



KNF LABORATORY
EQUIPMENT
KNOWING WHAT
COUNTS





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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.

ROTARY EVAPORATION/ DISTILLATION

REPRODUCIBLE RESULTS WITH
SHORT PROCESSING TIMES



BENEFIT FROM EXPERT KNOWLEDGE

ROTARY EVAPORATION TAILORED TO PRACTICAL NEEDS

Under the spotlight at KNF: What aspects are really key to rotary evaporation in everyday lab practice? What is needed to guarantee simple, economical and reliable processes day in day out? These are the questions we used to guide us when developing and implementing the RC 900 and the RC 600. We became involved in daily lab work. We asked lab technicians what they wished for, enlisted experts to perform tests and incorporated their suggestions.

What makes KNF's rotary evaporators stand out? They are designed to impress thanks to their distinct handling advantages, clever functional details and well thought out safety features.

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

RC 900. SUPERIOR PERFORMANCE SYSTEM.

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



RC 900

SC 920 G

C 900

RC 600. DESIGNED FOR ACADEMIA LABS.

System packages are available to suit every budget. The system set-up shown here features the powerful N 920 G vacuum pump. The VC 900 vacuum control unit can also be used to precisely control vacuum pumps from other manufacturers.



C 900

N 920 G

VC 900

RC 600

RC 900

SUPERIOR PERFORMANCE SYSTEM

Cooling condenser is straight-forward to detach by turning the clamping nut. The cooling condenser is also extremely easy to clean.

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.

