

## Diaphragm Pumps for Air, Gases and Vapors

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### LABOPORT® Diaphragm Vacuum Pumps

**Technical features:**

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Highly compatible with vapors and condensation
- Chemically-resistant
- Therefore suitable for highly aggressive or corrosive gases and vapors
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

### Series LABOPORT® N840FTP, N840.3FTP Pumps

The chemically-resistant series N840 and N840.3 diaphragm pumps are single and double-head, oil-free 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.

**Material in contact with the pumped media**

Type/OrderNo.	Pump head	Diaphragm	Valves
N840FTP	PTFE	PTFE-coated	FFPM
N840.3FTP	PTFE	PTFE-coated	FFPM

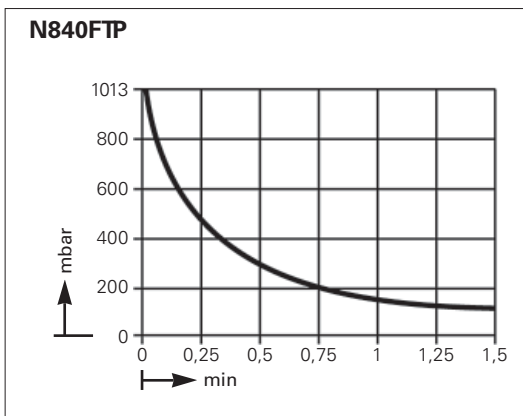
Technical data:	N840FTP	N840.3FTP
Delivery (l/min) <sup>1)</sup>	34	34
Ultimate vacuum (Torr)	75	6
Operating pressure (psi)	15	15
Connectors for tube (in.)	ID 3/8"	ID 3/8"
Permissible gas and ambient temperature	+5...+40 °C	+5...+40 °C
Voltage/Frequencies	115V/60Hz	115V/60Hz
Motor protection	IP 44	IP 44
Power P <sub>1</sub>	220 W	280 W
Operating current	3.2 A	4.2 A
Weight	12.2 kg	12.2 kg
Dimensions LxHxW (mm)	297/226/171	341/226/166
With thermal switch and power fuse		

Motors with other voltages and frequencies on request.

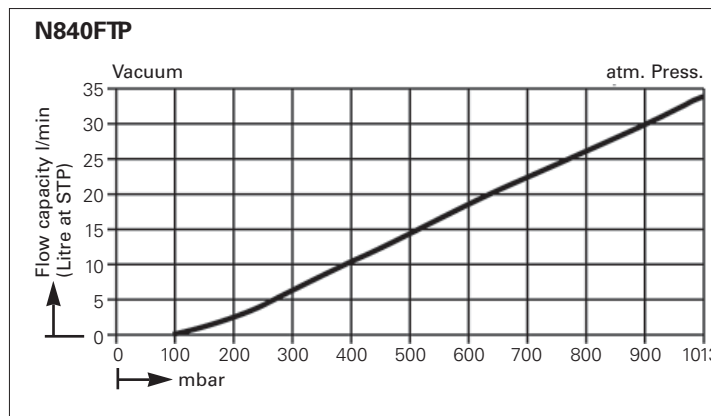
<sup>1)</sup> at atm. pressure

### Dimensions and performance characteristics

**Pump down time for 10 l receiver**



**Performance characteristics**



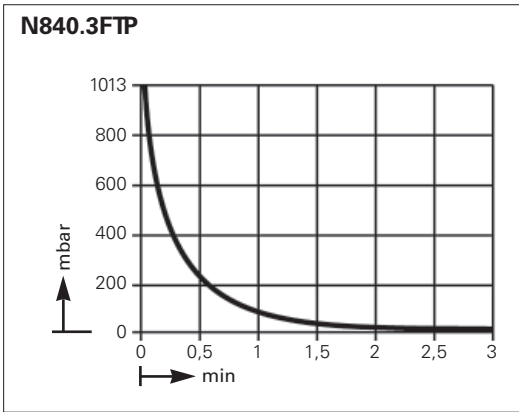
KNF reserves the right to make changes.

