Diaphragm Pumps for Air, Gases and Vapours

INNOVATIVE TECHNOLOGY WORLDWIDE

KNF NEUBERGER

Series LABOPORT®
N 810 FT.18, N 810.3 FT.18 Pumps

LABOPORT® Chemically-resistant Diaphragm Vacuum Pumps

Technical features:

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

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 FT.18	PTFE	PTFE-coated	FFPM
N 810.3 FT.18	PTFE	PTFE-coated	FFPM

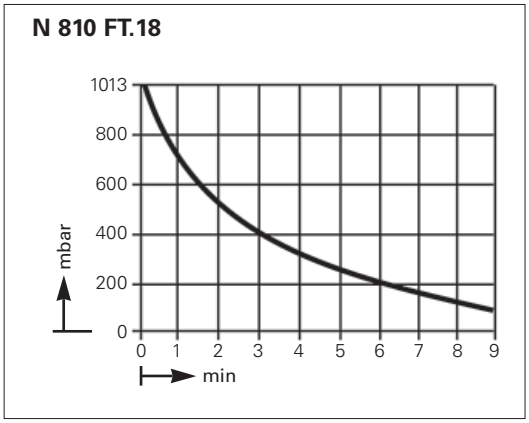
Technical data:	N 810 FT.18	N 810.3 FT.18
Delivery (l/min)[1]	10	10
Ultimate vacuum (mbar abs.)	100	8
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	230V/50Hz	230V/50Hz
Motor protection	IP 44	IP 44
Power P_1	100 W	90 W
Operating current	0.6 A	0.6 A
Weight	5.9 kg	6.9 kg
Dimensions LxHxW (mm) With thermal switch and power fuse	256/187/146	281/187/140

Motors with other voltages and frequencies on request.

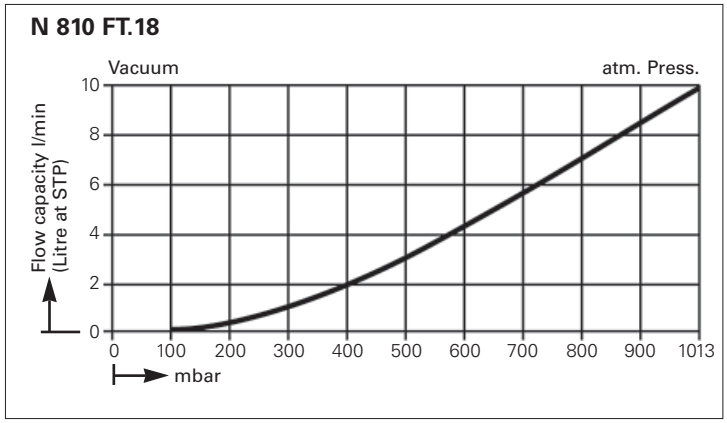
[1] at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



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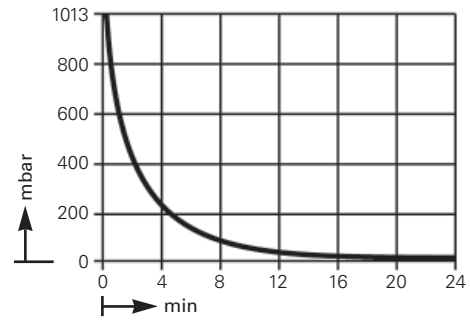
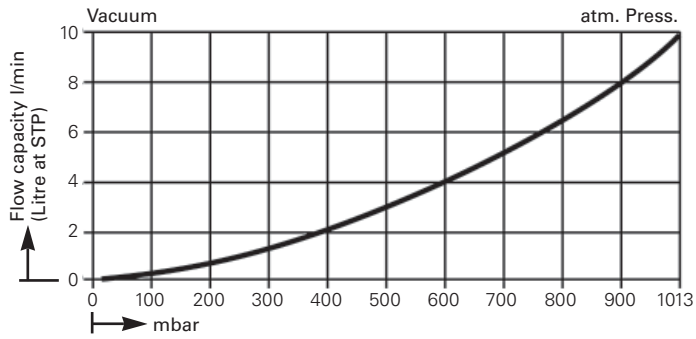
Pump down time for 10 l receiver

