# KNF LAB PUMPS AND SYSTEMS. KNOWING WHAT COUNTS.







# KNF LAB PUMPS AND SYSTEMS. 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.





## reddot award 2014 winner

### **RC 900 Rotary Evaporator**

- Sleek design, minimum footprint
- Whisper quiet for a pleasant working environment
- Versatile use, simple operation

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

Relevant parameters for distillation and for the heating bath are easily set by **touching** and turning.

Cordless heating bath with pour spout for **safe emptying without spilling.** 





The RC 900 rotary evaporator can be teamed with the SC 920 vacuum pump system and the C 900 chiller to create a precisely tuned system.

ROTARY EVAPORATION / DISTILLATION ROTARY EVAPORATION / DISTILLATION



C 920



## QUIET

### SC 920 and SC 950 Vacuum Pump System

- Flow rate up to 3 m<sup>3</sup>/h / Ultimate vacuum 2 mbar abs.
- Remote-controlled for safe operation from outside closed fume hoods
- Automated, precise boiling point recognition and control
- 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, N 840.3 FT.18 and N 842.3 FT.18 Diaphragm Vacuum Pump

- Flow rate up to 2.04 m<sup>3</sup>/h / Ultimate vacuum up to 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





### N 920 KT.29.18 Diaphragm Vacuum Pump

- Flow rate 1.2 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 to process requirements
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors

### A POWERFUL PACKAGE

### N 860.3 FT.40.18 Diaphragm Vacuum Pump

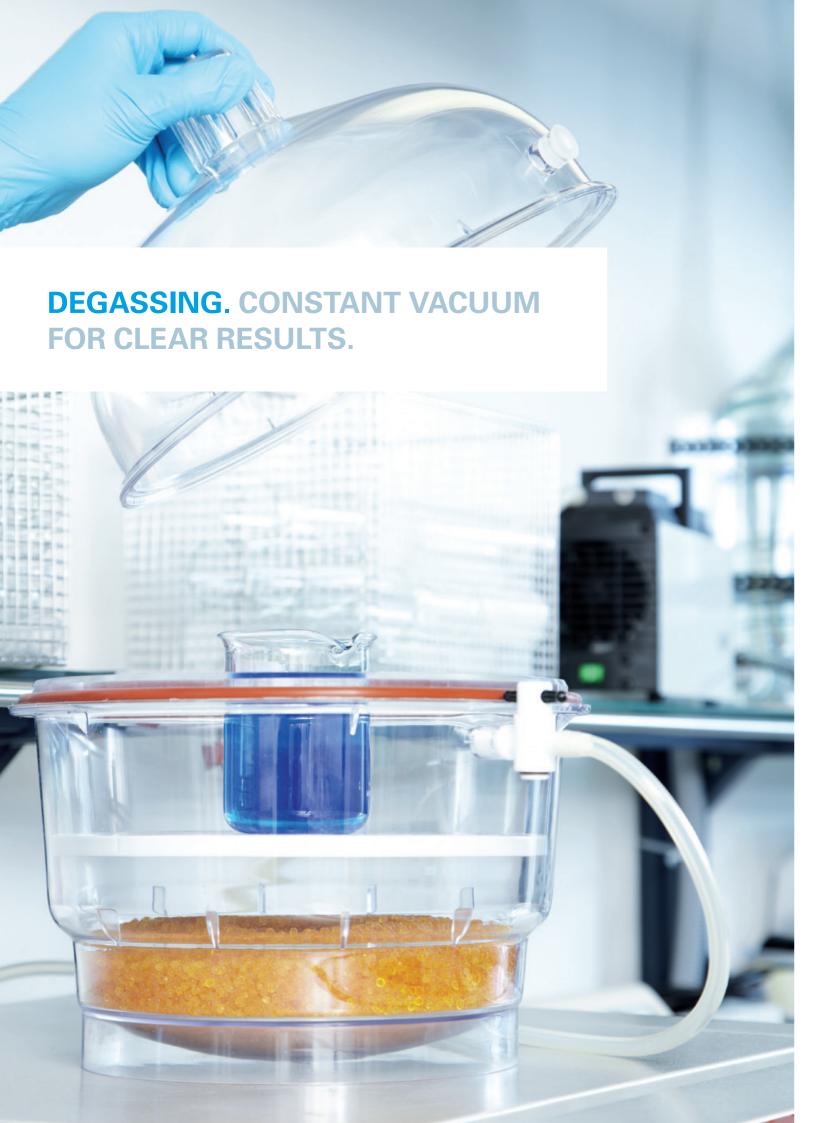
- Flow rate 3.6 m<sup>3</sup>/h / Ultimate vacuum 4 mbar abs.
- Integrated KNF self-drying system ensures that condensate is quickly removed from the pump heads without the vacuum being altered processing times are markedly reduced as a result
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors

