

# **Diaphragm Pumps for Air, Gases and Vapours**



# Series LABOPORT® N 820 FT.18, N 820.3 FT.18 Pumps

# LABOPORT® Chemicallyresistant Diaphragm Vacuum Pumps

### **Technical features:**

- 100% oil-free transfer
- Pure transferring and evacuation of gases
- 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<sup>-3</sup> mbar x l/s, not tested in serial production.

The chemically-resistant series N 820 and N 820.3 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

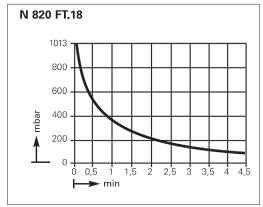
Type/Order No.	Pump head	Diaphragm	Valves
N 820 FT.18	PTFE	PTFE-coated	FFPM
N 820.3 FT.18	PTFE	PTFE-coated	FFPM

<u>Techni</u>	ical data:	N 820 FT.18	N 820.3 FT.18
Delive	ry (I/min) <sup>1))</sup>	20	20
Ultima	te vacuum		
(mbar	abs.)	100	8
Operat	ting pressure		
(bar g)		1	1
Conne	ctors for tube (mm)	ID 10	ID 10
Permis	ssible gas and		
ambier	nt temperature	+5+40 °C	+5+40 °C
Mains		230V/50Hz	230V/50Hz
Motor	protection	IP 44	IP 44
Power	$P_1$	130 W	120 W
Operat	ting current	0.9 A	0.7 A
Weigh	t	7.1 kg	9.3 kg
Dimen	sions LxHxW (mm)	268/207/159	312/207/154
With t	hermal switch and po	wer fuse	

Motors with other voltages and frequencies on request.

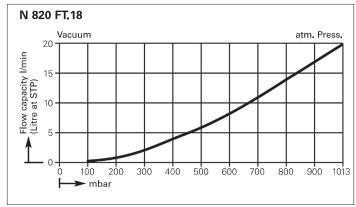
# **Dimensions and performance characteristics**

## Pump down time for 10 I receiver



#### KNF reserves the right to make changes.

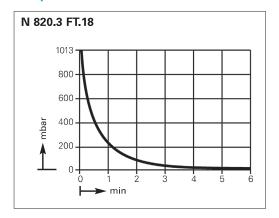
# **Performance characteristics**



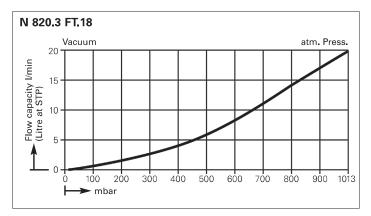
<sup>1)</sup> at atm. pressure



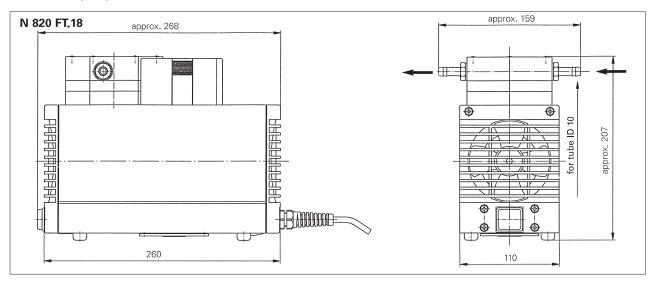
## Pump down time for 10 I receiver

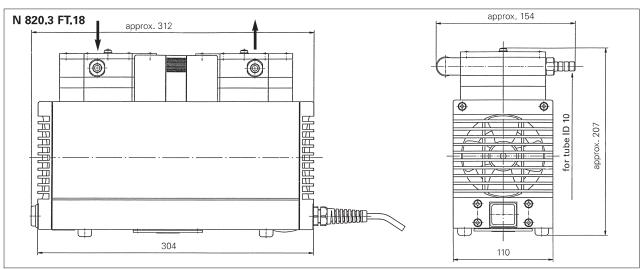


#### **Performance characteristics**



## **Dimensions (mm)**





# **Spare parts**

Description	Details	Order No.	
Spares kit	for N 820 FT.18	058078	
Spares kit	for N 820,3 FT,18	057358	

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