

# Diaphragm Pumps for Air, Gases and Vapors

INNOVATIVE  
TECHNOLOGY  
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## 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 N838.3KNP, N838.3KTP Pumps

Series N838.3 diaphragm pumps are two-stage, 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.

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 KNP	PPS	EPDM	EPDM
N 838.3 KN.45P	PPS	EPDM	EPDM
N 838.3 KTP	PPS	PTFE-coated	FFPM
N 838.3 KT.45P	PPS	PTFE-coated	FFPM

.45 = Pump with fine control valve and vacuum gauge

Technical Data:	N838.3KNP N838.3KN.45P	N838.3KTP N838.3KT.45P
Delivery (l/min) <sup>1</sup>	22	22
Vacuum Torr (in. Hg)	9 (29.6)	11 (29.5)
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 <sup>2</sup>	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

230V/50Hz models available on request.

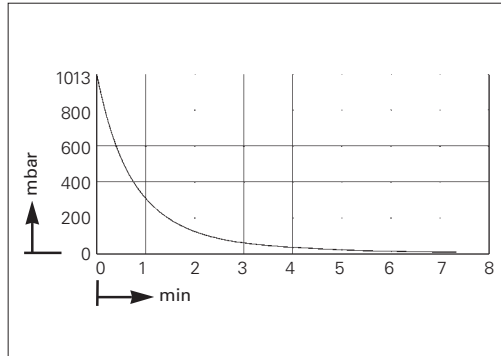
1) At atm. pressure 2) With thermal switch and power fuse

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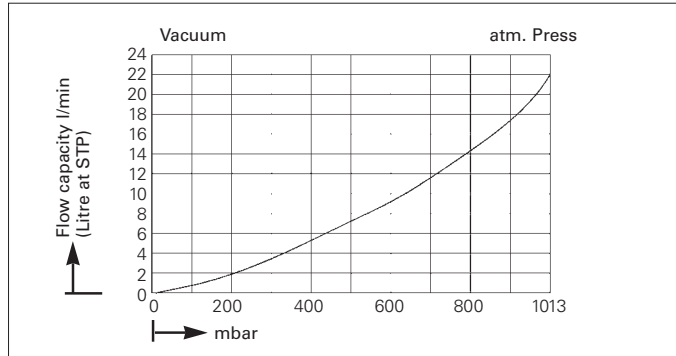


## Dimensions and performance characteristics

Pump down time for 10 Liter receiver



Performance characteristics



### Dimensions (mm)

