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Diaphragm Pumps for Air, Gases and Vapors

INNOVATIVE
TECHNOLOGY
WORLDWIDE

KNF NEUBERGER, INC.

LABOPORT® Diaphragm Vacuum Pumps

Technical features:

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

Series LABOPORT® N820FTP, N820.3FTP Pumps

The chemically-resistant series N820 and N820.3 diaphragm pumps are single- and double-head, oil-free 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
N820FTP	PTFE	PTFE-coated	FFPM
N820.3FTP	PTFE	PTFE-coated	FFPM

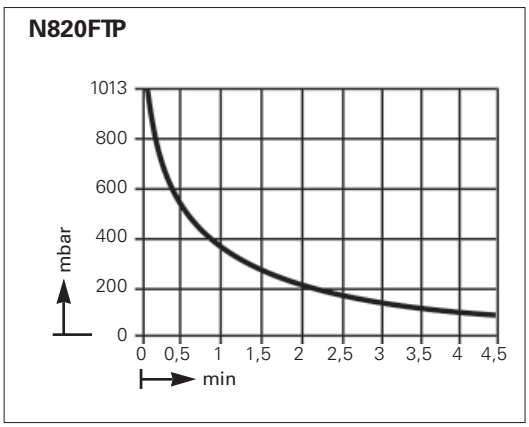
Technical data:	N820FTP	N820.3FTP
Delivery (l/min)[1)]	20	20
Ultimate vacuum (Torr)	75	6
Operating pressure (psi)	15	15
Connectors for tube (in.)	ID 3/8"	ID 3/8"
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	115V/60Hz	115V/60Hz
Motor protection	IP 44	IP 44
Power P_1	145 W	130 W
Operating current	1.9 A	1.2 A
Weight	15.6 lbs.	20.5 lbs.
Dimensions L x H x W (mm)	268/207/159	312/207/154
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

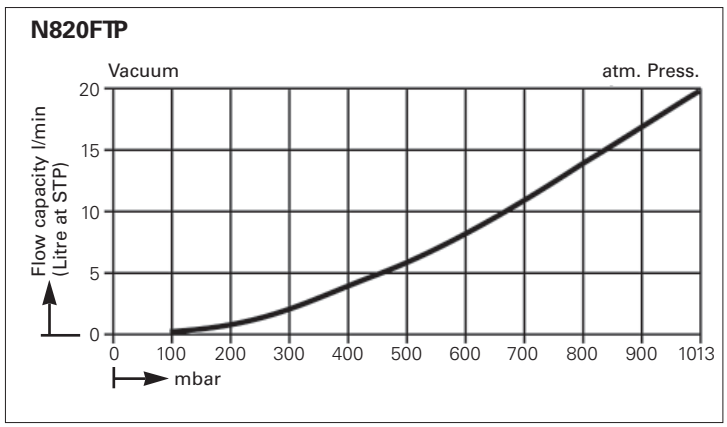
[1)] at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



KNF reserves the right to make changes.

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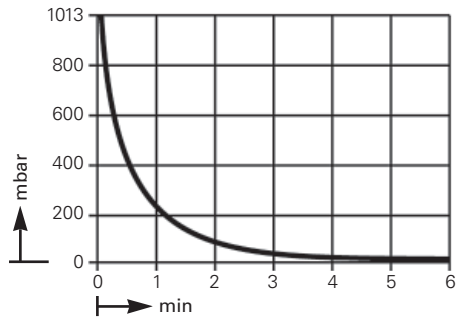
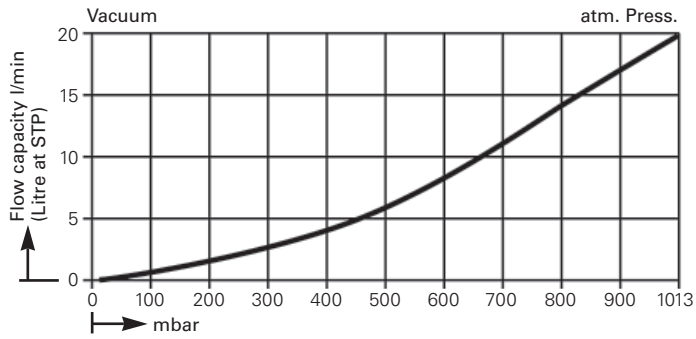
Pump down time for 10 l receiver

