*Similar to figure*

## Data sheet

### Hydraulic data

| | |
|---|---|
| **Maximum operating pressure *PN*** | 10 bar |
| **Head max $H_{max}$** | 8.5 m |
| **Flow max $Q_{max}$** | 10.0 m³/h |
| **Minimum suction head at 50 °C *m*** | 3 m |
| **Minimum suction head at 95 °C *m*** | 10 m |
| **Minimum suction head at 110 °C** | 16 m |
| **Min. fluid temperature $T_{min}$** | -10 °C |
| **Max. fluid temperature $T_{max}$** | 110 °C |
| **Min. ambient temperature $T_{min}$** | -10 °C |
| **Max. ambient temperature $T_{max}$** | 40 °C |

### Motor data

| | |
|---|---|
| **Energy efficiency index (EEI)** | 0.19 |
| **Mains connection** | 1~230 V ±10%, 50/60 Hz |
| **Min current $I_{min}$** | 0.11 A |
| **Max current $I_{max}$** | 1.05 A |
| **Rated power $P_2$** | 133 W |
| **Min. speed $n_{min}$** | 750 1/min |
| **Max. speed $n_{max}$** | 3600 1/min |
| **Power consumption $P_{1\,min}$** | 7 W |
| **Power consumption $P_{1\,max}$** | 160 W |
| **Interference emission** | EN 61800-3;2004+A1;2012 /residential area (C1) |
| **Interference immunity** | EN 61800-3;2004+A1;2012 /industrial environment (C2) |
| **Insulation class** | F |
| **Protection class** | IPX4D |
| **Threaded cable connection** | 5 x M16x1.5 |

### Installation dimensions

| | |
|---|---|
| **Pipe connection on the suction side *DNs*** | G 1½ |
| **Pipe connection on the discharge side *DNd*** | G 1½ |
| **Port-to-port length *L0*** | 180 mm |

## Materials

| | |
|---|---|
| **Pump housing** | Grey cast iron |
| **Impeller** | PPS-GF40 |
| **Shaft** | Stainless steel |
| **Bearing** | Carbon-graphite |

## Equipment/function

### Function

| | |
|---|---|
| **Control mode** | Δp-v for variable differential pressure |
| | Δp-c for constant differential pressure |
| | Q limit for limiting the maximum volume flow |
| | Dynamic Adapt plus |
| | ΔT-const. for constant differential temperature control |
| | T-const. for constant temperature control |
| | Constant Q for constant volume flow control |
| | Multi Flow Adaptation |
| | Δ T-const. for constant differential temperature control |
| | User-defined PID control |
| | Constant speed (n-const.) |
| **Special features of the series** | Heating/Cooling switching |
| | Night set back |
| | Heat quantity measurement |
| | Cooling quantity measurement |
| | Key locking function |
| | No-Flow Stop |
| | Reset function to factory setting |
| | Adjustable volume flow limiter |
| | Ability to save and restore configured pump settings (3 restoration points) |
| | Fault and warning messages shown in plain text with advice on resolving the issue |
| **Multi pump operation** | Main/Standby |
| | Parallel operation |
| **Measurement value logging** | Heat and cooling capacity measurement |

### Function

| | |
|---|---|
| **Display** | Setpoint |
| | Actual delivery head |
| | Actual volume flow |
| | Actual power consumption |
| | Energy consumption |
| | Temperature (version “-R7”: current fluid temperature possible with Stratos MAXO temperature sensor) |
| | Warning messages in plain text (display status: yellow) |
| | Error messages in plain text (display: red) |
| | Pump venting (display status: blue) |
| | Control mode |
| | Active influences (e.g. STOP) |
| **Display (can also be selected)** | Speed |
| | Heating quantity |
| | Cooling quantity |
| | Operating hours |
| | Mains voltage |
| | Warning message |
| | Error message |
| **Pump venting function** | Yes |

