

# Diaphragm Pumps for Air, Gases and Vapors

INNOVATIVE  
TECHNOLOGY  
WORLDWIDE



## LABOPORT® Filtration Diaphragm Vacuum Pumps

### Technical features:

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Use KT version for slightly aggressive or corrosive gases and vapors
- Maintenance-free
- Environmentally friendly, no oil or water waste
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

### LABOPORT® Series N838.1.2KNP, N838.1.2KTP Pumps

Series N838.1.2 diaphragm pumps are parallel-head, dry-running devices used in a wide range of laboratory applications. They transfer and pump gases 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. It is very lightweight and transportable. 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 838.1.2 KNP	PPS	EPDM	EPDM
N 838.1.2 KN.45P	PPS	EPDM	EPDM
N 838.1.2 KTP	PPS	PTFE-coated	FFPM
N 838.1.2 KT.45	PPS	PTFE-coated	FFPM

.45 = Pump with fine control valve and vacuum gauge

#### Technical data:

	N 838.1.2 KNP N 838.1.2 KN.45P	N 838.1.2 KTP N 838.1.2 KT.45P
Free-flow (l/min)	37	37
Vacuum Torr, (in.Hg)	75 (27)	113 (25.5)
Pressure (psig)	7.4	7.4
Connectors for tube (mm)	ID 10	ID 10
Permissible gas and ambient temperature	+5 to +40 °C	+5 to +40 °C
Power	115V/60Hz	115V/60Hz
Motor protection	IP 20	IP 20
Power Watts	80	80
Operating current Amps	0.5	0.5
Weight kg	6.8	6.8
Dimensions LxHxB (mm)	404/210/110	404/210/110
With thermal switch and power fuse		

230V/50Hz models available on request.

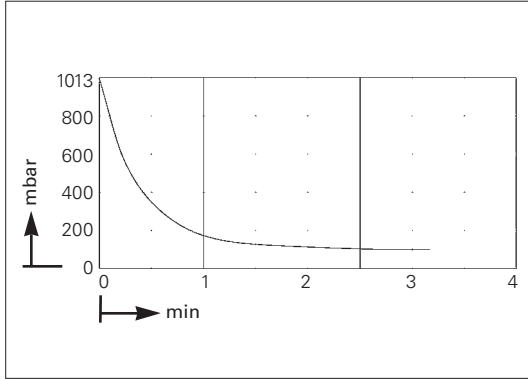
1) At atm. pressure 2) With thermal switch and power fuse

# Diaphragm Pumps for Air, Gases and Vapors

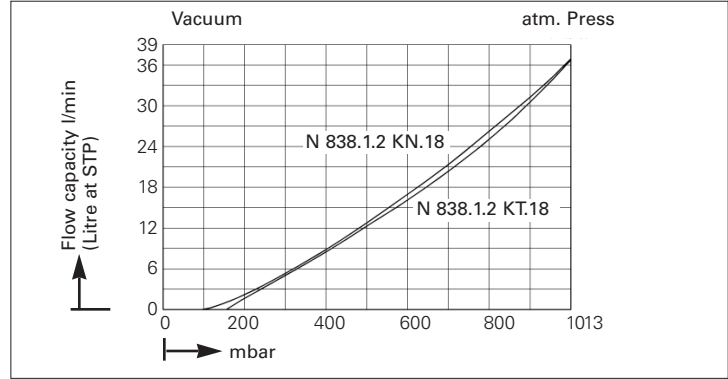


## Dimensions and performance characteristics

Pump down time for 10 Liter receiver



Performance characteristics



### Dimensions (mm)

