

KNF Lab PUMPS

TECHNICAL DATA	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	LABOPORT® N 810.3 FT.18 ATEX II 2G IIB+H2 T3X internal atmosphere only	LABOPORT® N 820.3 FT.18 ATEX II 2G IIB+H2 T3X internal atmosphere only	LABOPORT® N 840.3 FT.18 ATEX II 2G IIB+H2 T3X internal atmosphere only	LABOPORT® N 842.3 FT.18	LABOPORT® SD N 820.3 FT.40.18	LABOPORT® SD N 840.3 FT.40.18 N	860.3 FT.40.18
APPLICATION												
Filtration	x	x	x	x				x				
SPE	x	x		x								
Degassing		x		x	x		x					
Fluid aspiration	x	x				x						
Gel drying					x		x					
Rotary evaporation					x		x	x	x			x
Distillation					x				x			x
Vacuum oven										x	x	x
Multi-user vacuum systems												
Centrifugal concentration					x			x				x
Metering / Transferring liquids												
TECHNICAL DATA												
Flow rate (m³/h) at atm. pressure	0.33	0.96	1.8	1.8	1.26	0.6	1.2	2.04	2.04	1.2	2.04	3.6
Ultimate vacuum (mbar abs.)	160	20	160	15	2	8	8	8	2	10	10	4
Operating pressure (bar)	2.5	0.5	0.5	0.5	0.5	1	1	1	1	1	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)	ID 4	ID 6	ID 6	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 10	ID 12
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	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C
Weight (kg)	1.9	3.95	3.95	6.8	8.5	6.9	9.3	12.6	13.4	9.6	12.9	14.8
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	140 x 187 x 281	154 x 207 x 312	166 x 226 x 341	167 x 228 x 341	177 x 220 x 312	189 x 239 x 341	291 x 278 x 331
MATERIAL												
Pump head	PPS	PPS	PPS	PPS	PPS	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
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
Valves	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	FFPM	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							



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TECHNICAL DATA


	SCC 950	SC 920G	SC 950	LABOPORT® SC 820	LABOPORT® SC 840	LABOBASE® SBC 840.40	LABOBASE® SBC 860.40	VC 900
APPLICATION								
Filtration								
SPE								
Degassing								
Fluid aspiration								
Gel drying								
Rotary evaporation	x	x	x	x	x			x
Distillation	x	x	x	x	x			x
Vacuum oven								
Multi-user vacuum systems			x			x	x	x
Centrifugal concentration								
Metering / Transferring liquids								
TECHNICAL DATA								
Flow rate (m³/h) at atm. pressure	3	1.26	3	1.2	2.04	2.04	3.6	
Ultimate vacuum (mbar abs.)	2	2	2	8	8	10	4	
Operating pressure (bar)				1	1	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	ID 10	ID 10	pneumatic: ID 10 coolants: ID 10 inert gas: ID 4
Permissible media and ambient temperature	+10 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C	+10 ... +40 °C
Weight (kg)	16.1	15.2	14.5	16.0	19.3	22.9	25.3	1.2
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	450 x 515 x 322	314 x 552 x 437	101 x 181 x 67
MATERIAL								
Pump head	PPS	PPS	PPS	PTFE	PTFE	PTFE	PTFE	
Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated	
Valves	FFPM	FFPM	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	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					
Footswitch 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						Order no. 045886	Order no. 045886	
Non-return valve – unregulated, for fume hoods (PE-HD)						Order no. 118366	Order no. 118366	
Vacuum supply point – for safety cabinets (PPS)						Order no. 118364	Order no. 118364	
Vacuum 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. 304108/304181	Order no. 304108/304181	
Power-supply unit								Order no. 312797
Connection cable for N 920 G interface								Order no. 307757 (2 m) Order no. 307758 (5 m)

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**

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		
I IA	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
I IB	town gas	ethene	
I IC	hydrogen		



Column fixture



Wall fixture



Foot switch



In-line filters FS 60



In-line filters FS 25

TECHNICAL DATA		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	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)	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	
MATERIAL	Pump head	PP, PVDF or PTFE	PP, PVDF or PTFE	PP, PVDF or PTFE	PP, PVDF or PTFE
	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated	PTFE-coated
	Valves	FFKM	FFKM	FFKM	FFKM
ACCESSORIES	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
	Footswitch 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, 0.5l				
	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)				

TECHNICAL DATA		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	
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	-	
ACCESSORIES	Protective cover heating bath	Order no. 127204	Order no. 127204	
	Refill valve	Order no. 300639	Order no. 300639	
	Coolant valve	Order no. 300853		
	Vacuum seal	Order no. 113046	Order no. 113046	



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