



Laboratory Vacuum Pump Systems with **LABOPORT**® Vacuum Pumps

SC800 Series

for rotary evaporators, vacuum ovens, concentrators

works with all brands of rotary evaporators

maintenance-free, no oil or water needed

corrosion-resistant PTFE wetted parts

flow range from 10 to 34 L/min

efficient, water-cooled condenser

programmable vacuum controller

clean, oil-free vacuum to 1.5 Torr

compact, quiet, reliable design



SC820

LABOPORT® Vacuum Systems

The reliable oil-free system for rotary evaporators, vacuum ovens

This lightweight, portable, vacuum system is designed for use with rotary evaporators and vacuum ovens. No additional components are needed. Use it also for general purpose work, such as gel dryers, filtration devices and concentrators.

Built to last, KNF pioneered the use of solid PTFE materials for vacuum pumps. Our products are well-known for their low-maintenance, sturdy design. Totally-enclosed ball-bearing motors, heads made of solid PTFE, efficient PTFE-coated diaphragms, and liquid-tolerant FFPM valves assure a long, trouble-free life, reducing total cost of ownership.

There's no more guessing at the vacuum level in your rotary evaporator. Simply choose the desired level and hysteresis on the controller front panel and let the system do the rest. Vacuum in mm Hg (Torr) or mbar is maintained at ±0.2% FS as displayed on the large, LED readout.

Setup is easy, with push-on hose barbs that eliminate special wrenches or fittings. There is no cramped cabinet enclosure that restricts component access.

System Selection Chart

Pump Model No.	Flow Rate L/min	Vacuum Torr (mbar)	Head Configuration	Wt. kg
Distillation of high BP solvents (>110°C)				
<i>Chlorobenzene, DMF, DMSO, isoamyl alcohol, xylene</i>				
SC842	34	1.5 (2)	two-stage	20
Reflux reactions/distillation of high BP solvents (80-110°C)				
<i>Water, heptane, isobutyl alcohol, toluene</i>				
SC842	34	1.5 (2)	two-stage	20
SC840	34	6 (8)	two-stage	19.3
Distillation of medium BP solvents (60-80°C)				
<i>Acetonitrile, benzene, chloroform, ethanol, ethyl acetate, hexane, methanol</i>				
SC840	34	6 (8)	two-stage	19.3
SC820	20	6 (8)	two-stage	16
Distillation of low BP solvents (35-60°C)				
<i>Acetone, methylene chloride, pentane</i>				
SC840	34	6 (8)	two-stage	19.3
SC820	20	6 (8)	two-stage	16

Specifications - All Models

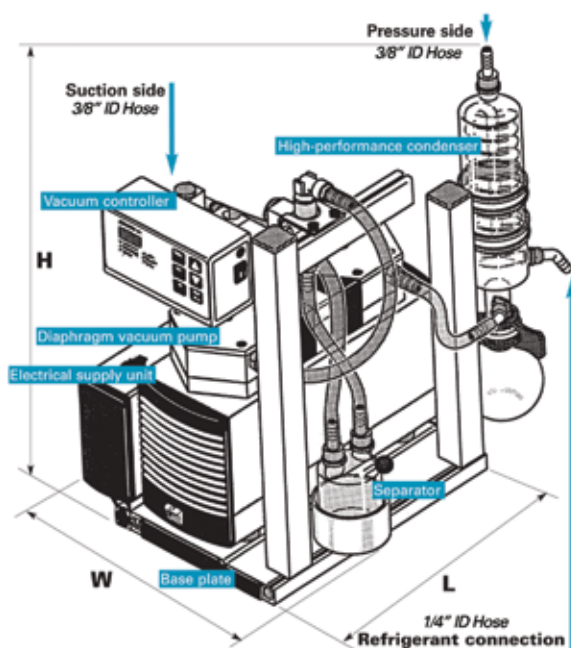
Ambient Temperature Range.....	+5°C to +40°C	Pumped Medium Temp. Range	+5°C to +40°C	Heads.....	PTFE
SC820 Dimensions (LxWxH)	40 x 29 x 51 cm	SC820 Power Consumption	120 Watts	Valves.....	FFPM
SC840, 842 Dimensions (LxWxH).....	42 x 29 x 51 cm	SC840/842 Power Consumption	245 Watts	Diaphragms.....	PTFE

You should always check corrosion-resistance charts for compatibility with the chemicals used in your laboratory. KNFLab® and LABOPORT® are registered trademarks of KNF Neuberger GmbH. Specifications subject to change without notice. Other LABOPORT® vacuum pump types available. Visit www.knflab.com for details and a list of distributors.

- controller assures repeatable results
- corrosion-resistant PTFE wetted parts
- clean, oil-free uncontaminated vacuum
- no aspirator waste to dispose of
- reliable, maintenance-free design

Repeatable results are assured, batch after batch, without guesswork, disruptive foaming or boiling. Enter five unique settings into the non-volatile memory, and move among them, even while processing. The purge button instantly vents the system with air or external gas source.

The complete system includes a LABOPORT® pump, a NC800 pump controller, all firmly mounted on a lightweight alloy stand. The vacuum controller works best when used with KNF diaphragm pumps.



Consider the **SC920** and **SC950** systems' with a wireless controller, that lets you stay safe behind the sash while adjusting the system.

Contact KNF or your favorite lab equipment distributor.

KNF NEUBERGER, INC.

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www.knflab.com

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