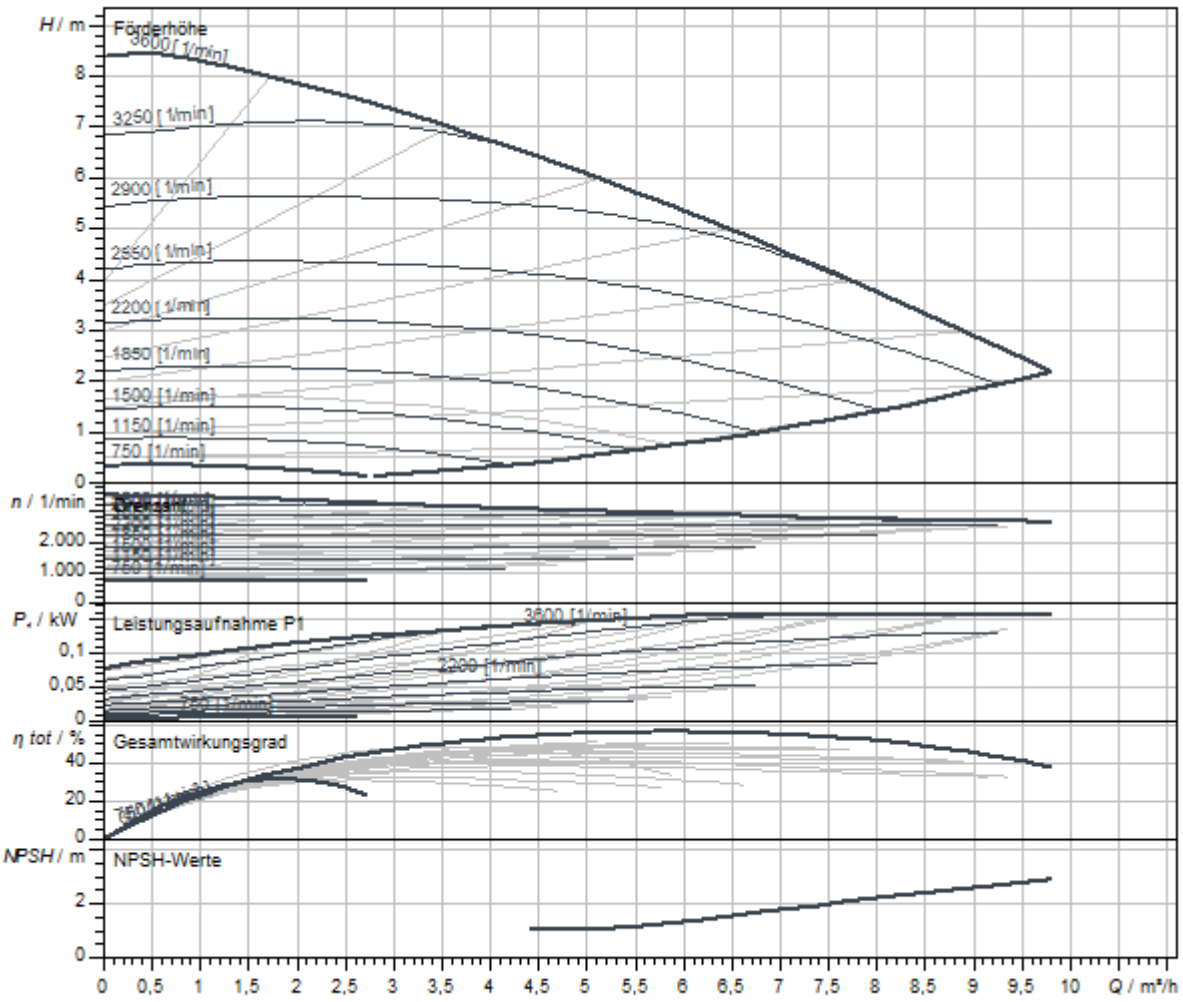
## Equipment

| | |
|---|---|
| **Approvals and labels** | CE<br>VDE<br>EAC |
| **Cold water insulation shell** | As accessories |
| **Display** | Graphic colour display (4.3 inches) |
| **Display information** | Comfort Version: LCD display (large) for showing the head, flow volume, actual und cumulated current. |
| **Pump control** | Electronic-controlled pump (high efficiency pump) |
| **Quick electrical connection** | Wilo Connector |
| **Thermal insulation shell** | Yes |
| **Blocking-current proof motor** | yes |
| **Particle filter** | yes |
| **Key lock** | yes |

