

# Diaphragm Pumps for Air, Gases and Vapours

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## Series LABOPORT® N 820 A\_.18 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 vapours
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

Series N 820 diaphragm pumps are single-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.

Technical data:	N 820 AN.18	N 820 AT.18
Delivery (l/min) <sup>1)</sup>	22	20
Ultimate vacuum (mbar abs.)	100	100
Operating pressure (bar g)	1	1
Connectors for tube (mm)	ID 9	ID 9
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 <sub>1</sub>	130 W	130 W
Operating current	0.9 A	0.9 A
Weight	7.1 kg	7.1 kg
Dimensions LxHxW (mm)	261/204/110	261/204/110
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

### Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 820 AN.18	Aluminium	CR	NBR
N 820 AT.18	Aluminium	PTFE-coated	FFPM

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

## Accessories

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

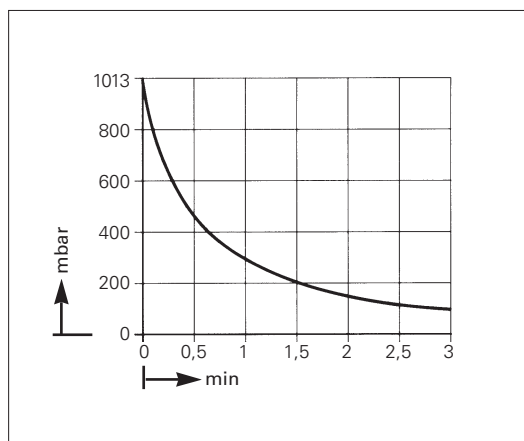
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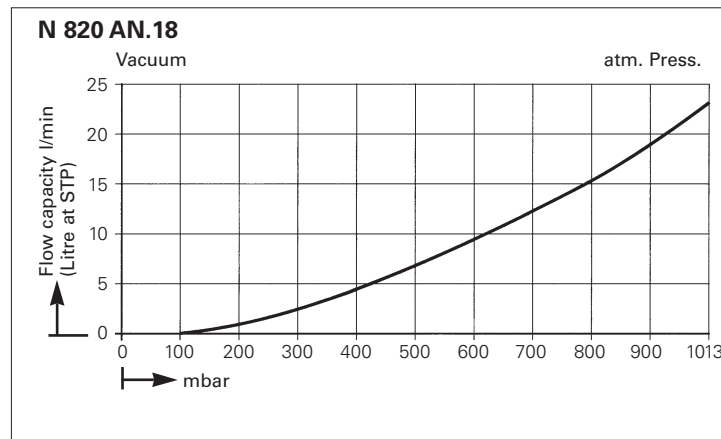
**KNF** NEUBERGER

## Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

