽	Integrated rotational speed control	Yes		1	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			
Z	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			
IES	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			
A	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			

TECHNICAL DATA

		SC 920 G		LABOPORT SC 820	8	LABOPORT SC 840	®
	Rotary evaporation	x		x		x	
	Distillation	х		х		х	
	Degassing						
	Filtration						
APPLICATION	SPE						
ICA.	Fluid aspiration						
PPL	Metering/Transferring liquids						
	Gel drying						
	Centrifugal concentration						
	Vacuum oven						
	Multi-user vacuum systems						
	Flow rate at atm. pressure – l/min (m³/h)	21 (1.26)		20 (1.2)		34 (2.04)	
	Ultimate vacuum – torr (mbar abs.)	1.5 (2)		6 (8)		6 (8)	
A	Operating pressure – psig (bar)			14.5	(1)	14.5	(1)
TECHNICAL DATA	Connectors for tube — in.	pneumatic: coolants: inert gas:	ID 3/8 ID 5/16 ID 1/4	pneumatic: coolants:	ID 3/8 ID 5/16	pneumatic: coolants:	ID 3/8 ID 5/16
TECHN	Permissible media and ambient temperature	5 to 40 °C (41 to 104 °F)		5 to 40 (41 to 10		5 to 4 (41 to 1	
	Weight – Ibs. (kg)	33.5 (15.2)		35.3 (16.0)		42.5 (19.3)	
	Dimensions W x H x D – in. (mm)	14.4 x 16.6 x 11.6 (366 x 423 x 294)		11.4 x 19.9 x 15.6 (289 x 506 x 397)		11.4 x 19.9 x 16.4 (289 x 506 x 417)	
AL	Pump head	PPS		PTFE		PTFE	
MATERIAL	Diaphragm	PTFE-coated		PTFE-coated		PTFE-coated	
M	Valves	FFPM		FFPM		FFPM	
s	Coolant valve – G 1/2, ID 5/6 in.	Order no. 117121		Order no. 045075		Order no. 04	5075
AACCESSORIES	Column fixture	for remote control Order no. 120132					
ACCES	Wall fixture	for remote control Order no. 120130					
A	Charging station	Order no. 129	478				

		RC 600	C 900	
APPLICATION	Rotary evaporation	x	x	
	Heating bath: Heating bath temperature	20 to 180 °C (68 to 356 °F)		
	Working temperature range		-10 to 40 °C (14 to 104 °F)	
	Coolant supply parameters (condenser): - Permissible pressure – psig (bar) - Permissible temperature - Coolant-coated surface – cm2	43.5 (3) -15 to 20 °C (5 to 68 °F) 1230		
	Cooling capacity – W	1230	250	
TECHNICAL DATA	Parameters of evaporation flask: - Size of evaporation flask – ml - Rotational speed of evaporation flask – l/min - Length of stroke – mm - Lifting speed – mm/s	50 – 3000 25 – 280 150 38		
	Temperature stability		± 0.5 °C	
	Filling volume – I		1.7 – 2.6	
	Cooling agent		R134a	
	Temperature control		PID temperature control	
	Weight – Ibs. (kg)	20.1 (9.1)	59.5 (27)	
	Dimensions W x H x D – in. (mm) - without glass (footprint) - with glass	17.0 x 18.3 x 17.8 (431 x 464 x 453) 19.2 x 32.4 x 17.8 (487 x 823 x 453)	9.2 x 20.5 x 15.7 (235 x 520 x 400) -	
	Protective cover heating bath	Order no. 127204		
	Refill valve	Order no. 300639		
	Coolant valve			
s	Vacuum seal	Order no. 113046		
BIE	Vapor tube NS 24/400	Order no. 128762		
SSC	Integrated vapor tube/foam break	Order no. 302145		
ACCESSORIES	Foam break NS 24/40	Order no. 301115		
A	Retort stand mount			
	Column-mount bracket	Order no. 306221		
	Dry ice cold finger	Order no. 301696		
	Recirculating condenser	Order no. 128160		

		SIMDOS® 02	SIMDOS [®] 10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
	Rotary evaporation				
	Distillation				
	Degassing				
	Filtration				
NOI	SPE				
ICAI	Fluid aspiration				
APPLICATION	Metering/Transferring liquids	х	x	х	х
A	Gel drying				
	Centrifugal concentration				
	Vacuum oven				
L	Multi-user vacuum systems				
	Flow rate with water at 20 °C and zero pressure head – ml/min	0.03 - 20	1 – 100		
	Flow rate with water at 20 °C and zero pressure head – I/min			0.2 – 1.3	0.5 - 3.0
	Operating pressure – psig (bar)	85 (6)	85 (6)	15 (1) [58 (4) for LIQUIPORT [®] NF 1.100]	15 (1) [58 (4) for LIQUIPORT [®] NF 1.300]
ATA	Suction head – ft. water (mWg)	6.6 (2)	9.8 (3)	9.8 (3)	9.8 (3)
T D/	Connectors for tube – in. (mm)	ID 1/16, OD 1/8	ID 1/8, OD 1/4	ID 5/16	ID 15/32
TECHNICAL DATA	Permissible media and ambient temperature	Ambient temp.: 5 to 40 °C (40 to 104 °F)	Ambient temp.: 5 to 40 °C (40 to 104 °F)	Ambient temp.: 5 to 40 °C (40 to 104 °F)	Ambient temp.: 5 to 40 °C (40 to 104 °F)
		Media temp.: 5 to 80 °C (40 to 176 °F)	Media temp.: 5 to 80 °C (40 to 176 °F)	Media temp.: 5 to 80 °C (40 to 176 °F)	Media temp.: 5 to 80 °C (40 to 176 °F)
	Weight – Ibs. (kg)	2.0 (0.9)	2.0 (0.9)	2.2 (1.0)	3.3 (1.5)
	Dimensions W x H x D – in. (mm)	3.7 x 5.7 x 5.9 (93 x 144 x 150)	3.7 x 5.7 x 5.9 (93 x 144 x 150)	3.9 x 7.0 x 5.1 (99 x 177 x 130)	4.1 x 7.4 x 6.3 (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. 323625	FS 25 T PVDF Mesh opening 70 μm Order no. 165211 FS 25 X PEEK Mesh opening 35 μm Order no. 165213		

ACCESSORIES











Column fixture

Wall fixture

Foot switch

In-line filters FS 60

In-line filters FS 25

CONTACT US

USA, Canada, Mexico KNF Neuberger, Inc. Trenton, New Jersey 08691-1810 Tel. +1 609 890 8600 knfusa@knf.com knf.com

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