

AN EYE FOR DETAIL

RETHINKING EVERYDAY LAB PRACTICE

What aspects do you believe are key when using vacuum pumps in everyday lab practice? What does it take to create simple, economical processes that are reliable day in, day out? And what makes work enjoyable?

These are the questions we used as a guide when redesigning our successful laboratory pump series LABOPORT®. We became involved in daily lab work, asking users what they wished for, enlisting experts to perform tests and incorporating their suggestions.

The result? Clever, elegant design with clear benefits in terms of handling and functionality.

HELLO,
NEW
LABOPORT!



WE KNOW WHAT COUNTS

UNIQUE DESIGN, EASE OF USE

- **Exceptionally space saving**
The impressively compact device takes up little space.
- **Easy to clean**
The smooth surfaces without any ribs or hard edges are easy to keep clean.
- **ATEX-compliant and chemically resistant for very aggressive/corrosive gases**
The inner, wetted area has been equipped to transfer explosive atmospheres.



Speed-controlled
The speed can be controlled by simply manually adjusting the vacuum power using the control knob or via an interface by connecting the pump to KNF's VC 900 controller. Ideal for combining with all common vacuum controllers with valve control.



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

Blue: in operation

Green: stand-by

Red: error

■ **Integrated gas ballast valve**
This valve supports short processing times even with solvents with a high boiling point, which protects the pump head.

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

■ **Modular expandable**
For the safe recovery of solvents: The new LABOPORT® vacuum pumps are also available with a separator and a high performance condenser. As a custom-fit vacuum system for your laboratory.





TECHNICAL DATA

AN ALL-ROUNDER
IN THE LAB




HELLO,
NEW
LABOPORT
SYSTEMS!



		LABOPORT® N 96	LABOPORT® N 820 G  II 2/-G IIB+H2 T3 internal atmosphere only	LABOPORT® N 840 G  II 2/-G IIB+H2 T3 internal atmosphere
APPLICATION	Filtration	x		x
	Vacuum Oven		x	x
	SPE	x		
	Degassing		x	x
	Fluid aspiration	x	x	x
	Gel drying		x	
	Rotary evaporation		x	x
	Centrifugal concentration			x
TECHNICAL DATA	Flow rate (m³/h) at atm. pressure	0.4	1.2	2.04
	Ultimate vacuum (mbar abs.)	<130	6	6
	Operating pressure (bar)	2.5	0.1	0.1
	Hose connections (mm)	NPT 1/8 – ID6, PP	ID 9.5–8, PVDF	ID 9.5–8, PVDF
	Permissible media and ambient temperature	+5 ... +40 °C	+5 ... +40 °C	+5 ... +40 °C
	Integrated gas ballast valve	No	Yes	Yes
	Integrated rotational speed control	Yes	Yes	Yes
	Weight (kg)	1.3	8.8	11.3
	Dimensions W x H x D (mm)	156 x 119 x 75	163 x 220 x 259	177 x 240 x 289
MATERIAL	Pump head	PPS	PTFE	PTFE
	Diaphragm	PTFE-coated	PTFE-coated	PTFE-coated
	Valves	FKM	FFPM	FFPM
ACCESSORIES	Column fixture	Order no. 323484		

ATEX KEY FOR LABOPORT N 820 G AND N 840 G AND THE TRANSFERABLE, EXPLOSIVE GASES AND VAPORS:

 II 2/-G IIB+H2 T3 INTERNAL ATMOSPHERE ONLY			
	T1	T2	T3
	methane		
I IA	acetone, ammonia, benzene (pure), acetic acid, ethane, ethyl acetate, carbon oxide, 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		

		LABOPORT® SR 820 G	LABOPORT® SH 820 G	LABOPORT® SR 840 G	LABOPORT® SH 840 G
APPLICATION	Filtration	x		x	
	Vacuum Oven	x		x	
	Degassing			x	
	Fluid aspiration	x			
	Distillation		x		x
	Rotary evaporation		x		x
	Centrifugal concentration	x		x	
	Multi-user vacuum systems		x		x
TECHNICAL DATA	Flow rate (m³/h) at atm. pressure	1.2		2.04	
	Ultimate vacuum (mbar abs.)	6			
	Operating pressure (bar)	0.1			
	Hose connections (mm)	ID 9.5–8, PVDF			
	Permissible media and ambient temperature	+5 ... + 40 °C			
	Integrated gas ballast valve	Yes			
	Integrated rotational speed control	Yes			
	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
MATERIAL	Pump head	PTFE			
	Diaphragm	PTFE-coated			
	Valves	FFPM			
ACCESSORIES	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			
	Hose connector PP (for hose ID8)	Order No. 025981			
	Screw connection cap red, GL14 (for hose connector ID 025981)	Order No. 025982			
	Key for hose connector	Order No. 316279			
	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			