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

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

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

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



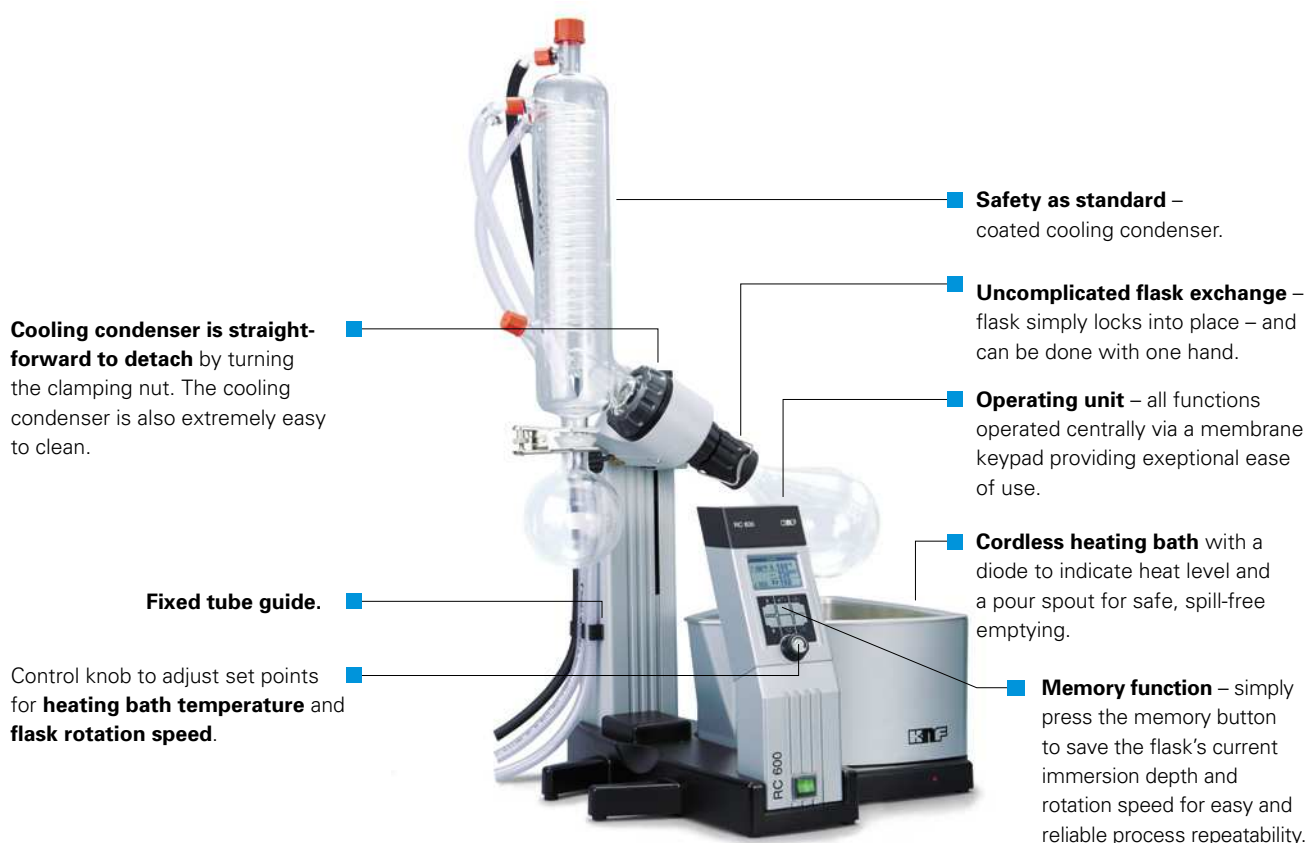
SUCCESSFULLY COMBINED

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.



RC 600

DESIGNED FOR ACADEMIA LABS



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.

SMART EVAPORATION



TURNKEY EVAPORATION



RC 900 AND RC 600

EASE OF USE, DESIGNED TO INSPIRE YOU EVERY DAY



FLASK EXCHANGE | QUICK, EASY AND RELIABLE

Flasks can be exchanged quickly and easily:

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



FLASK ANGLE | FULLY ADJUSTABLE AND PRECISE

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

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



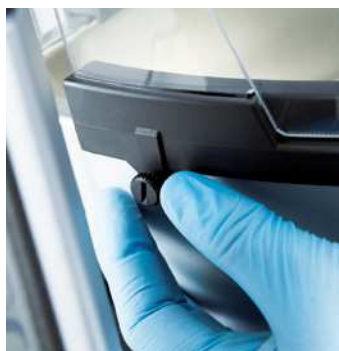
COOLING CONDENSER | HIGH-PERFORMANCE AND EASY TO CLEAN

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

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

RC 900 AND RC 600

ELABORATED SAFETY FEATURES



PROTECTIVE COVER | COMPREHENSIVE SAFETY WHEN NEEDED

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

- Simply place it on the rim of the heating bath and tighten three locking screws to secure.
- Electronic monitoring of the protective cover; if the heating bath is turned on when the protective cover is open, a warning sound is emitted.
- Easy access to flask thanks to hinged designed.



HEATING BATH | SAFE FOR THE USER AND THE PROCESS

The cordless heating bath offers safety and ease of use.

- Vertical double wall for the safe transportation of filled heating baths without spillages.
- Pour spout for safe emptying.
- Diode to indicate heat level.
- Mounted on the guide rail, the horizontal position of the heating bath can easily be adjusted to suit different flask sizes.
- Fill guide makes it easier to feed in the specific quantities of water or oil required for each flask size.



REMOTE CONTROL OF THE RC 900 | CENTRAL AND SECURE

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

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



QUIET

SC 920 G Vacuum Pump System

- Flow rate 1.26 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



SC 950 Vacuum Pump System

- Flow rate 3 m³/h / Ultimate vacuum 2 mbar abs.
- Suited for supplying vacuum to different applications
- 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



DUAL CONTROL

SCC 950 Vacuum Pump System

- Flow rate 3 m³/h / Ultimate vacuum 2 mbar abs.
- Equipped with two controllers to simultaneously and independently assist two rotary evaporators
- Automatic, accurate recognition and monitoring of the boiling point using the integrated ramp function
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors
- Integrated gas ballast valve
- Speed-controlled

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

LABOPORT®



CHEMICALLY RESISTANT

N 820.3 FT.18 and N 840.3 FT.18 Diaphragm Vacuum Pump

- Flow rate up to 2.04 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve:
N 820.3 FT.18 G and N 840.3 FT.18 G

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 enables pumping capacity to be easily adapted manually to process requirements
- 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

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 820.3 FT.18 Diaphragm Vacuum Pump

- Flow rate 1.2 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve: N 820.3 FT.18 G

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 enables pumping capacity to be easily adapted manually to process requirements
- 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.

