

Diaphragm Pumps for Air, Gases and Vapours

INNOVATIVE
TECHNOLOGY
WORLDWIDE

KNF NEUBERGER



Series LABOPORT® N 820.3 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. 6×10^{-3} mbar x l/s, not tested in serial production.

Series N 820.3 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.

Technical data:

	N 820.3 AN.18	N 820.3 AT.18
Delivery (l/min) ¹⁾	22	20
Ultimate vacuum (mbar abs.)	8	8
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 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	

Material in contact with the pumped media

Type/OrderNo.	Pump head	Diaphragm	Valves
N 820.3 AN.18	Aluminium	CR	NBR
N 820.3 AT.18	Aluminium	PTFE-coated	FFPM

Motors with other voltages and frequencies on request.

¹⁾ at atm. pressure

Accessories

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

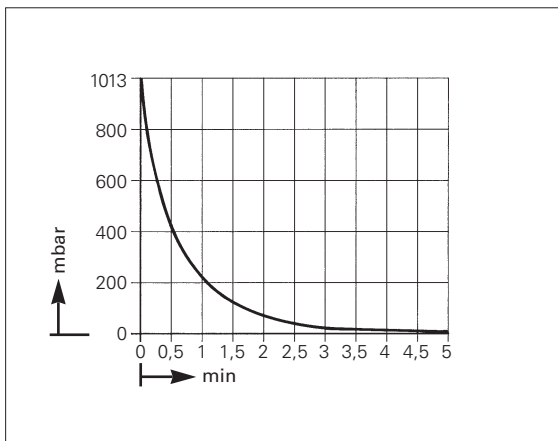
Diaphragm Pumps for Air, Gases and Vapours

INNOVATIVE
TECHNOLOGY
WORLDWIDE

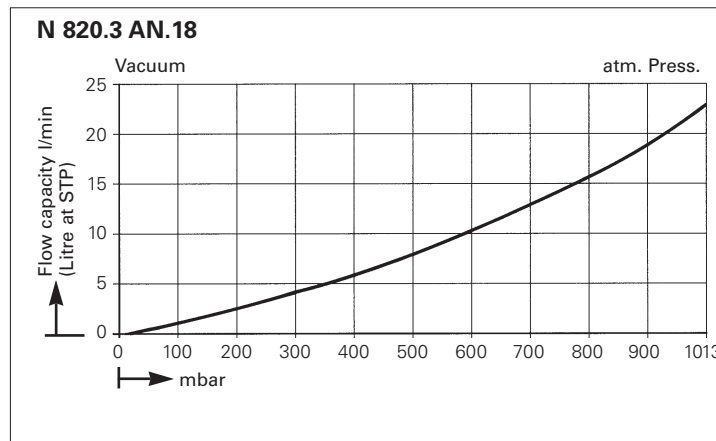


Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

