

1. Product description

The Grundfos MAGNA1 circulator pumps are designed for circulating liquids in the following systems:

- heating systems
- air-conditioning and cooling systems

The pump range can also be used for the following systems:

- ground source heat pump systems
- solar-heating systems.

Duty range

| Data | MAGNA1 (N) Single-head pumps | MAGNA1 D Twin-head pumps |
|-------------------------|------------------------------------|-----------------------------|
| Maximum flow rate, Q | 71 m ³ /h | 110 m ³ /h |
| Maximum head, H | 18 metres | |
| Maximum system pressure | 1.6 MPa (16 bar) | |
| Liquid temperature | -10 °C to +110 °C | |



TM05 5862 4112 - TM05 5863 4112

Fig. 1 Single-head MAGNA1 pumps

Characteristic features

- Proportional-pressure control.
- Constant-pressure control.
- Constant-curve/constant-speed duty.
- No external motor protection required.
- Insulating shells supplied with single-head pumps for heating systems.
- Wide temperature range where the liquid temperature and the ambient temperature are independent of each other.

Benefits

- Simple installation.
- Low energy consumption. All MAGNA1 pumps comply with the EuP 2013 and 2015 requirements.
- Eight light fields for indication of pump setting.
- Low noise level.
- No maintenance and long life.
- The complete range is available for a maximum system pressure of 16 bar (PN 16).

Main applications

Heating systems

- Main pump
- mixing loops
- heating surfaces
- air-conditioning surfaces.

The MAGNA1 circulator pumps are designed for circulating liquids in heating systems with variable flows where it is desirable to optimise the setting of the pump duty point, thus reducing energy costs. To ensure correct operation, it is important that the sizing range of the system falls within the duty range of the pump.