### **ECONOMICAL**



- 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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### **LABOPORT®**



### HIGH-PERFORMANCE

### N 816.3 KT.18 Mini 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 Mini 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

### SPEED-CONTROLLED

### N 920 KT.29.18 Diaphragm Vacuum Pump

- Flow rate 1.2 m<sup>3</sup>/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 to process requirements
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors



COMPACT, POWERFUL, FAST.

### LABOPORT®



### SMALL AND FOR (ALMOST) ANY USE

### N 86 KT.18 Mini Diaphragm Vacuum Pump

- Flow rate 0.33 m<sup>3</sup>/h / Ultimate vacuum 160 mbar abs.
- Extremely low footprint
- PTFE-coated diaphragm is ideal for aggressive/corrosive gases and vapors

### **LABOPORT®**



# Flow rate up PTFE-coate

**FAST** 

### HIGH-PERFORMANCE

### N 816.3 KT.18 and N 816.1.2 KT.18 Mini 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®**



### N 938.50 KT.18 Mini 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



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 Mini 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.
- PTFE pump head combined with PTFE-coated diaphragm are ideal for extremely aggressive/corrosive gases and vapors



# 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 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 (Version RC)



**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

## SPEED-CONTROLLED



### N 920 KT.29.18 Diaphragm Vacuum Pump

- Flow rate 1.2 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 to process requirements
- PPS pump head combined with PTFE-coated diaphragm are ideal for aggressive/corrosive gases and vapors





### SPEED-CONTROLLED

### N 920 KT.29.18 Diaphragm Vacuum Pump

- Flow rate 1.2 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 to process requirements
- PPS pump head combined with PTFE-coated diaphragm are 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

# A POWERFUL PACKAGE N 860.3 FT.40.18 Diaphragm Vacuum Pump



- Flow rate 3.6 m<sup>3</sup>/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 processing times are markedly reduced as a result
- 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®**



### 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 processing times are markedly reduced as a result
- 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 processing times are markedly reduced as a result
- Chemically resistant and thus ideal for use with extremely aggressive/corrosive gases and vapors





