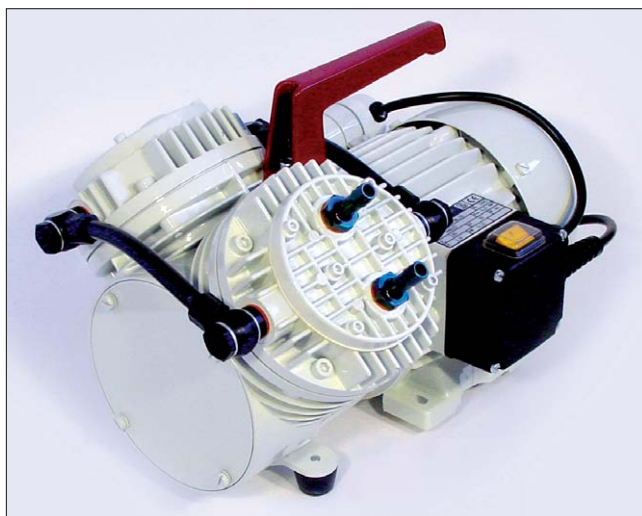


# Diaphragm Pumps for Air, Gases and Vapours

INNOVATIVE  
TECHNOLOGY  
WORLDWIDE

**KNF**  
NEUBERGER



## Diaphragm Vacuum Pumps and Compressors

### Technical features:

- 100% oil-free transfer
- Pure transfer, evacuation and compression
- Versions for slightly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly
- Gastight, leakage rate approx.  $6 \times 10^{-3}$  mbar x l/s, not tested in serial production.

### Series N 035.1.2 A\_.18 Pumps

Series N 035.1.2 diaphragm pumps are double-head, dry-running devices used in a wide range of laboratory applications. They transfer, compress and pump down without contamination.

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 035.1.2 AN.18 | Aluminium | CR          | Stainless steel |
| N 035.1.2 AT.18 | Aluminium | PTFE-coated | Stainless steel |

Choose the pump and the motor in accordance with the following example:

N 035.1.2 AN.18 with IP 44-Motor.

### Technical data:

|   | N 035.1.2 AN.18<br>IP 20-Motor | N 035.1.2 AN.18<br>IP 44-Motor |
|---|--------------------------------|--------------------------------|
| Delivery (l/min) <sup>1)</sup>                | 55                             | 55                             |
| Ultimate vacuum (mbar abs.)                   | 100                            | 100                            |
| Operating pressure (bar g)                    | 4                              | 4                              |
| Connectors for tube (mm) ID 9                 | ID 9                           | ID 9                           |
| Permissible gas and ambient temperature       | +5...+40 °C                    | +5...+40 °C                    |
| Voltage/Frequencies                           | 230V/50Hz                      | 230V/50Hz                      |
| Motor protection                              | IP 20                          | IP 44                          |
| Power P <sub>1</sub>                          | 300 W                          | 320 W                          |
| Operating current                             | 1.55 A                         | 1.9 A                          |
| Weight  | 11.3 kg                        | 11.6 kg                        |
| Dimensions L x H x W (mm) With thermal switch | 321/222/250                    | 349/222/250                    |

Motors with other voltages and frequencies on request.

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

### Versions for slightly aggressive gases and vapours

|   | N 035.1.2 AT.18<br>IP 20-Motor | N 035.1.2 AT.18<br>IP 44-Motor |
|---|--------------------------------|--------------------------------|
| Delivery (l/min) <sup>1)</sup>                | 50                             | 50                             |
| Ultimate vacuum (mbar abs.)                   | 100                            | 100                            |
| Operating pressure (bar g)                    | 4                              | 4                              |
| Connectors for tube (mm) ID 9                 | ID 9                           | ID 9                           |
| Permissible gas and ambient temperature       | +5...+40 °C                    | +5...+40 °C                    |
| Mains   | 230V/50Hz                      | 230V/50Hz                      |
| Motor protection                              | IP 20                          | IP 44                          |
| Power P <sub>1</sub>                          | 300 W                          | 320 W                          |
| Operating current                             | 1.55A                          | 1.9 A                          |
| Weight  | 11.3 kg                        | 11.6 kg                        |
| Dimensions L x H x W (mm) With thermal switch | 321/222/250                    | 349/222/250                    |

Motors with other voltages and frequencies on request.

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

### Accessories

| Description                            | Details       | for Type        | Order No. |
|--|---------------|-----------------|-----------|
| Silencer/Filter                        | G 1/4         |                 | 000352    |
| Pressure relief valve                  | 4 bar         | N 035.1.2 AN.18 | 047601    |
| Fine control valve with pressure gauge | pressure side | N 035.1.2 AN.18 | 000482    |
| Fine control valve with vacuum gauge   | suction side  | N 035.1.2 AN.18 | 000354    |

KNF reserves the right to make changes.

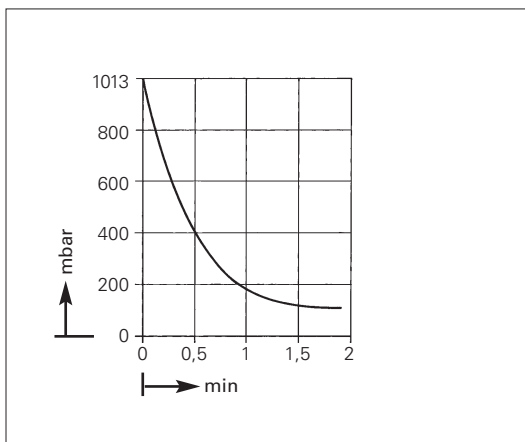
KNF 3/2009 Produced in Germany

# Diaphragm Pumps for Air, Gases and Vapours

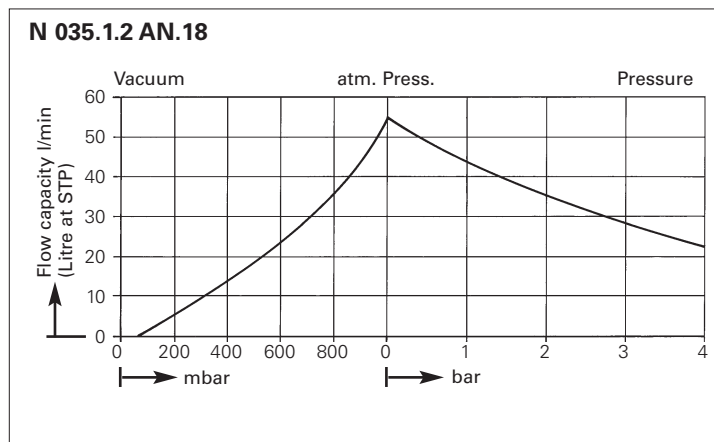


## Dimensions and performance characteristics

Pump down time for 20 l receiver



Performance characteristics



## Dimensions (mm)

