

# Diaphragm Pumps for Air, Gases and Vapors

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## Series LABOPORT® N820ANP Pumps

## LABOPORT® Diaphragm Vacuum Pumps

### Technical features:

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

Series N820 diaphragm pumps are single-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.

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

### Technical data:

	N820ANP	N820ATP
Delivery (l/min) <sup>1)</sup>	22	20
Ultimate vacuum (Torr)	75	75
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 <sub>1</sub>	145 W	145 W
Operating current	1.9 A	1.9 A
Weight	3.2 lbs.	3.2 lbs.
Dimensions LxHxW (mm)	261/204/110	261/204/110
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

<sup>1)</sup> at atm. pressure

### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N820ANP	Aluminum	CR	NBR
N820ATP	Aluminum	PTFE-coated	FFPM

## Accessories

Description	Details	Order No.
Silencer	G 1/4	007007
Hose connector	G 1/4, PVDF, AD 10 mm	004658

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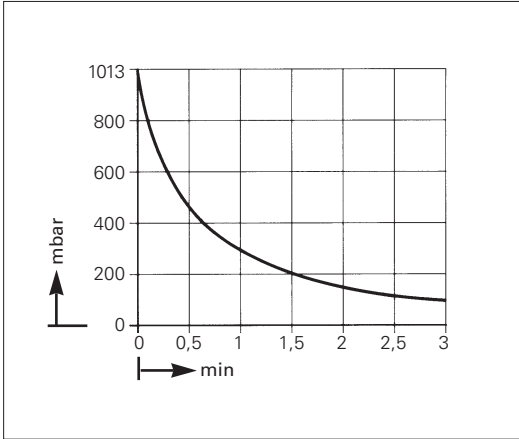
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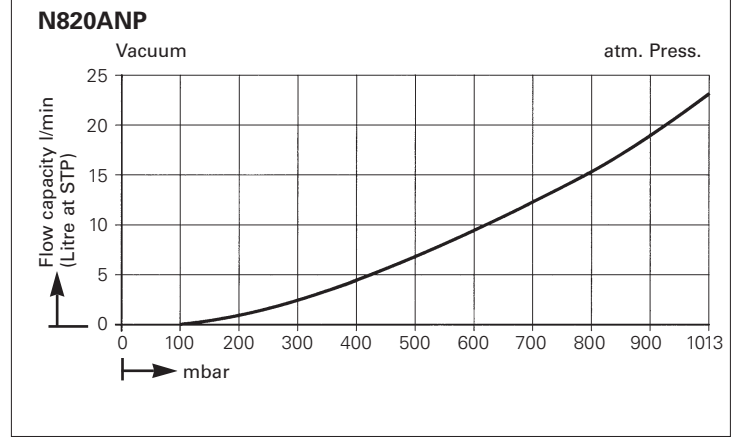
NEUBERGER, Inc.

## Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