LABOPORT®



SMALL AND FOR (ALMOST) ANY USE

N 86 KT.18 Mini Diaphragm Vacuum Pump

- Flow rate 0.33 m³/h / Ultimate vacuum 160 mbar abs.
- Extremely low footprint
- 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 840.3 FT.18 Diaphragm Vacuum Pump

- Flow rate 2.04 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve: N 840.3 FT.18 G



FLUID ASPIRATION

RELIABLE VACUUM WITH
PROCESS-SPECIFIC FLOW RATES

LABOPORT®



SMALL AND FOR (ALMOST) ANY USE

N 86 KT.18 Mini Diaphragm Vacuum Pump

- Flow rate 0.33 m³/h / Ultimate vacuum 160 mbar abs.
- Extremely low footprint
- 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®



CHEMICALLY RESISTANT

N 810.3 FT.18 Diaphragm Vacuum Pump

- Flow rate 0.6 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve: N 810.3 FT.18 G



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 Dosing Pump

- Flow rate from 0.03 up to 100 ml/min / Pressure head 60 mWg, suction head 2 mWg and 3 mWg respectively
- Pump heads available in your choice of PP, PVDF or PTFE – diaphragms available in PTFE, 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



LABOPORT®



CHEMICALLY RESISTANT

N 820.3 FT.18 Diaphragm Vacuum Pump

- Flow rate 1.2 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve: N 820.3 FT.18 G



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 enables pumping capacity to be easily adapted manually to process requirements
- 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 close-up photograph of a laboratory setting. A hand wearing a light blue nitrile glove holds a clear microcentrifuge tube with a blue cap. The tube contains a red liquid and has volume markings from 0 to 10 ml. The hand is positioned over the rotor of a centrifuge, which has several other similar tubes in it. In the background, a black vacuum pump with a green indicator light and a yellow multi-well plate are visible. The overall scene is brightly lit with a cool blue color palette.

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 enables pumping capacity to be easily adapted manually to process requirements
- 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 840.3 FT.18 Diaphragm Vacuum Pump

- Flow rate 2.04 m³/h / Ultimate vacuum 8 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
-  ATEX-compliant in accordance with **ATEX II 2G IIB+H2 T3X internal atmosphere only**
- Also available with an integrated gas ballast valve: N 840.3 FT.18 G



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





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

LABOBASE®



CONSTANT

SBC 840.40 and SBC 860.40 Vacuum System

- Flow rate up to 3.6 m³/h / Ultimate vacuum up to 4 mbar abs.
- For up to ten users
- Fully-automated vacuum generation system comprising chemically resistant diaphragm vacuum pump, base plate, high-performance condenser, separator, vacuum control device, valves and control unit

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® FT DIAPHRAGM VACUUM PUMPS

ROBUST AND
ATEX-COMPLIANT
FOR DEMANDING
APPLICATIONS

ATEX-APPROVED FOR MAXIMUM SAFETY

In selected LABOPORT® FT pumps, the inner, wetted area has been equipped to transfer explosive atmospheres. LABOPORT® FT pumps equipped in this way are suitable for the equipment category 2G, and are thus designated for transferring gases, vapors or mists that create conditions in which the occasional formation of an explosive atmosphere is likely.

ATEX KEY OF SELECTED LABOPORT® FT PUMPS AND THE TRANSPORTABLE EXPLOSIVE GASES AND VAPORS:

 ATEX II 2G IIB+H2 T3X INTERNAL ATMOSPHERE ONLY			
	T1	T2	T3
	methane		
IIA	acetone, ammonia, benzene (pure), acetic acid, ethane, ethyl acetate, carbon dioxide, 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		

RANGE OF LABOPORT® FT DIAPHRAGM VACUUM PUMPS

	Rotary evaporation	Degassing	Filtration	Fluid aspiration	Gel drying	Centrifugal concentration
N 810.3 FT.18				X		
N 810.3 FT.18 G				X		
N 820.3 FT.18	X	X			X	
N 820.3 FT.18 G	X	X			X	
N 840.3 FT.18	X		X			X
N 840.3 FT.18 G	X		X			X



