



# Diaphragm Pumps for Air, Gases and Vapours



## LABOPORT® Mini Diaphragm Vacuum Pumps and Compressors

### Technical features:

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

### Series LABOPORT® N 86 K\_.18 Pumps

Series N 86 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.

Technical data:	N 86 KN.18	N 86 KT.18
Delivery (l/min) <sup>1)</sup>	6	5.5
Ultimate vacuum (mbar abs.)	100	160
Operating pressure (bar g)	2.4	2.5
Connectors for tube (mm)	ID 4	ID 4
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>	60 W	60 W
Operating current	0.6 A	0.6 A
Weight	1.9 kg	1.9 kg
Dimensions LxHxW (mm)	164/141/90	164/141/90
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

### Material in contact with the pumped media

Type/Order No.	Pump head	Diaphragm	Valves
N 86 KN.18	PPS	EPDM	FPM
N 86 KT.18	PPS	PTFE-coated	FFPM

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

## Accessories and spare parts

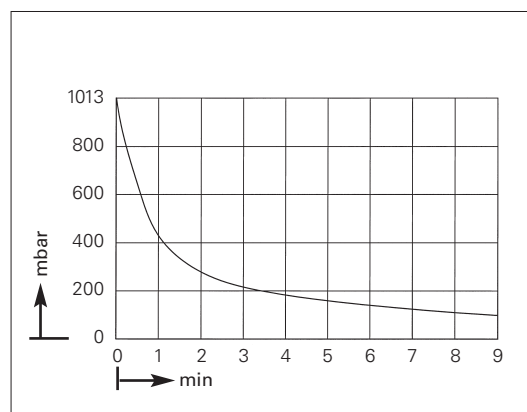
Description	Details	Order No.
Silencer	G 1/8	000345
Filter	G 1/8	000346
Hose connector	G 1/8, PVDF, for tube ID 4 mm	025671
Fine control valve with pressure gauge	pressure side	001786
Fine control valve with vacuum gauge	suction side	001787
Spares kit	for N 86 KN.18	043241
Spares kit	for N 86 KT.18	043242



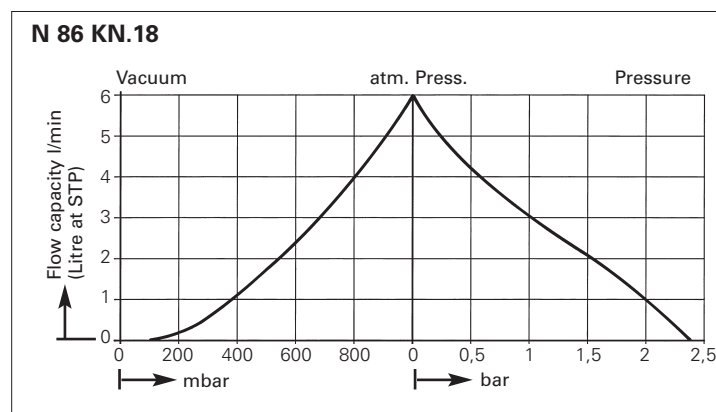
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## Dimensions and performance characteristics

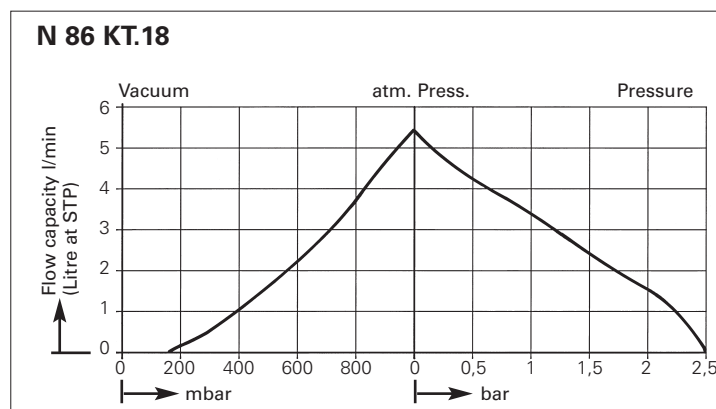
Pump down time for 5 l receiver



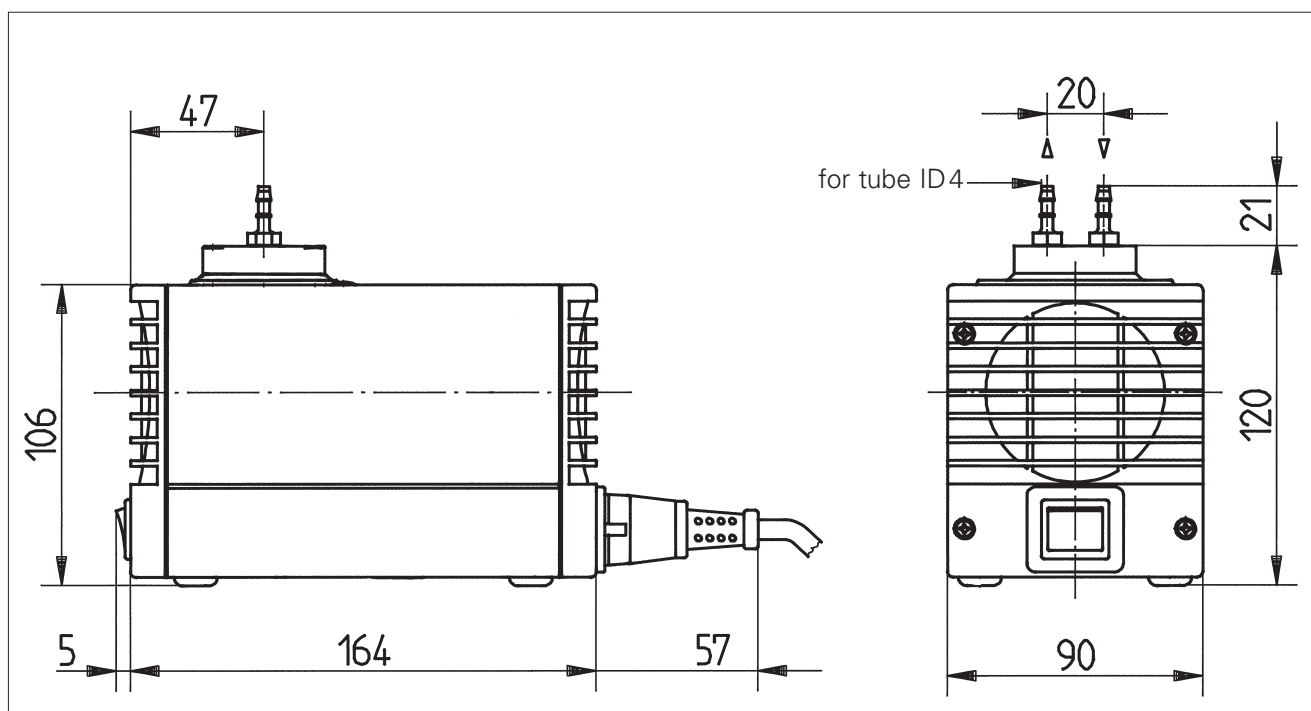
Performance characteristics



Performance characteristics



Dimensions (mm)





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**Use the above details to contact us if this literature doesn't answer all your questions.**

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