N820.3FTP



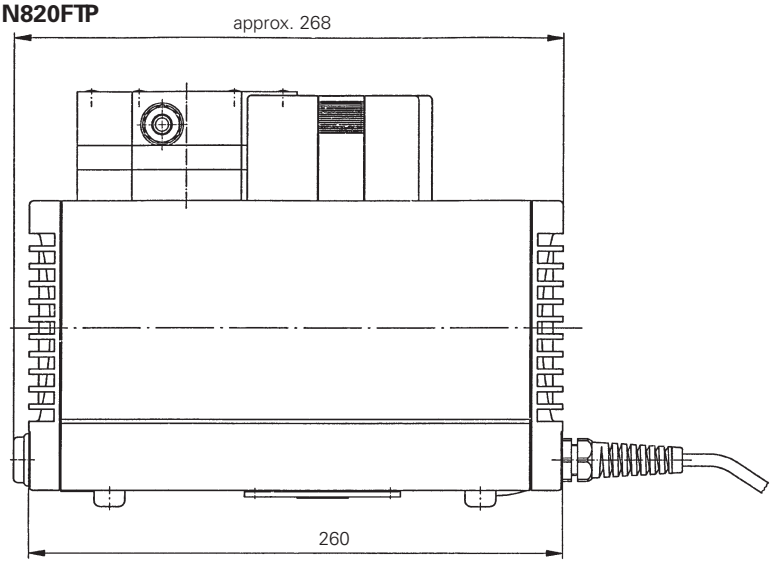
Performance characteristics

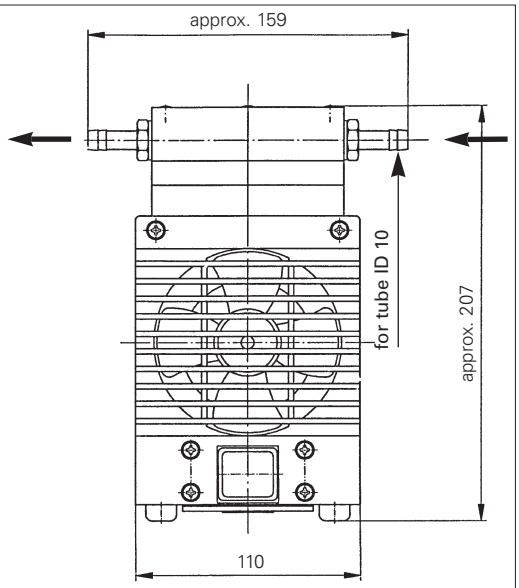
N820.3FTP



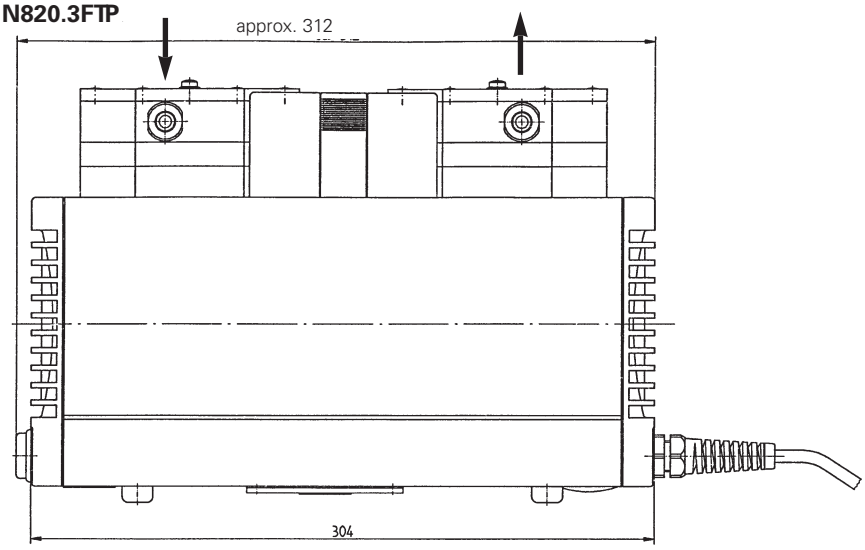
Dimensions (mm)

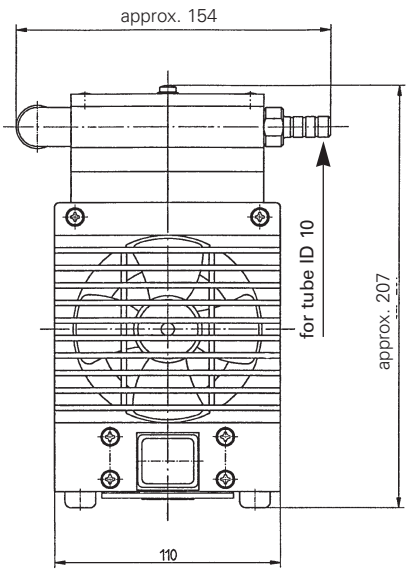
N820FTP





N820.3FTP





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