



## Diaphragm Pumps for Air, Gases and Vapours



With fine control valve and vacuum gauge (.45)

### LABOPOINT® Mini Diaphragm Vacuum Pumps

#### Technical features:

- 100% oil-free transfer
- Pure transferring and evacuation of gases
- Version for slightly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- High level of gas tightness.

### Series LABOPOINT® N 838.3 K ... .18 Pumps

Series N 838.3 diaphragm pumps are double-headed, 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 838.3 KN.18	PPS	EPDM	FPM
N 838.3 KN.45.18	PPS	EPDM	FPM
N 838.3 KT.18	PPS	PTFE-coated	FFPM
N 838.3 KT.45.18	PPS	PTFE-coated	FFPM

.45 = Pump with fine control valve and vacuum gauge

Technical Data:	N 838.3 KN.18	N 838.3 KT.18
	N 838.3 KN.45.18	N 838.3 KT.45.18
Delivery (l/min) <sup>1)</sup>	22	22
Vacuum (mbar abs.)	12	15
Pressure (bar)	0.5	0.5
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 20	IP 20
Power P <sub>1</sub>	80 W	80 W
Operating current	0.5 A	0.5 A
Weight	6.8 kg	6.8 kg
Dimensions		
LxHxB (mm)	402/212/110	402/212/110
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

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

### Accessories and spare parts

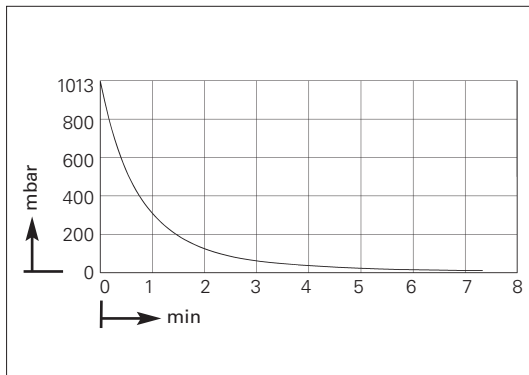
Description	Details	Order No.
Silencer	G 1/8	007006
Hose connector	G 1/8, PVDF, for tube ID 10 mm	112004
Fine control valve with vacuum gauge	suction side	112432
Spare kit	for N 838.3 KN	111952
Spare kit	for N 838.3 KT	111953



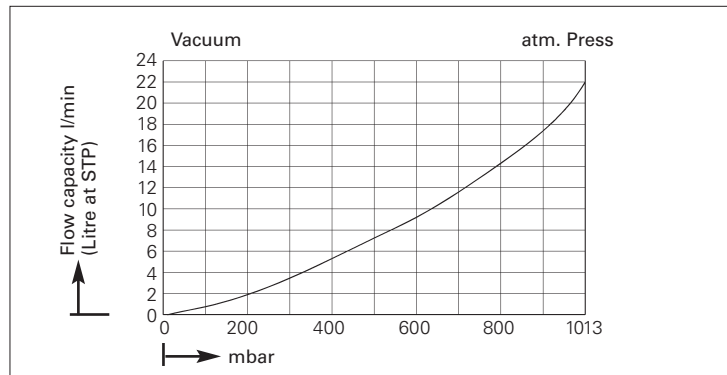
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## Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics



### Dimensions (mm)

