Diaphragm Pumps for Air, Gases and Vapours

INNOVATIVE
TECHNOLOGY
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KNF NEUBERGER

Series LABOPORT®
N 811 K_.18 Pumps

LABOPORT®
Mini Diaphragm Vacuum Pumps and Compressors

Technical features:

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

Series N 811 diaphragm pumps are single-head, dry-running devices used in a wide range of laboratory applications. They transfer, compress 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 811 KN.18	PPS	EPDM	FPM
N 811 KT.18	PPS	PTFE-coated	FFPM

Technical data:	N 811 KN.18	N 811 KT.18
Delivery (l/min)[1]	11.5	11.5
Ultimate vacuum (mbar abs.)	240	290
Operating pressure (bar g)	2	2
Connectors for tube (mm)	ID 6	ID 6
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Mains	230V/50Hz	230V/50Hz
Motor protection	IP 20	IP 20
Power P_1	65 W	65 W
Operating current	0.8 A	0.8 A
Weight	2.5 kg	2.5 kg
Dimensions L x H x W (mm)	187/157/90	187/157/90
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

[1] at atm. pressure

Accessories and spare parts

Description	Details	Order No.
Silencer	G 1/8	000345
Filter	G 1/8	000346
Hose connector	G 1/8, PVDF, AD 6 mm	014052
Fine control valve with pressure gauge	pressure side	001786
Fine control valve with vacuum gauge	suction side	001787
Spares kit	for N 811 KN.18	044066
Spares kit	for N 811 KT.18	044067

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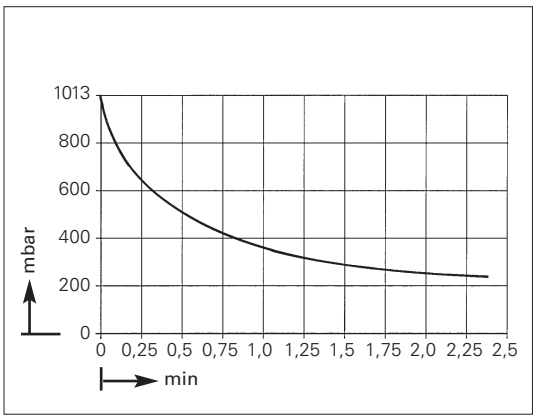
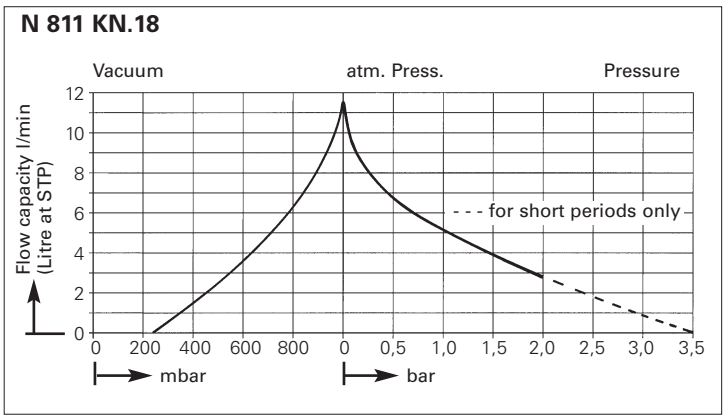
Dimensions and performance characteristics

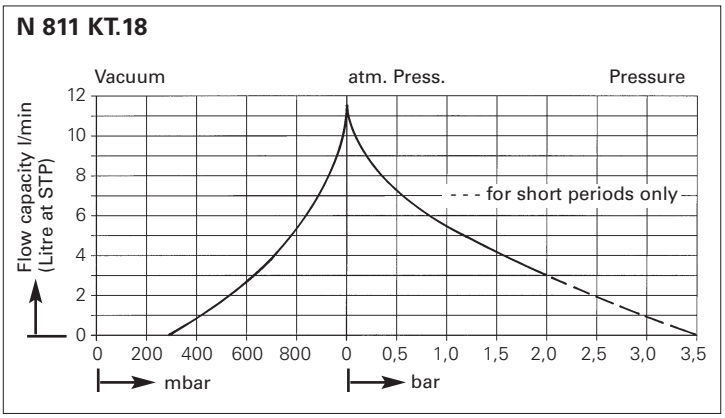
Pump down time for 5 l receiver



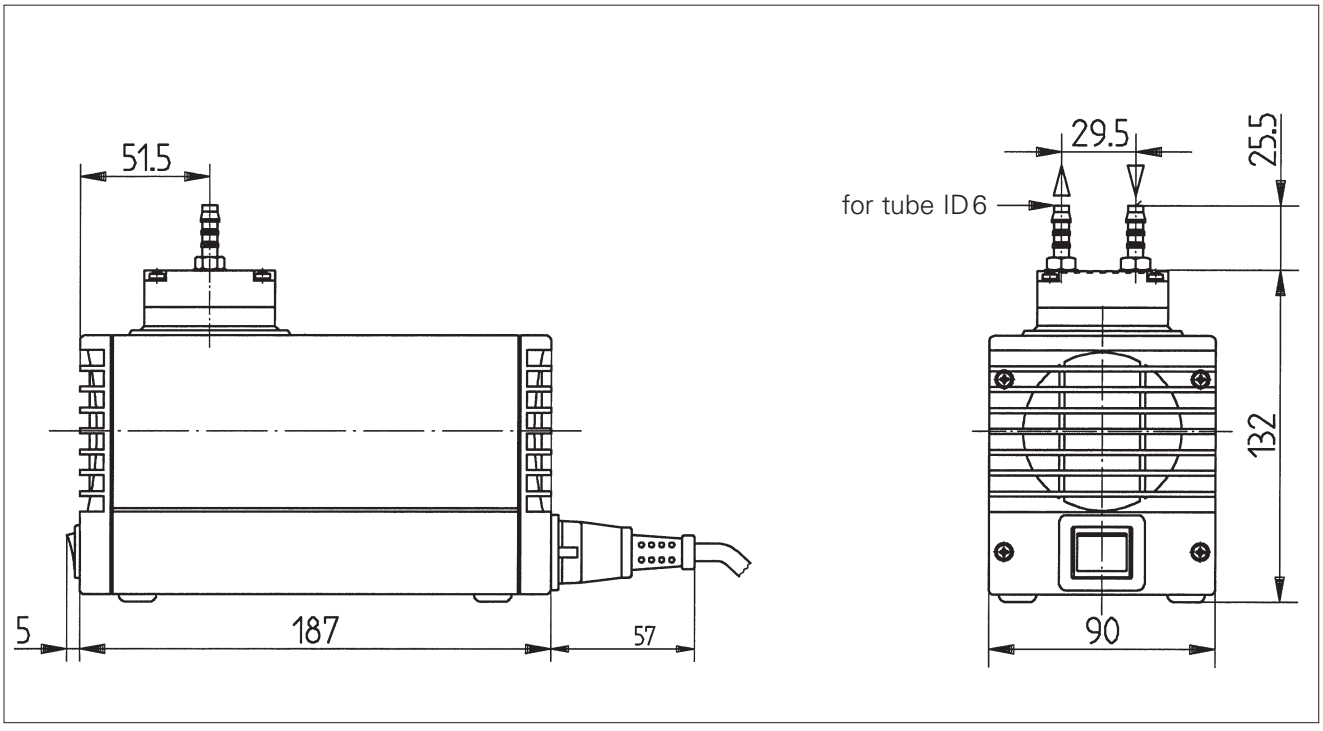
Performance characteristics



Performance characteristics



Dimensions (mm)



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KNF reserves the right to make changes.

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