

KNF Лабораторное оборудование



СинЭкс - официальный представитель KNF в РФ www.sineks.ru // +7 (495) 223-18-03





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.





BENEFIT FROM EXPERT KNOWLEDGE

ROTARY EVAPORATION TAILORED TO PRACTICAL NEEDS

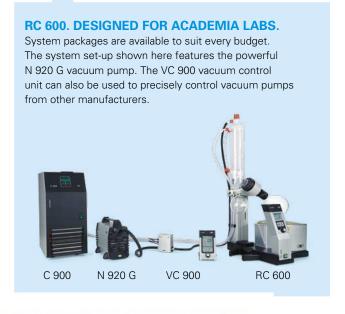
Under the spotlight at KNF: What aspects are really key to rotary evaporation in everyday lab practice? What is needed to guarantee simple, economical and reliable processes day in day out? These are the questions we used to guide us when developing and implementing the RC 900 and the RC 600. We became 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

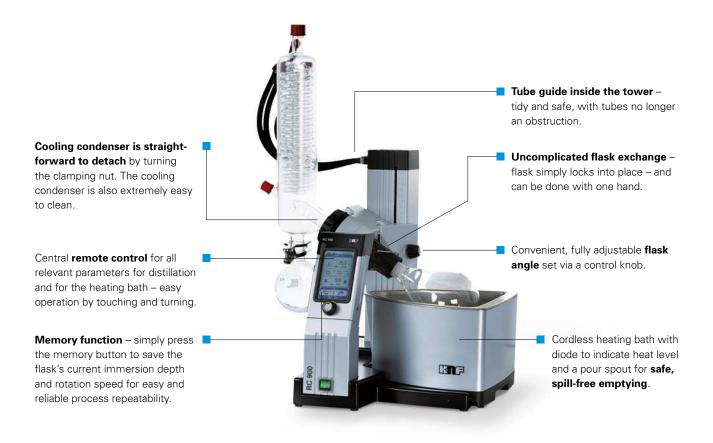
RC 900. SUPERIOR PERFORMANCE SYSTEM. Rotary evaporator, vacuum pump system and chiller as a perfectly coordinated system. RC 900 SC 920 G C 900





RC 900

SUPERIOR PERFORMANCE SYSTEM



SUCCESSFULLY COMBINED

Joining forces to create a precisely balanced system,

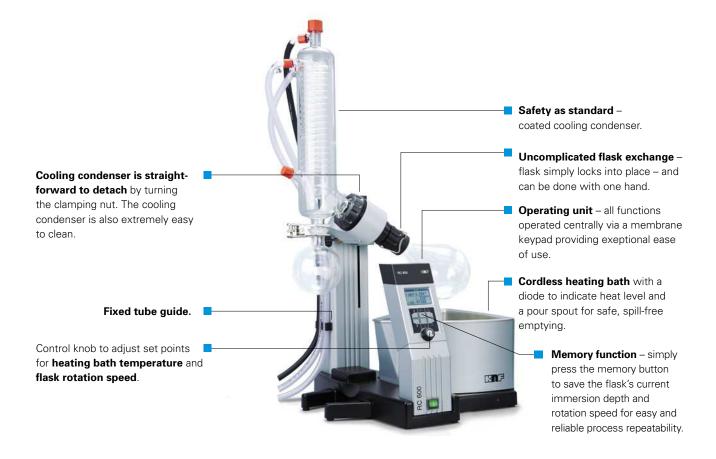
we present the RC 900 rotary evaporator combined with the SC 920 G vacuum pump system and the C 900 chiller, which together form an effective, efficient system.





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.





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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



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





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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 820.3 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.





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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

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 840.3 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





LABOPORT®



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

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

CHEMICALLY RESISTANT

N 810.3 FT.18 Diaphragm Vacuum Pump



- 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



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





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.





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



Вакуумная сушка

OUTSTANDING CHEMICAL AND CONDENSATE COMPATIBILITY WITH FAST EVACUATION OF LARGE VAPOR QUANTITIES

LABOPORT® SD



TRIED AND TESTED

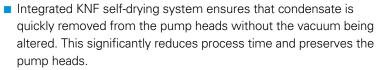
N 820.3 FT.40.18 and N 840.3 FT.40.18 Diaphragm Vacuum Pump

- 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







 Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors







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

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■ Control of the vacuum application

VC 900 Vacuum Control Unit

- 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				х		
N 810.3 FT.18 G				х		
N 820.3 FT.18	х	х			х	
N 820.3 FT.18 G	х	х			х	
N 840.3 FT.18	х	· ·	х			х
N 840.3 FT.18 G	х		х			х

