

Diaphragm Pumps for Air, Gases and Vapors

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KNF
 NEUBERGER, INC.



Series LABOPORT® N820FTP, N820.3FTP Pumps

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. 6×10^{-3} mbar x l/s, not tested in serial production.

The chemically-resistant series N820 and N820.3 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 |
|---------------|-----------|-------------|--------|
| N820FTP | PTFE | PTFE-coated | FFPM |
| N820.3FTP | PTFE | PTFE-coated | FFPM |

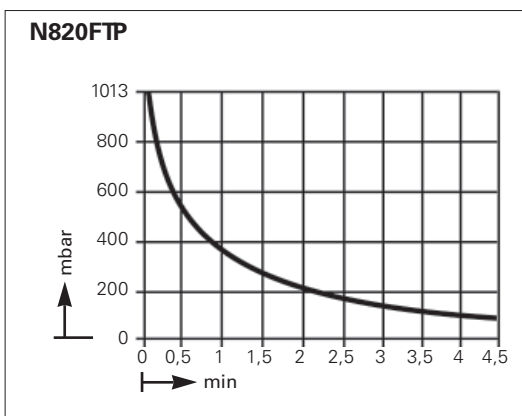
| Technical data: | N820FTP | N820.3FTP |
|---|-------------|-------------|
| Delivery (l/min) ¹⁾ | 20 | 20 |
| Ultimate vacuum (Torr) | 75 | 6 |
| Operating pressure (psi) | 15 | 15 |
| Connectors for tube (in.) | ID 3/8" | ID 3/8" |
| Permissible gas and ambient temperature | +5...+40 °C | +5...+40 °C |
| Voltage/Frequencies | 115V/60Hz | 115V/60Hz |
| Motor protection | IP 44 | IP 44 |
| Power P ₁ | 145 W | 130 W |
| Operating current | 1.9 A | 1.2 A |
| Weight | 15.6 lbs. | 20.5 lbs. |
| Dimensions LxHxW (mm) | 268/207/159 | 312/207/154 |
| With thermal switch and power fuse | | |

Motors with other voltages and frequencies on request.

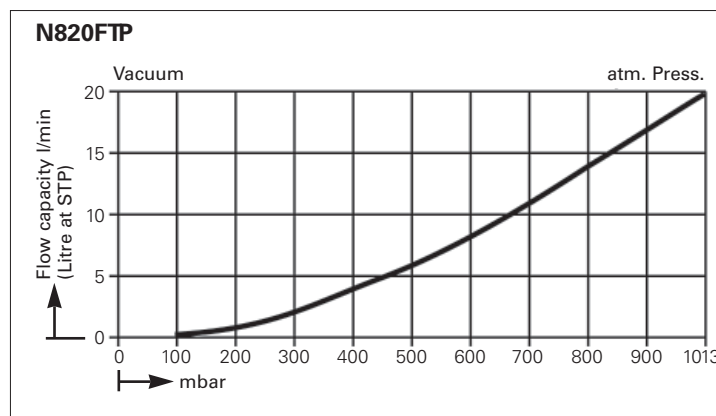
¹⁾ at atm. pressure

Dimensions and performance characteristics

Pump down time for 10 l receiver



Performance characteristics

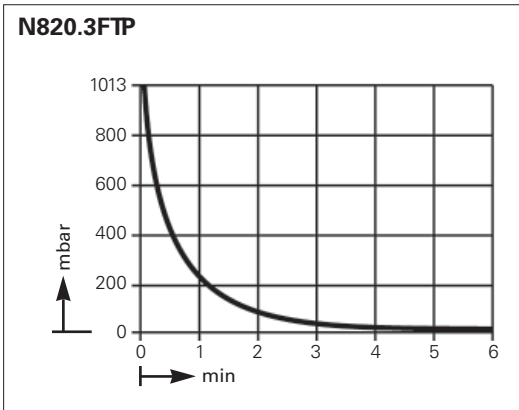


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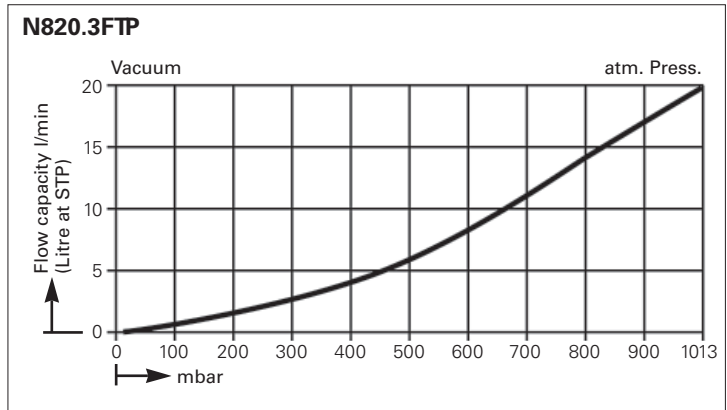
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Pump down time for 10 l receiver



Performance characteristics



Dimensions (mm)