## Connectivity

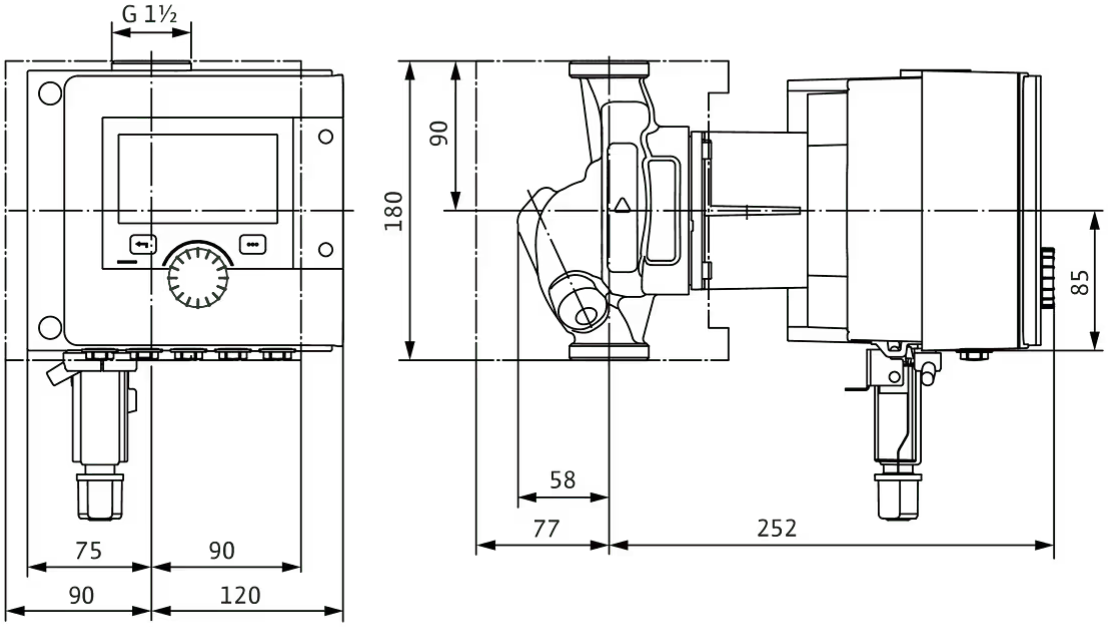
| | |
|---|---|
| **Access via the Wilo-Assistant app** | Yes |
| **Analogue signal as standard** | 0-10 V<br>2-10 V<br>4-20 mA<br>0-20 mA<br>PT1000 |
| **Bus communication via additional accessories** | BACnet MS/TP<br>LON<br>Modbus RTU<br>CANopen<br>PLR<br>BACnet IP<br>Modbus TCP |
| **Connection for Wilo-Smart Cloud** | Via Wilo-Smart Gateway |
| **Digital input** | Ext. OFF<br>Ext. MIN<br>Ext. MAX<br>MANUAL (BMS-OFF)<br>Key lock<br>Switchover between heating/cooling mode |
| **Digital output** | SSM<br>SBM |
| **wire data exchange and remote operation** | Bluetooth |

## Pump curves


H / m
Förderhöhe
3600 [1/min]
3250 [1/min]
2900 [1/min]
2550 [1/min]
2200 [1/min]
1850 [1/min]
1500 [1/min]
1150 [1/min]
750 [1/min]
n / 1/min
2.000
1.000
P1 / kW
Leistungsaufnahme P1
3600 [1/min]
2200 [1/min]
η tot / %
Gesamtwirkungsgrad
40
20
NPSH / m
NPSH-Werte
0 0,5 1 1,5 2 2,5 3 3,5 4 4,5 5 5,5 6 6,5 7 7,5 8 8,5 9 9,5 10 Q / m³/h