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



		LABOPORT®	LAB0P0RT®	LAB0P0RT®	LABOPORT®		
		N 86 KT.18	N 816.3 KT.18	N 816.1.2 KT.18	N 938.50 KT.18	N 920 G	
NO	Filtration	х	Х	Х	х		
APPLICATION	SPE	x	X		х		
PLIC	Degassing		X		Х	х	
AF	Fluid aspiration	х	Х				
	Gel drying					Х	
	Rotary evaporation					Х	
	Distillation					Х	
	Vacuum oven						
	Multi-user vacuum systems						
	Centrifugal concentration					Х	
	Metering/Transferring liquids						
ATA	Flow rate (m³/h) at atm. pressure	0.33	0.96	1.8	1.8	1.26	
AL D	Ultimate vacuum (mbar abs.)	160	20	160	15	2	
NC	Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5	
TECHNICAL DATA	Flow rate (ml/min) with water at 20 °C and zero pressure head						
	Flow rate (I/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	
IAL	Pump head	PPS	PPS	PPS	PPS	PPS	
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
Ž	Valves	FFPM	FFPM	FFPM	FFPM	FFPM	
ES	Silencer	Order no. 000345	Order no. 000345		Order no. 007006	Order no. 007006	
ACCESSORIES	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	

LABOPORT®	LABOPORT®	LABOPORT®	LAB0P0RT®	LABOPORT® SD	LABOPORT® SD	
N 810.3 FT.18	N 820.3 FT.18	N 840.3 FT.18	N 842.3 FT.18	N 820.3 FT.40.18	N 840.3 FT.40.18	N 860.3 FT.40.18
(Ex) ATEX II 2G IIB+H2 T3X	(Ex) ATEX II 2G IIB+H2 T3X	(Ex) ATEX II 2G IIB+H2 T3X				
internal atmosphere only	internal atmosphere only	internal atmosphere only X				
		^				
	Х					
Х						
	X					
	X	x	х			Х
			х			Х
				X	х	Х
		X				X
0.6	1.2	2.04	2.04	1.2	2.04	3.6
8	8	8	2	10	10	4
1	1	1	1	1	1	1
ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 12
+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C
0.0	0.0	40.0	40.4	0.0	40.0	440
6.9 140 x 187 x 281	9.3	12.6 166 x 226 x 341	13.4	9.6 177 x 220 x 312	12.9	14.8 291 x 278 x 331
	154 x 207 x 312		167 x 228 x 341		189 x 239 x 341	
PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM

