



*first class pumps for first class science*

## Corrosion-Resistant Vacuum Systems for the Laboratory

### LABOPORT<sup>®</sup> Oil-Free Diaphragm Pumps

for rotary evaporators, vacuum ovens, concentrators

works with all brands of rotary evaporators

maintenance-free, no oil or water

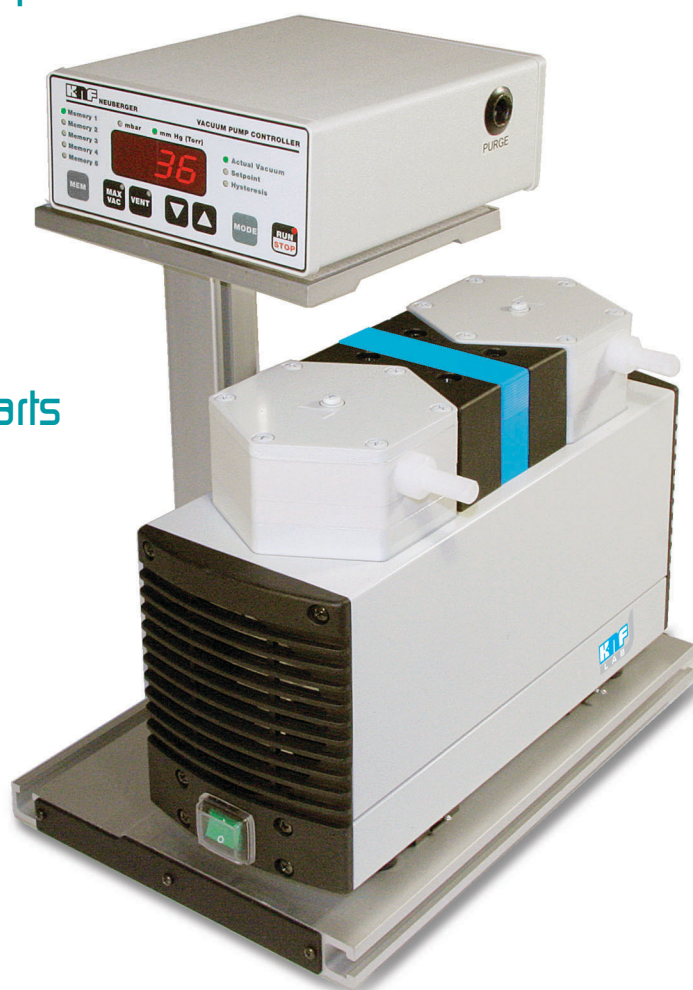
programmable vacuum controller

compact, quiet, reliable design

corrosion-resistant PTFE wetted parts

clean, oil-free vacuum to 1.5 Torr

flow range from 20 to 34 Lit/min



# LABOPORT® Vacuum Systems

## The reliable oil-free pump for rotary evaporators, vacuum ovens

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

• **Built to last** - KNF pioneered in the use of solid PTFE materials for its vacuum pumps. Our products are legendary for their premium, low-maintenance, sturdy design. A totally-enclosed, ball-bearing motor, heads made of solid PTFE, efficient PTFE-bonded diaphragms, and liquid-tolerant FPM valves assure a long, trouble-free life, reducing total cost of ownership.

The controller's tough, FPM perfluoroelastomer valves and corrosion-resistant ceramic sensor avoid downtime and expensive, off-site repair costs.

• **System features** - Lightweight and portable, carry the system to anywhere you need vacuum. There's no more guessing at the vacuum level in your rotary evaporator either, 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, bright LED readout.

• **User-friendly setup** - Because we listened to valuable feedback from lab users like yourself, we built-in the features you wanted most. Push-on hose barbs eliminate special wrenches or fittings. No cramped cabinet enclosures.

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

• **A versatile vacuum system** - A complete system includes a LABOPORT® pump, a UNC800 pump controller, mounted on a lightweight alloy stand. The vacuum controller works best when used with KNF diaphragm pumps. Controller not suitable for use with PowerDry® self-cleaning pumps.

• **Repeatable result 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. A purge button instantly vents the system with room air or external gas source.

### Selection Chart

System Model Number	Included PumpType	Capacity Lit/min	Vacuum Torr ("Hg)	Weight kg	List Price
<b>Distillation of high BP solvents (&gt;110°C)</b> Chlorobenzene, DMF, DMSO, isoamyl alcohol, xylene					
<b>USC842</b>	N842.3FTP	34	1.5 (29.86)	18	Call
<b>Distillation of low to medium BP solvents (60-110°C)</b> Acetonitrile, benzene, chloroform, ethanol, ethyl acetate, hexane, water, toluene					
<b>USC840</b>	N840.3FTP	34	6 (29.7)	18	Call
<b>USC820</b>	N820.3FTP	20	6 (29.7)	15	Call
<b>Vacuum Controller only</b>					
<b>UNC800</b>	Controller only		atm. to 1 Torr	1.4	Call

### Specifications - All Models

Ambient Temperature Range ..... +5°C to +40°C	Pumped Medium Temp. Range ... +5°C to +40°C	Heads ..... PTFE
System Dimensions (LxWxH) ..... 33 x 20 x 41 cm	Controller switching capacity ..... 115 VAC 8 Amps	Valves ..... FPM
Controller Dimensions (LxWxH) ... 19 x 14 x 17 cm	Hose Connector ..... 3/8" ID Hose	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](http://www.knflab.com) for details and a list of distributors.



**KNF vacuum systems are available from your favorite lab equipment distributor or directly from KNF.**

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