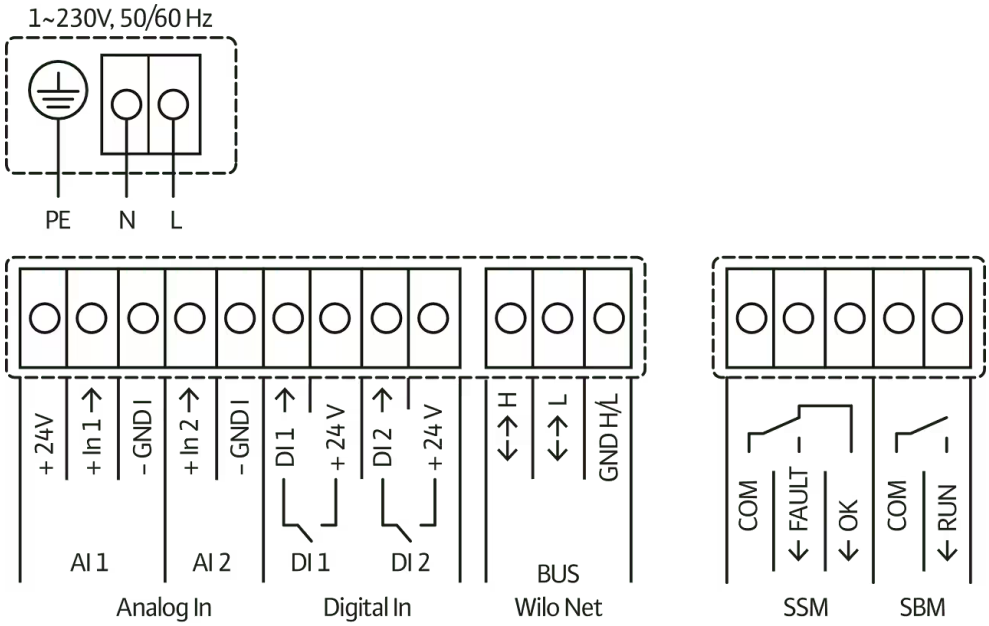
## Dimensions and dimensions drawings

### Stratos MAXO 25/0,5-8 PN 10




## Wiring diagram

### Standard: 1~ 230 V, 50/60 Hz, Option: 3~ 230 V, 50/60 Hz




SSM: Collective fault signal (NC contact in accordance with VDI 3814, load capacity 1 A, 250 V ~)

## Ordering information

### Product data

| | |
|---|---|
| **Brand** | Wilo |
| **Product description** | Stratos MAXO 25/0,5-8 PN 10 |
| **Article number** | 2186185 |
| **EAN number** | 4048482781617 |
| **Colour** | Green/black/silver |
| **Minimum order quantity** | 1 |
| **Date of sales availability** | 2018-11-01 |
| **Previous model article number** | 2095494 |
| **Previous model designation** | Stratos 25/1-8 PN 10 |

### Packaging

| | |
|---|---|
| **Packaging type** | Cardboard box |
| **Packaging property** | Transport packaging |
| **Pieces per pallet** | 32 |
| **Number per layer** | 8 |

### Dimension, weight

| | |
|---|---|
| **Length with packaging** | 400 mm |
| **Length *L*** | 335 mm |
| **Height with packaging** | 263 mm |
| **Height *H*** | 180 mm |
| **Width with packaging** | 300 mm |
| **Width *W*** | 210 mm |
| **Gross weight, approx. *m*** | 8.3 kg |
| **Net weight, approx. *m*** | 7.2 kg |

## Tender text

Premium smart-pump Wilo-Stratos MAXO

High-efficiency inline glandless pump with EC motor and electronic power adjustment. Can be used for cold water, heating water and water/glycol mixtures. Energy efficiency index (EEI) between ≤ 0.17 and ≤ 0.19 depending on pump type.

**Control modes:**

- Permanent, automatic performance adaptation to system requirements without setpoint specification **Wilo Dynamic Adapt plus** (factory setting). Up to 20% energy savings compared to dp-v control mode.
- Constant temperature **(T-const.)**
- Constant differential temperature **(dT-const.)**
- Needs-based volume flow optimisation of the feeder pump through connectivity and communication between multiple pumps **(Multi-Flow Adaptation).**
- Constant volume flow **(Q-const.)**
- Differential pressure control (dp-c) to a remote point in the pipe network **(index circuit evaluator)**
- Constant differential pressure **(dp-c)**
- Variable differential pressure **(dp-v)** with the option to set the nominal duty point
- Constant speed **(n-const.)**
- User-defined **PID** control