		SCC 950	SC 920 G	SC 950	LABOPORT® SC 820	LABOPORT® SC 840	
Z	Filtration						
APPLICATION	SPE						
)LIC	Degassing						
APF	Fluid aspiration						
	Gel drying						
	Rotary evaporation	Х	Х	Х	Х	Х	
	Distillation	х	х	х	х	х	
	Vacuum oven						
	Multi-user vacuum systems			х			
	Centrifugal concentration						
	Metering/Transferring liquids						
ΙTΑ	Flow rate (m³/h) at atm. pressure	3	1.26	3	1.2	2.04	
T D/	Ultimate vacuum (mbar abs.)	2	2	2	8	8	
IICA	Operating pressure (bar)				1	1	
TECHNICAL DATA	Flow rate (ml/min) with water at 20 °C and zero pressure head						
	Flow rate (I/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	
ATE	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
Σ	Valves	FFPM	FFPM	FFPM	FFPM	FFPM	
ES	Coolant valve – G 1/2, ID 8	Order no. 117121	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	for remote control Order no. 120132			
ACCI	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 VC 900			
X			VC 900
X			
X			
X			
X			
X			x
2.04 3.6 10 4 1 1 1 1 1 1 1 1 1			
2.04 3.6 10 4 1 1 1 1 1 1 1 1 1			
ID 10	х	х	х
ID 10			
ID 10	0.04	0.0	
ID 10 ID 10 pneumatic: ID 10 coolants: ID 10 inert gas: ID 4 +5 +40 °C 22.9 25.3 1.2 101 x 181 x 67 PTFE PTFE PTFE PTFE-coated PTFE-coated FFPM FFPM Order no. 045075 Order no. 045075 Order no. 118366 Order no. 118366 Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 312797 Order no. 307757 (2 m)			
ID 10 ID 10 pneumatic: ID 10 coolants: ID 10 inert gas: ID 4			
Coolants: ID 10 Inert gas: ID 4	'	'	
Coolants: ID 10 Inert gas: ID 4			
Coolants: ID 10 Inert gas: ID 4			
Coolants: ID 10 Inert gas: ID 4			
Coolants: ID 10 Inert gas: ID 4			
+5 +40 °C	ID 10	ID 10	coolants: ID 10
450 x 515 x 322 314 x 552 x 437 101 x 181 x 67 PTFE PTFE PTFE-coated PFFM FFPM FFPM Order no. 045075 Order no. 045075 Order no. 118366 Order no. 118366 Order no. 118366 Order no. 118364 Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 304708/304181 Order no. 312797 Order no. 307757 (2 m)	+5 +40 °C	+5 +40 °C	
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. 307757 (2 m)	22.9	25.3	1.2
PTFE-coated FFPM FFPM Order no. 045075 Order no. 045075 Order no. 045886 Order no. 118366 Order no. 118364 Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 307757 (2 m)	450 x 515 x 322	314 x 552 x 437	101 x 181 x 67
FFPM	PTFE	PTFE	
Order no. 045075 Order no. 045075 Order no. 045886 Order no. 118366 Order no. 118364 Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 3027757 (2 m)	PTFE-coated	PTFE-coated	
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. 307757 (2 m)	FFPM	FFPM	
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. 045075	Order no. 045075	
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)			
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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)	0.1	0.1	
Order no. 118364 Order no. 118364 Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 304108/304181 Order no. 304708/304181 Order no. 312797 Order no. 307757 (2 m)			
Order no. 118362 Order no. 118362 Order no. 304108/304181 Order no. 304108/304181 Order no. 312797 Order no. 307757 (2 m)	บานยา กบ. 11ช366	บานยา กบ. 1 1ช366	
Order no. 304108/304181 Order no. 312797 Order no. 307757 (2 m)			
304108/304181 304108/304181 Order no. 312797 Order no. 307757 (2 m)			
Order no. 307757 (2 m)			0.1.040707
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		SIMDOS® 02	SIMDOS® 10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
NO	Filtration				
ATI	SPE				
APPLICATION	Degassing				
AP	Fluid aspiration				
	Gel drying				
	Rotary evaporation				
	Distillation				
	Vacuum oven				
	Multi-user vacuum systems				
	Centrifugal concentration				
	Metering/Transferring liquids	х	Х	Х	Х
ATA	Flow rate (m³/h) at atm. pressure				
/L D	Ultimate vacuum (mbar abs.)				
NIC.	Operating pressure (bar)				
TECHNICAL DATA	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
	Pressure head (mWg)	60	60	10 (60 with LIQUIPORT® NF 1.100)	10 (60 with LIQUIPORT® NF 1.300)
	Suction head (mWg)	2	3	3	3
	Connectors for tube (mm)	ID 1.6/AD 3.2	ID 4/AD 6	ID 8	ID 12
	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	Ambient temp.: +5 +40 °C Liquid 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
AL	Pump head	PP, PVDF or PTFE	PP. PVDF or PTFE	PP. PVDF or PTFE	PP. PVDF or PTFE
MATERIAL	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
MA	Valves	FFKM	FFKM	FFKM	FFKM
S	Column fixture	Order no. 160474	Order no. 160474	Order no. 160474	Order no. 160474
RE	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		
	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	х	х	х
ΑTΑ	Heating bath: Heating bath temperature (°C)	20 – 180	20 – 180	
T D/	Working temperature range (°C)			-10 — +40
TECHNICAL DATA	Coolant supply parameters (condenser): - Permissible pressure (bar) - Permissible temperature (°C) - Coolant-coated surface (cm²)	3 -15 – +20 1230	3 -15 – +20 1230	
	Cooling capacity (W)			250
	Parameters of evaporation flask: - Size of evaporation flask (ml) - Rotational speed of evaporation flask (1/min) - Length of stroke (mm) - Lifting speed (mm/s)	50 – 3000 25 – 250 150 38	50 – 3000 25 – 280 150 38	
	Temperature stability (°C)			± 0.5
	Filling volume (I)			1.7 – 2.6
	Cooling agent			R134a
	Temperature control			PID temperature control
	Weight (kg)	9.1	9.1	27
	Dimensions W x H x D (mm) - without glass (footprint) - with glass	- 431 x 464 x 447 487 x 823 x 447	- 431 x 464 x 453 487 x 823 x 453	235 x 520 x 400 - -
IES	Protective cover heating bath	Order no. 127204	Order no. 127204	
SOR	Refill valve	Order no. 300639	Order no. 300639	
ACCESSORIES	Coolant valve	Order no. 300853		
V	Vacuum seal	Order no. 113046	Order no. 113046	

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