ATEX-compliant in accordance with ATEX II 2G IIB+H2 T3X internal atmosphere only

		LABOPORT® N 86 KT.18	LABOPORT® N 816.3 KT.18	LABOPORT® N 816.1.2 KT.18	LABOPORT® N 938.50 KT.18	N 920 G	
APPLICATION	Filtration	x	x	x	x		
	SPE	x	x		x		
	Degassing		x		x	x	
	Fluid aspiration	x	x				
	Gel drying					x	
	Rotary evaporation					x	
	Distillation					x	
	Vacuum oven						
	Multi-user vacuum systems						
	Centrifugal concentration					x	
	Metering/Transferring liquids						
TECHNICAL DATA	Flow rate (m³/h) at atm. pressure	0.33	0.96	1.8	1.8	1.26	
	Ultimate vacuum (mbar abs.)	160	20	160	15	2	
	Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5	
	Flow rate (ml/min) with water at 20 °C and zero pressure head						
	Flow rate (l/min) with water at 20 °C and zero pressure head						
	Pressure head (mWg)						
	Suction head (mWg)						
	Connectors for tube (mm)	ID 4	ID 6	ID 6	ID 10	ID 10	
	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)	1.9	3.95	3.95	6.8	8.5	
	Dimensions W x H x D (mm)	90 x 141 x 164	90 x 141 x 361	102 x 141 x 361	110 x 212 x 317	158 x 226 x 324	
MATERIAL	Pump head	PPS	PPS	PPS	PPS	PPS	
	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
	Valves	FFPM	FFPM	FFPM	FFPM	FFPM	
ACCESSORIES	Silencer	Order no. 000345	Order no. 000345		Order no. 007006	Order no. 007006	
	Hose connector	G1/8 ID4 PVDF Order no. 025671 G1/8 ID6 PVDF Order no. 123363 G1/8 ID4 PA Order no. 001936 G1/8 ID6 PA Order no. 000360 G1/8 ID8 PA Order no. 004975	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		
	Fine control valve with pressure gauge	Order no. 001786					
	Fine control valve with vacuum gauge	Order no. 001787	Order no. 057830		Order no. 112432	Order no. 112432	
	Small flange, stainless steel					Order no. 046625	

[illegible]

	SCC 950	SC 920 G	SC 950	LABOPORT® SC 820	LABOPORT® SC 840	
APPLICATION	Filtration					
	SPE					
	Degassing					
	Fluid aspiration					
	Gel drying					
	Rotary evaporation	x	x	x	x	x
	Distillation	x	x	x	x	x
	Vacuum oven					
	Multi-user vacuum systems		x			
	Centrifugal concentration					
	Metering/Transferring liquids					
TECHNICAL DATA	Flow rate (m³/h) at atm. pressure	3	1.26	3	1.2	2.04
	Ultimate vacuum (mbar abs.)	2	2	2	8	8
	Operating pressure (bar)				1	1
	Flow rate (ml/min) with water at 20 °C and zero pressure head					
	Flow rate (l/min) with water at 20 °C and zero pressure head					
	Pressure head (mWg)					
	Suction head (mWg)					
	Connectors for tube (mm)	pneumatic: ID 10 coolants: ID 8 inert gas: ID 4	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	+10 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C
	Weight (kg)	16.1	15.2	14.5	16.0	19.3
	Dimensions W x H x D (mm)	353 x 487 x 376	366 x 423 x 294	246 x 487 x 313	289 x 506 x 397	289 x 506 x 417
MATERIAL	Pump head	PPS	PPS	PPS	PTFE	PTFE
	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
	Valves	FFPM	FFPM	FFPM	FFPM	FFPM
ACCESSORIES	Coolant valve – G 1/2, ID 8	Order no. 117121	Order no. 117121	Order no. 117121	Order no. 045075	Order no. 045075
	Column fixture	for remote control Order no. 120132	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	for remote control Order no. 120130		
	Foot switch for version RC (RC = flow rate can be set both manually and via an external control device)					
	In-line filters					
	Charging station	Order no. 129478	Order no. 129478	Order no. 129478		
	Gas washing bottle, 0.5 l					
	Non-return valve – unregulated, for fume hoods (PE-HD)					
	Vacuum supply point – for safety cabinets (PPS)					
	Vacuum supply point – unregulated, for installation in laboratory equipment (PPS)					
	Mobile controller unit for regulated vacuum supply (chemically-resistant)					
	Power-supply unit					
	Connection cable for N 920 G interface					

