



# LABORATORY VACUUM PUMPS LABOPORT® SERIES

The ideal pumps for use with:

- Rotary evaporators
- Vacuum ovens
- Concentrators
- and more...

# LABOPORT® VACUUM PUMPS

## CORROSION RESISTANT

Chemically resistant PTFE heads, FFKM valves, and PTFE-bonded diaphragms for maximum performance and outstanding product life, even when handling aggressive vapors.

## OIL-FREE

Clean, non-contaminating, and maintenance free.

## COMPACT AND QUIET

A welcome addition to your lab. LABOPORT® pumps are easily carried to wherever you need vacuum.

PUMP SELECTION CHART			
Pump Model No.	Flow Rate L/min	Vacuum Torr (mbar)	Head Configuration
<b>Distillation of high BP solvents (&gt;110°C)</b> <i>Chlorobenzene, DMF, DMSO, isoamyl alcohol, xylene</i>			
N 842.3 FTP	34	1.5 (2)	two-stage
<b>Reflux reactions/distillation of high BP solvents (80-110°C)</b> <i>Water, heptane, isobutyl alcohol, toluene</i>			
N 842.3 FTP	34	1.5 (2)	two-stage
N 840.3 FTP	34	6 (8)	two-stage
<b>Distillation of medium BP solvents (60-80°C)</b> <i>Acetonitrile, benzene, chloroform, ethanol, ethyl acetate, hexane, methanol</i>			
N 840.3 FTP	34	6 (8)	two-stage
N 820.3 FTP	20	6 (8)	two-stage
<b>Distillation of low BP solvents (35-60°C)</b> <i>Acetone, methylene chloride, pentane</i>			
N 840.3 FTP	34	6 (8)	two-stage
N 820.3 FTP	20	6 (8)	two-stage
N 810.3 FTP	10	6 (8)	two-stage
<b>Large scale evaporation Vessels &gt;10 Liters</b>			
N 860.3 FTP	60	1.5 (2)	two-stage
N 840.1.2 FTP	65	68 (90)	single-stage
<b>Large vacuum ovens Chamber capacity &gt;30 Liters</b>			
N 860.3 FTP	60	1.5 (2)	two-stage
<b>Medium vacuum ovens Chamber capacity 15-30 Liters</b>			
N 842.3 FTP	34	1.5 (2)	two-stage
N 840.3 FTP	34	6 (8)	two-stage
<b>Small vacuum ovens Chamber capacity &lt;15 Liters</b>			
N 842.3 FTP	34	1.5(2)	two-stage
N 820.3 FTP	20	6 (8)	two-stage
<b>Large scale vacuum concentration</b>			
N 860.3 FTP	60	1.5 (2)	two-stage
<b>Vacuum concentration</b>			
N 842.3 FTP	34	1.5 (2)	two-stage
N 840.3 FTP	34	6 (8)	two-stage
<b>Gel drying</b>			
N 820.3 FTP	20	6 (8)	two-stage

COMPLETE PUMP SUMMARY				
Pump Model No.	Flow Rate L/min	Vacuum Torr (mbar)	Head Config.	Wt. kg
N 810 FTP	10	75 (99)	single-stage	7.2
N 820 FTP	20	75 (99)	single-stage	9.5
N 840 FTP	34	75 (99)	single-stage	10.3
N 840.1.2 FTP	65	68 (90)	single-stage	12.6
N 860.1.2 FTP	110	75 (99)	single-stage	14.8
N 810.3 FTP	10	6 (8)	two-stage	7.2
N 820.3 FTP	20	6 (8)	two-stage	9.5
N 840.3 FTP	34	6 (8)	two-stage	12.6
N 842.3 FTP	34	1.5 (2)	two-stage	13.3
N 860.3 FTP	60	1.5 (2)	two-stage	14.8

**Pumping saturated vapors?** Above pumps are available with our PowerDry® system. It automatically injects a burst of ambient air into the pump heads, clearing any trapped liquids without disturbing system vacuum levels. Call us or visit our website for details.

PHYSICAL SPECIFICATIONS	
Ambient Temperature Range	+5°C to +40°C
Medium Temp Range	+5°C to +40°C
Hose Size	N 860 1/2"ID, all others 3/8"ID
N 810 dimensions L x W x H	28 x 14 x 19 cm
N 820 dimensions L x W x H	32 x 16 x 20 cm
N 840, N 842 dimensions L x W x H	33 x 17 x 22 cm
N 860 dimensions L x W x H	33 x 29 x 28 cm
Heads	Solid PTFE
Valves	FFPM
Diaphragms	PTFE
Power	115V/60Hz*

\*Other power options available.

You should always check chemical resistance charts for compatibility with the chemicals used in your laboratory. LABOPORT®, and PowerDry® are registered trademarks of KNF Neuberger GmbH. Specifications subject to change without notice. Other LABOPORT® pump models are available. Visit [www.knfusa.com/laboport](http://www.knfusa.com/laboport) for details and a list of distributors.