### LABOBASE®



### 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

### 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

## **TECHNICAL DATA**

		LABOPORT®	LABOPORT®	LABOPORT®	LABOPORT®		LABOPORT®	LABOPORT®	LABOPORT®	LABOPORT®		LABOPORT® SD		LABOBASE®	LABOBASE®
_		N 86 KT.18	N 816.3 KT.18	N 816.1.2 KT.18	N 938.50 KT.18	N 920 KT.29.18	N 810.3 FT.18	N 820.3 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	SBC 840.40	SBC 860.40
ION	Filtration	X	X	Х	X				X						
- 3	SPE Democring	X	X		X										
PPLI	Degassing		X		Х	Х		Х							
¥	Fluid aspiration	X	X				X	v							
	Gel drying					X		X							
	Rotary evaporation  Distillation					X		Х	X	X			X		
	Vacuum oven					Α				X X	X	X	X		
	Multi-user vacuum systems										X X	X	X	X	X
	Centrifugal concentration					X			X				X	^	^
ΙΤΑ	Metering/Transferring liquids					A			^				^		
	Flow rate (m³/h) at atm. pressure	0.33	0.96	1.8	1.8	1.2	0.6	1.2	2.04	2.04	1.2	2.04	3.6	2.04	3.6
	Ultimate vacuum (mbar abs.)	160	20	160	15	2	8	8	8	2	10	10	4	10	4
Ä	Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5	1	1	1	1	1	1	1	1	1
	Flow rate (ml/min) with water	2.0	0.0	0.0	0.0	0.0	·	·	·		·	·	·	·	
E	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)	ID 4	ID 0	ID 0	ID 40	ID 40	10.40	ID 40	ID 40	ID 40	ID 40	ID 40	ID 40	ID 40	ID 40
	Connectors for tube (mm)	ID 4	ID 6	ID 6	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 12	ID 10	ID 10
	Permissible gas and ambient temperature	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	Gas temp.: + 5 +40 °C Ambient temp.:	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °C
	M/-:L4/I\	1.9	3.95	3.95	6.8	+10 +40 °C 8.6	6.9	0.0	12.6	13.4	9.6	12.9	14.8	22.9	25.3
	Weight (kg) Dimensions L x H x W (mm)	1.9 164 x 141 x 90	3.95 361 x 141 x 90	3.95 361 x 141 x 102	317 x 212 x 110	324 x 226 x 158	281 x 187 x 140	9.3 312 x 207 x 154	341 x 226 x 166	341 x 223 x 167	9.6 312 x 220 x 177	341 x 239 x 189	331 x 278 x 291	450 x 515 x 322	437 x 552 x 31
	Pump head	PPS	PPS	PPS	PPS PPS	PPS	PTFE	912 X 207 X 154	741 X 220 X 100	941 X 223 X 107	912 X 220 X 1//	941 X 239 X 189	931 X 2/8 X 291	PTFE	PTFE
<u> </u>	•														
⋖	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
	Valves	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM
2	Coolant valve – G 1/2, ID 8													Order no. 045075	Order no. 04507!
	Silencer	Order no. 000345	Order no. 000345		Order no. 007006	Order no. 007006									
ACCESSORIES		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		<b>G1/8 ID10 PVDF</b> Order no. 112004										
	Fine control valve with pressure gauge	Order no. 001786	0.1	0.1		Order no. 112432									
	Fine control valve with vacuum gauge	Order no. 001787	Order no. 0057830	Urder no. 0057830	Order no. 112432										
	Small flange, stainless steel					Order no. 046625									
	Gas washing bottle, 0.5 l													Order no. 045886	Order no. 045886
	Non-return valve - unregulated, for fume hoods (PE-HD)													Order no. 118366 Order no. 118364	Order no. 118366 Order no. 118364
	Vaccum supply point – unregulated, for installation in laboratory equipment (PPS)													Order no. 118362	Order no. 118362
	Mobile controller unit for regulated vacuum supply (chemically-resistant)													Order no. 048459	Order no. 048459