	LABOBASE® SBC 840.40	LABOBASE® SBC 860.40	VC 900
			x
			x
	x	x	x
	2.04	3.6	
	10	4	
	1	1	
	ID 10	ID 10	pneumatic: ID 10 coolants: ID 10 inert gas: ID 4
	+5 ... +40 °C	+5 ... +40 °C	+10 ... +40 °C
	22.9	25.3	1.2
	450 x 515 x 322	314 x 552 x 437	101 x 181 x 67
	PTFE	PTFE	
	PTFE-coated	PTFE-coated	
	FFPM	FFPM	
	Order no. 045075	Order no. 045075	
	Order no. 045886	Order no. 045886	
	Order no. 118366	Order no. 118366	
	Order no. 118364	Order no. 118364	
	Order no. 118362	Order no. 118362	
	Order no. 304108/304181	Order no. 304108/304181	
			Order no. 312797
			Order no. 307757 (2 m)
			Order no. 307758 (5 m)

	SIMDOS® 02	SIMDOS® 10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
APPLICATION	Filtration			
	SPE			
	Degassing			
	Fluid aspiration			
	Gel drying			
	Rotary evaporation			
	Distillation			
	Vacuum oven			
	Multi-user vacuum systems			
	Centrifugal concentration			
	Metering/Transferring liquids	x	x	x
TECHNICAL DATA	Flow rate (m³/h) at atm. pressure			
	Ultimate vacuum (mbar abs.)			
	Operating pressure (bar)			
	Flow rate (ml/min) with water at 20 °C and zero pressure head	0.03 – 20	1 – 100	
	Flow rate (l/min) with water at 20 °C and zero pressure head		0.2 – 1.3	0.5 – 3.0
	Pressure head (mWg)	60	60	10 (60 with LIQUIPORT® NF 1.100)
	Suction head (mWg)	2	3	3
	Connectors for tube (mm)	ID 1.6/AD 3.2	ID 4/AD 6	ID 8
	Permissible media and ambient temperature	Ambient temp.: +5 ... +40 °C Liquid temp.: +5 ... +80 °C	Ambient temp.: +5 ... +40 °C Liquid temp.: +5 ... +80 °C	Ambient temp.: +5 ... +40 °C Liquid temp.: +5 ... +80 °C
	Weight (kg)	0.9	0.9	1.0
	Dimensions W x H x D (mm)	93 x 144 x 150	93 x 144 x 150	99 x 177 x 130
MATERIAL	Pump head	PP, PVDF or PTFE	PP, PVDF or PTFE	PP, PVDF or PTFE
	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated
	Valves	FFKM	FFKM	FFKM
ACCESSORIES	Column fixture	Order no. 160474	Order no. 160474	Order no. 160474
	Wall fixture	Order no. 160473	Order no. 160473	Order no. 160473
	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
	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	
	Charging station			
	Gas washing bottle, 0.5 l			
	Non-return valve – unregulated, for fume hoods (PE-HD)			
	Vacuum supply point – for safety cabinets (PPS)			
	Vacuum supply point – unregulated, for installation in laboratory equipment (PPS)			
	Mobile controller unit for regulated vacuum supply (chemically-resistant)			



Column fixture



Wall fixture



Foot switch



In-line filters FS 60



In-line filters FS 25

		RC 900	RC 600	C 900
APPLICATION	Rotary evaporation	x	x	x
TECHNICAL DATA	Heating bath: Heating bath temperature (°C)	20 – 180	20 – 180	
	Working temperature range (°C)			-10 – +40
	Coolant supply parameters (condenser):			
	- Permissible pressure (bar)	3	3	
	- Permissible temperature (°C)	-15 – +20	-15 – +20	
	- Coolant-coated surface (cm²)	1230	1230	
	Cooling capacity (W)			250
	Parameters of evaporation flask:			
	- Size of evaporation flask (ml)	50 – 3000	50 – 3000	
	- Rotational speed of evaporation flask (1/min)	25 – 250	25 – 280	
	- Length of stroke (mm)	150	150	
	- Lifting speed (mm/s)	38	38	
	Temperature stability (°C)			± 0.5
	Filling volume (l)			1.7 – 2.6
	Cooling agent			R134a
ACCESSORIES	Temperature control			PID temperature control
	Weight (kg)	9.1	9.1	27
	Dimensions W x H x D (mm)	-	-	235 x 520 x 400
	- without glass (footprint)	431 x 464 x 447	431 x 464 x 453	-
	- with glass	487 x 823 x 447	487 x 823 x 453	-
	Protective cover heating bath	Order no. 127204	Order no. 127204	
	Refill valve	Order no. 300639	Order no. 300639	
ACCESSORIES	Coolant valve	Order no. 300853		
	Vacuum seal	Order no. 113046	Order no. 113046	

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