



Diaphragm Pumps for Air, Gases and Vapors



LABOPORT® Chemically Resistant Diaphragm Vacuum Pumps

Technical features:

- 100% oil-free transfer
- Pure transferring and evacuation of gases
- Highly compatible with vapors and condensation
- Chemically resistant
- Suitable for highly aggressive or corrosive gases and vapors
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx. 6×10^{-3} mbar x L/s, not tested in serial production.

Series LABOPORT® N 810 FTP, N 810.3 FTP Pumps

The chemically resistant series N 810 and N 810.3 diaphragm pumps are single- and double-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump down without contamination.

The heart of these very compact pumps is a KNF structured diaphragm. This patented diaphragm was stress-optimized using the Finite Elements method. As a result, we were able to make the pumps smaller while increasing the service life of the diaphragm.

Material in contact with the pumped media

Type/Order No.	Pump head	Diaphragm	Valves
N 810 FTP	PTFE	PTFE-coated	FFPM
N 810.3 FTP	PTFE	PTFE-coated	FFPM

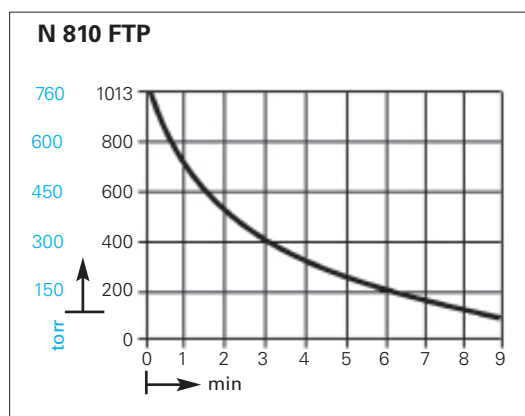
Technical data:	N 810 FTP	N 810.3 FTP
Delivery (L/min) ¹⁾	10	10
Ultimate vacuum (torr)	75	6
Operating pressure (psi)	15	15
Connectors for tube (in.)	ID 3/8"	ID 3/8"
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage / Frequencies	115 V/60 Hz	115 V/60 Hz
Mains	IP 44	IP 44
Power P ₁	110 W	110 W
Operating current	1.3 A	1.3 A
Weight	13 lbs	15 lbs
Dimensions		
L x H x W (mm)	256/187/146	281/187/140
With thermal switch and power fuse		

Motors with other voltages & frequencies available upon request.

