

Diaphragm Pumps for Air, Gases and Vapors

INNOVATIVE
TECHNOLOGY
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NEUBERGER, INC.



Series LABOPORT® N820.3ANP, N820.3ATP Pumps

Series N820.3 diaphragm pumps are 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.

The pumps are available in various versions differing in the materials which contact the media.

Material in contact with the pumped media

Type/Order No.	Pump head	Diaphragm	Valves
N 820.3 AN.18	Aluminium	CR	NBR
N 820.3 AT.18	Aluminium	PTFE-coated	FFPM

LABOPORT® Diaphragm Vacuum Pumps

Technical features:

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Highly compatible with vapors and condensation
- Version for slightly 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.

Technical data:

	N820.3ANP	N 820.3 ATP
Delivery (l/min) ¹⁾	22	20
Ultimate vacuum (Torr)	6	6
Operating pressure (psig)	15	15
Connectors for tube (mm)	ID 3/8"	ID 3/8"
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	115V/60Hz	115V/60Hz
Motor protection	IP 44	IP 44
Power P ₁	120 W	120 W
Operating current	0.7 A	0.7 A
Weight	9.3 kg	9.3 kg
Dimensions LxHxW (mm)	304/204/110	304/204/110
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

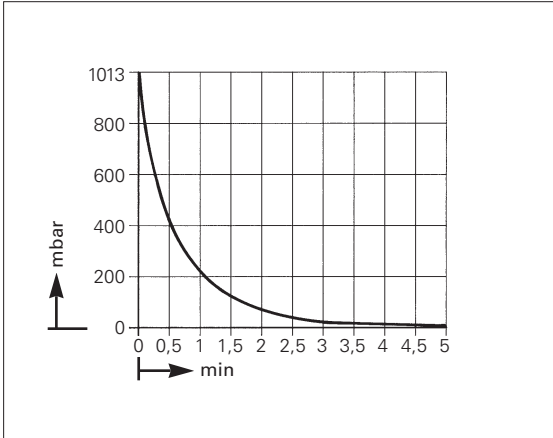
¹⁾ at atm. pressure

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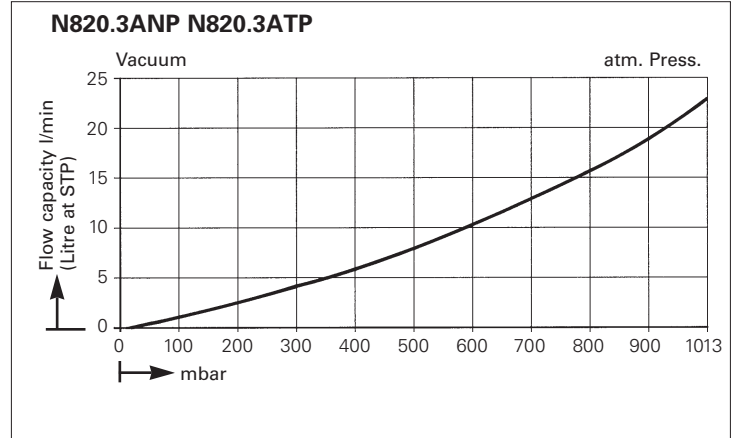


Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

