



## Diaphragm Pumps for Air, Gases and Vapours



### Series LABOPORT® N 811 K\_.18 Pumps

## 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 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.

#### Technical data:

|   | N 811 KN.18 | N 811 KT.18 |
|---|-------------|-------------|
| Delivery (l/min) <sup>1)</sup>          | 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 <sub>1</sub>                    | 65 W        | 65 W        |
| Operating current                       | 0.8 A       | 0.8 A       |
| Weight                                  | 2.5 kg      | 2.5 kg      |
| Dimensions LxHxW (mm)                   | 187/157/90  | 187/157/90  |
| With thermal switch and power fuse      |             |             |

#### Material in contact with the pumped media

| Type/OrderNo. | Pump head | Diaphragm   | Valves |
|---------------|-----------|-------------|--------|
| N 811 KN.18   | PPS       | EPDM        | FPM    |
| N 811 KT.18   | PPS       | PTFE-coated | FFPM   |

Motors with other voltages and frequencies on request.

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

## Accessories and spare parts

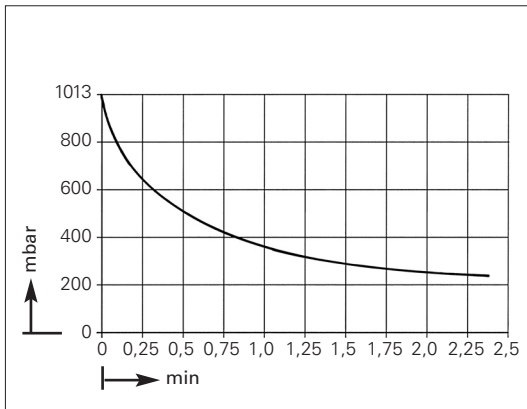
| Description                            | Details                       | Order No. |
|--|-------------------------------|-----------|
| Silencer                               | G 1/8                         | 000345    |
| Filter                                 | G 1/8                         | 000346    |
| Hose connector                         | G 1/8, PVDF, for tube ID 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    |



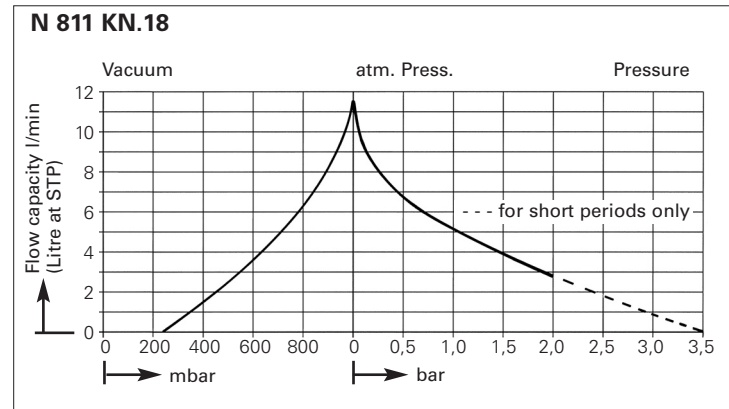
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## Dimensions and performance characteristics

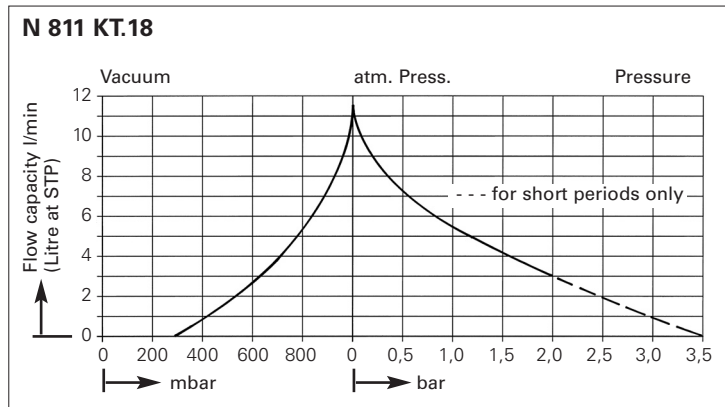
Pump down time for 5 l receiver



Performance characteristics



Performance characteristics



## Dimensions (mm)