**Functions:**

- Heat quantity measurement
- Cooling quantity measurement
- Pump automatically deactivates when no flow is detected **(No-Flow Stop)**
- Switchover between heating and cooling mode (automatic, external or manual)
- Adjustable volume flow limiter using the Q-Limit function **($Q_{min.}$ and $Q_{max.}$)**
- Operating modes of twin-head pumps: Efficiency-optimised **parallel operation** for dp-c and dp-v, main and standby operation
- Ability to save and restore configured pump settings **(3 restoration points)**
- **Fault and warning messages** shown in plain text with advice on resolving the issue
- **Pump venting function** for automatic venting of the rotor chamber
- Automatic **setback operation**
- Automatic **deblocking function** and integrated **full motor protection**
- **Dry-running detection**

**Display:**

- Control mode
- Setpoint
- Volume flow
- Temperature
- Power consumption
- Electric consumption
- Active influences (e.g. STOP, No-Flow Stop)

**Version:**

- **2** configurable **analogue inputs**: 0–10 V, 2–10 V, 0–20 mA, 4–20 mA and commercially available PT1000; +24 V DC power supply
- **2** configurable **digital inputs** (Ext. OFF, Ext. Min, Ext. Max, heating/cooling, manual override (uncoupled from building automation), operation lock (key lock and remote operation configuration protection))
- **2** configurable **signal relays** for **operational and fault messages**
- **Slot for Wilo-CIF modules** with interfaces for building automation BA (optional accessories: CIF modules Modbus RTU, Modbus TCP, BACnet MS/TP, BACnet IP, LON, PLR, CANopen)
- Wilo Net as a Wilo system bus for communication between Wilo products, e.g. **Multi-Flow Adaptation**; double pump operation and Wilo-Smart Gateway
- **Integrated temperature sensor**
- Automatic **emergency operation** with definable pump speed for exceptional circumstances, e.g. bus communication or sensor value malfunction
- **Graphic colour display** (4.3 inches) with one-button manual operation
- Use the Wilo-Assistant app to read and set operating data and –among other things– set up a commissioning protocol through the Bluetooth interface (no further accessories required)
- Integrated **double pump management** (double pumps are prewired) when using 2 single pumps as double pump unit (connection via Wilo Net)
- Cable break detection when using an analogue signal (in connection with 2–10 V or 4–20 mA)
- Outdoor installation with weather protection possible in accordance with the installation and operating instructions
- Pre-set date and time
- Thermal insulation shell for heating applications
- 5-year warranty

## Scope of delivery

- Pump
- Optimised Wilo-Connector the same for all sizes
- 2x threaded cable connection M16 x 1.5
- Washers for flange screws M12 and M16 (for nominal connection diameters DN 32 to DN 65)
- 2x gaskets for threaded connection
- Thermal insulation shell
- Concise Installation and operating instructions

## Optional accessories:

- ClimaForm cold insulation to avoid the formation of condensate
- CIF module: Modbus TCP, Modbus RTU, BACnet IP, BACnet MS/TP, LON, PLR, CANopen
- PT 1000 (B) pipe contact sensor (for domestic hot water)
- PT 1000 (AA) sensor for installation in immersion well
- Differential pressure sensor
- Smart Gateway

## Operating Data

| | |
|---|---|
| **Min. fluid temperature $T_{min}$** | -10 °C |
| **Max. fluid temperature $T_{max}$** | 110 °C |
| **Min. ambient temperature $T_{min}$** | -10 °C |
| **Max. ambient temperature $T_{max}$** | 40 °C |
| **Maximum operating pressure *PN*** | 10 bar |
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| **Mains connection** | 1~230 V, 50/60 Hz |
| **Power consumption $P_{1\,max}$** | 160 W |
| **Min. speed $n_{min}$** | 750 1/min |
| **Max. speed $n_{max}$** | 3600 1/min |
| **Protection class motor** | IPX4D |
| **Threaded cable connection** | 5 x M16x1.5 |

## Materials

| | |
|---|---|
| **Pump housing** | Grey cast iron |
| **Impeller** | PPS-GF40 |
| **Shaft** | Stainless steel |
| **Bearing** | Carbon-graphite |

## Installation dimensions

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|---|---|
| **Pipe connection on the suction side *DNs*** | G 1½ |
| **Pipe connection on the discharge side *DNd*** | G 1½ |
| **Port-to-port length *L0*** | 180 mm |

## Ordering information

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|---|---|
| **Brand** | Wilo |
| **Product description** | Stratos MAXO 25/0,5-8 PN 10 |
| **Net weight, approx. *m*** | 7.2 kg |
| **Article number** | **2186185** |