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### **TECHNICAL DATA**

		SC 920	SC 950	LABOPORT® SC 820	LABOPORT® SC 840	SIMDOS® 02	SIMDOS® 10	LIQUIPORT® NF 100	LIQUIPORT® NF 300
NO	Filtration								
ATI	SPE								
APPLICATION	Degassing								
API	Fluid aspiration								
	Gel drying								
	Rotary evaporation	Х	Х	Х	Х				
	Distillation	х	Х						
	Vacuum oven								
	Multi-user vacuum systems		Х						
	Centrifugal concentration								
	Metering/Transferring liquids					Х	Х	Х	Х
ITA	Flow rate (m³/h) at atm. pressure	1.2	3.0	1.2	2.04				
L DATA	Ultimate vacuum (mbar abs.)	2	2	8	8				
CAI	Operating pressure (bar)			1	1				
TECHNICAL	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)	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	ID 1.6/AD 3.2	ID 4/AD 6	ID 8	ID 12
	Permissible gas and ambient temperature	+5 +40 °C	+5 +40 °C	+5 +40 °C	+5 +40 °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	Ambient temp.: +5 +40 °C Liquid temp. +5 +80 °C
	Weight (kg)	15.0	14.5	16.0	19.3	0.9	0.9	1.0	1.5
	Dimensions L x H x W (mm)	423 x 366 x 294	487 x 246 x 313	397 x 289 x 506	417 x 289 x 506	130 x 140 x 87	130 x 140 x 87	130 x 99 x 177	160 x 104 x 188
AL	Pump head	PPS	PPS	PTFE	PTFE	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	PTFE	PTFE	PTFE	PTFE
MA	Valves	FFPM	FFPM	FFPM	FFPM	FFKM	FFKM	FFKM	FFKM
	Coolant valve – G 1/2, ID 8	Order no. 117121	Order no. 117121	Order no. 045075	Order no. 045075				
SSORIES	Column fixture	for remote control Order no. 120132				Order no. 160474	Order no. 160474	Order no. 160474	Order no. 160474
ACCESS0	Wall fixture	for remote control Order no. 120130				Order no. 160473	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	Order no. 155872
	In-line filters					FS 60 T PVDF Mesh opening 70 µm Order no. 165210 FS 60 X PEEK Mesh opening 35 µm Order no. 165212	FS 25 T PVDF Mesh opening 70 µm Order no. 165211 FS 25 X PEEK Mesh opening 35 µm Order no. 165213		







Column fixture



Foot switch



In-line filters FS 60



In-line filters FS 25

RC 900 C 900 APPLICATION **Rotary evaporation** Heating bath: Heating bath temperature (°C) 20 - 180Working temperature range (°C) -10 - +40 **Coolant supply parameters** (condenser): - Permissible pressure (bar) 3 - Permissible temperature -15 °C - +20 °C - Coolant-coated surface (cm²) 1230 250 Cooling capacity (W) Parameters of evaporation flask: - Size of evaporation flask 50 - 4000 ml - Rotational speed of 25 - 250evaporation flask (1/min) - Length of stroke (mm) 150 ca. 38 - Lifting speed (mm/s) Temperature stability (°C) ± 0.5 Filling volume (I) 1.7 - 2.6**Cooling agent** R134a Temperature control PID temperature control 9.1 27 Weight (kg) 235 x 520 x 400 Dimensions L x H x W (mm) 447 x 464 x 431 - without glass (footprint) - with glass 447 x 823 x 487 Protective cover heating bath Order no. 127204 **ACCESSORIES** Refill valve Order no. 300639 Order no. 300853 **Coolant valve** Collection flask (implosion protected): - 100 ml Order no. 300557 - 250 ml Order no. 300558 - 500 ml Order no. 128158 - 1000 ml Order no. 113939 - 2000 ml Order no. 113938 **Evaporation flask NS29/32:** - 50 ml Order no. 113079 - 100 ml Order no. 113080 - 250 ml Order no. 113081 Order no. 113082 - 500 ml - 1000 ml Order no. 128159 - 2000 ml Order no. 113083 - 3000 ml Order no. 113084 **Evaporation flask NS24/40:** - 50 ml Order no. 300561 Order no. 300562 - 100 ml - 250 ml Order no. 300563 - 500 ml Order no. 300564 - 1000 ml Order no. 128893 - 2000 ml Order no. 300565 - 3000 ml Order no. 300566 Vapor tube NS29/32: - 500 ml Order no. 300588 - 1000 ml Order no. 300589 Order no. 300590 - 2000 ml Vapor tube NS24/40: - 500 ml Order no. 300591 - 1000 ml Order no. 300592 - 2000 ml Order no. 300593 Foam brake NS29/32 Order no. 301114 Foam brake NS24/40 Order no. 301115

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reserve the right to make technical changes without notice.

KNF offers a wide range of high-quality pumps and systems for moving both liquids and gases. Whether they are used as built-in OEM pumps, in process applications or in laboratories, KNF products offer high performance, precision, and realiability. We offer all of our customers expert and personal advice. Contact us today to discuss how we can assist you with your next project!

The KNF production sites worldwide:



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