N 810.3 FT.18



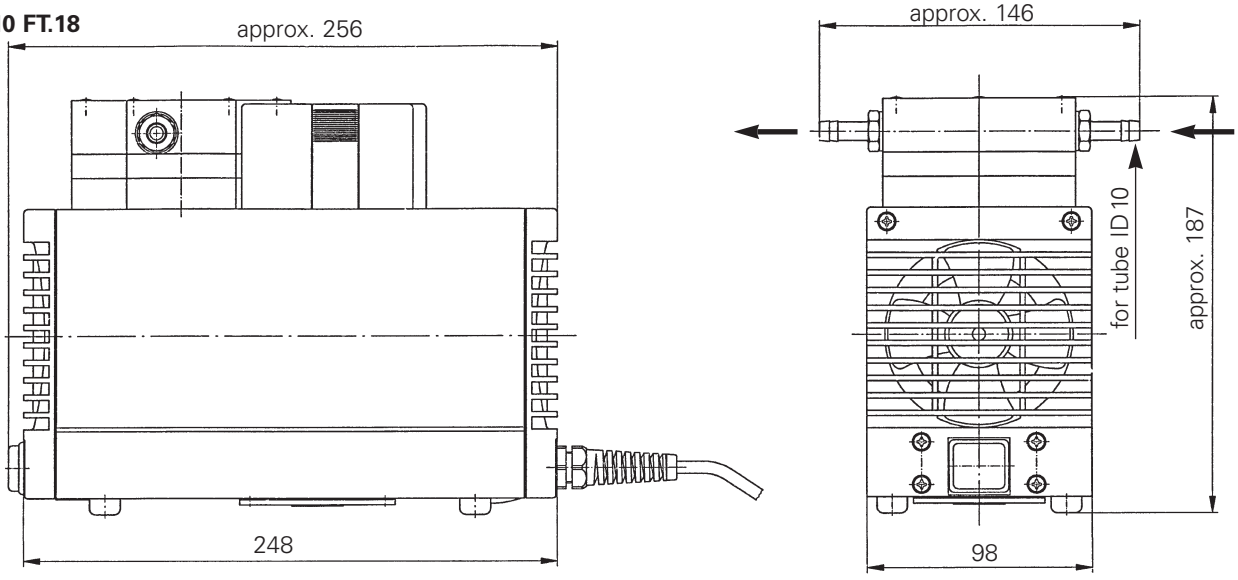
Performance characteristics

N 810.3 FT.18

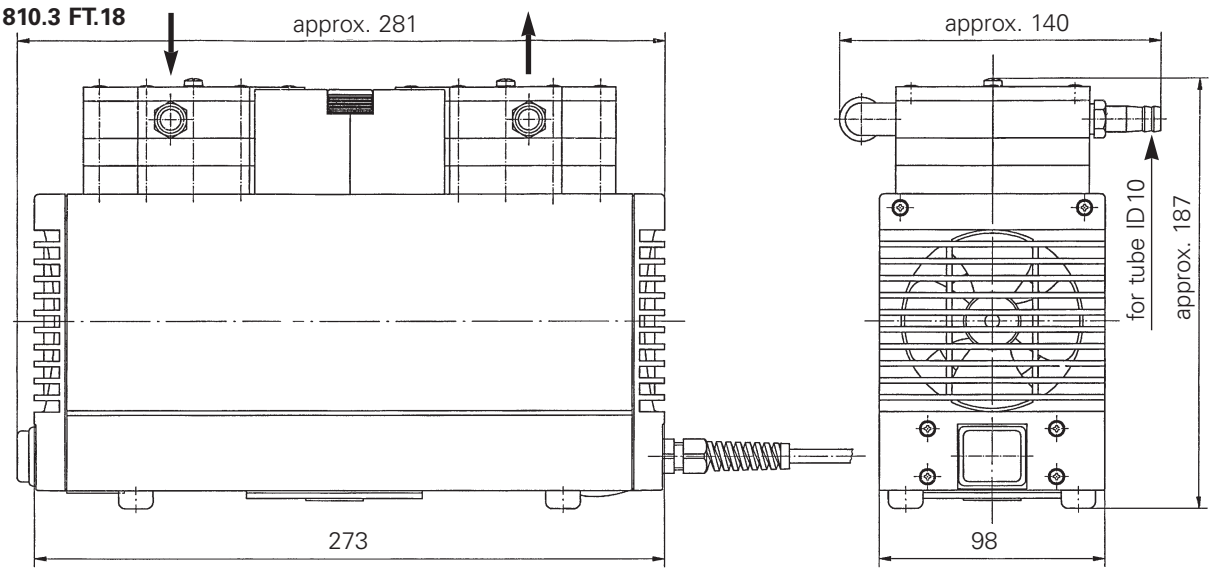


Dimensions (mm)

N 810 FT.18



N 810.3 FT.18



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