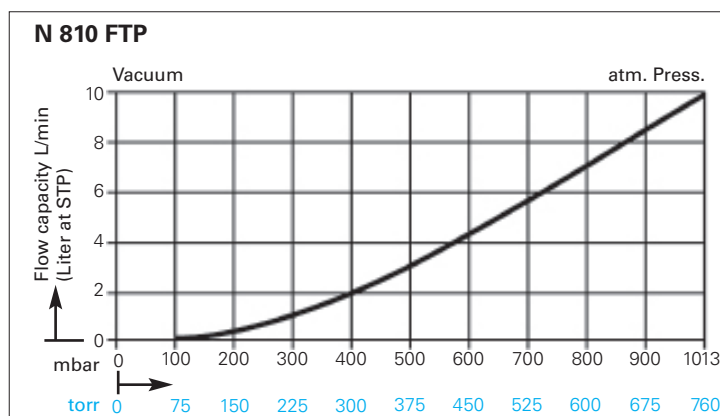
¹⁾ at atm. pressure

Dimensions and performance characteristics

Pump down time for 10L receiver

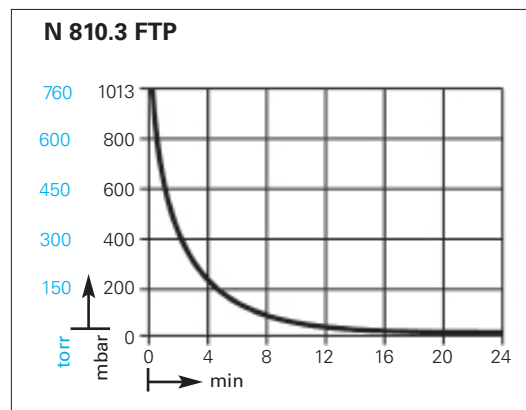


Performance characteristics

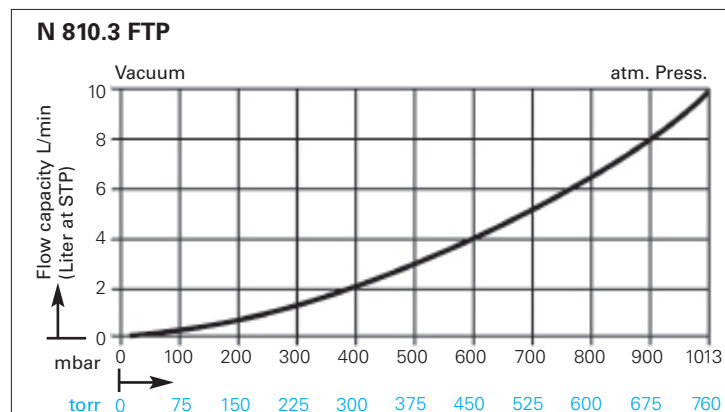




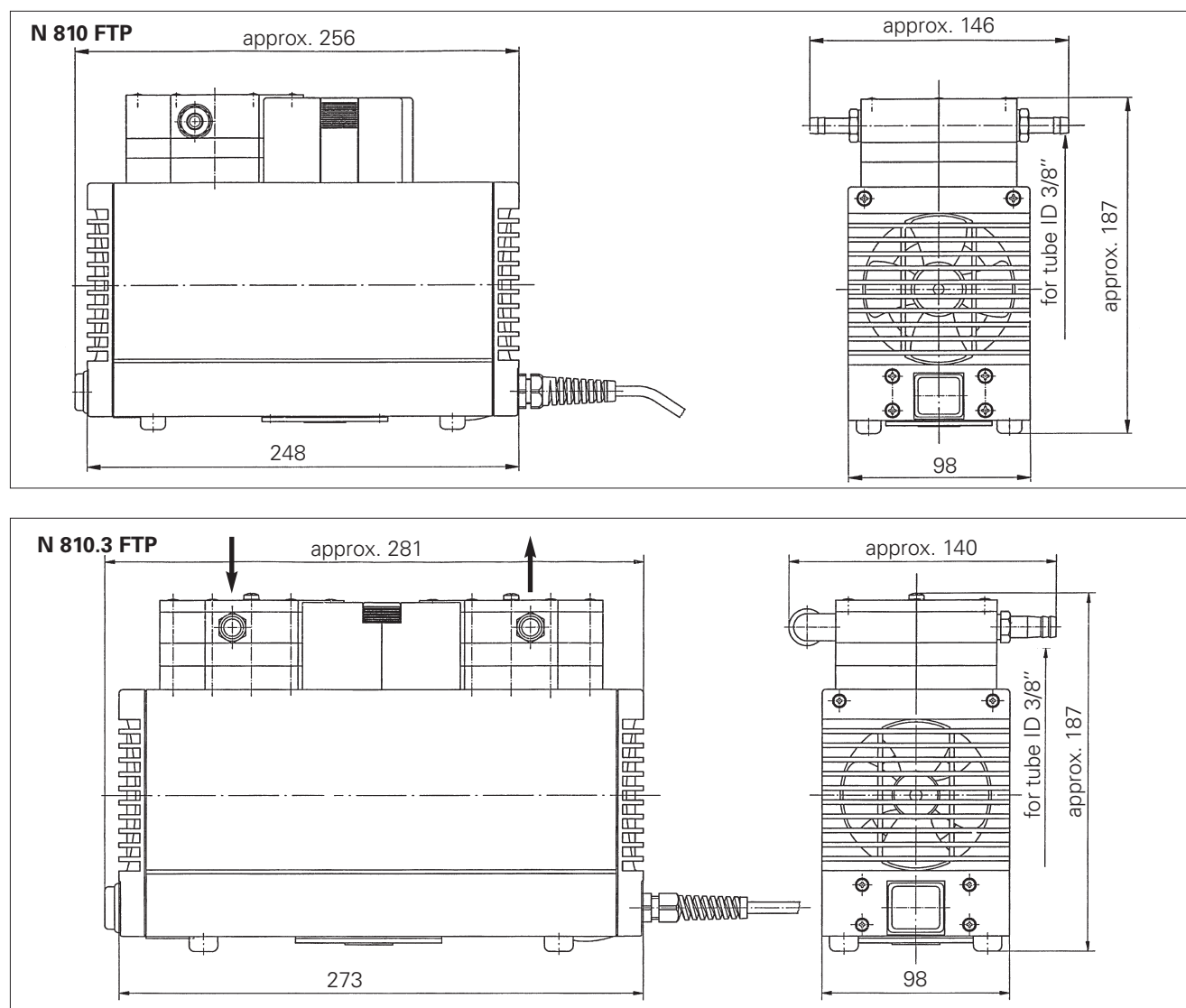
Pump down time for 10L receiver



Performance characteristics



Dimensions (mm)



Spare parts

Description	Details	Order No.
Spares kit	for N 810 FTP	072778
Spares kit	for N 810.3 FTP	072778 (quantity x2)

KNF Neuberger Inc. | 2 Black Forest Road, Trenton, NJ 08691 | Tel: (609) 890-8600 | www.knfusa.com | knfusa@knf.com

Performance characteristics provided herein are for comparative purposes only. Actual data may vary. Please contact a KNF representative for information.
Rev: Mar-2014