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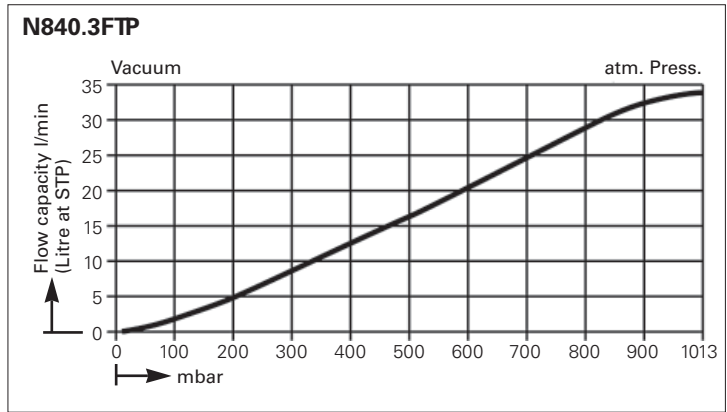
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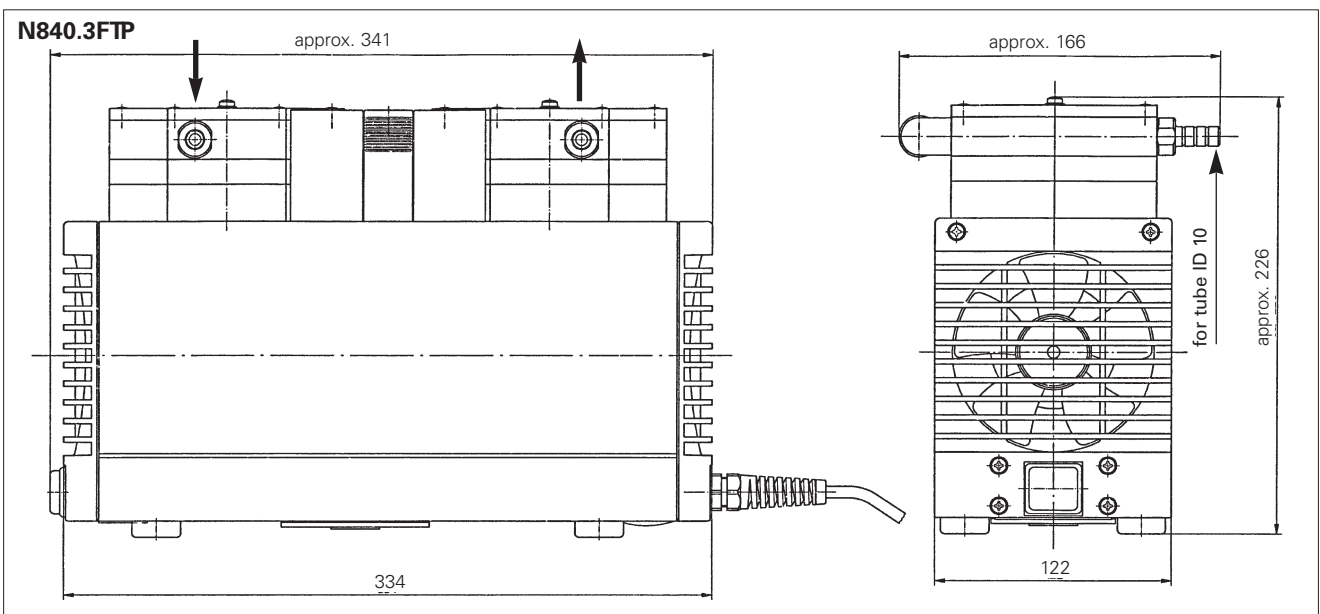
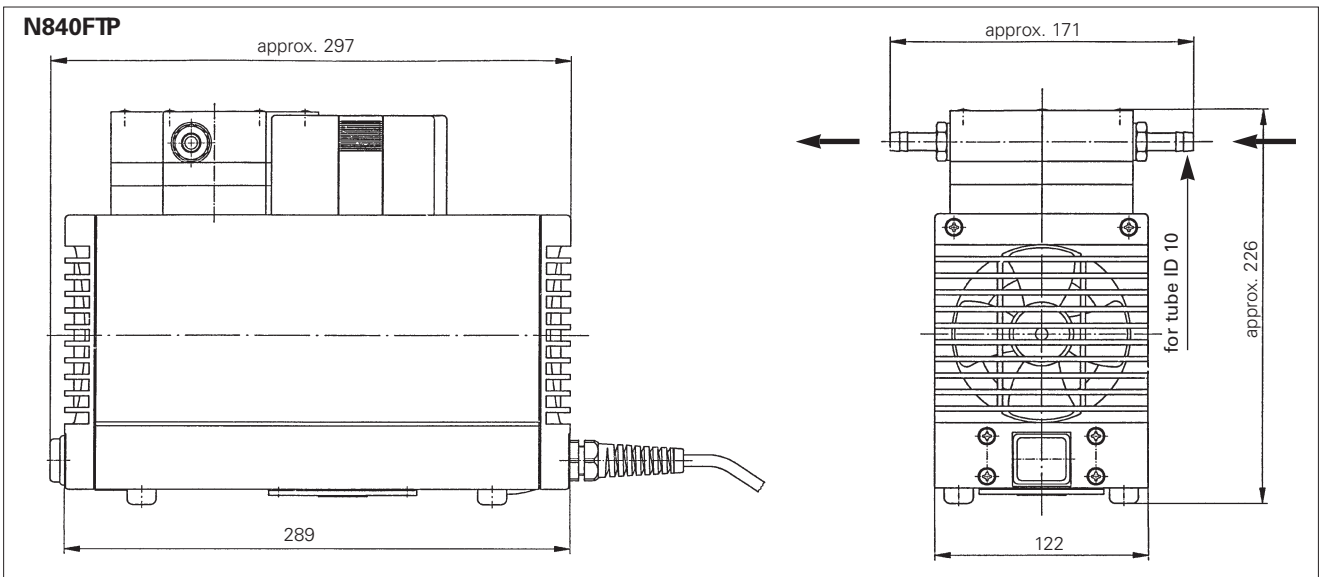
## Pump down time for 10 l receiver



## Performance characteristics



## Dimensions (mm)



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