

Data sheet

Operating data

Fluid media	Water
Hydraulic data	
Maximum operating pressure P_N	10 bar
Head max H_{\max}	11.0 m
Flow max Q_{\max}	12.0 m ³ /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}	90 °C
Min. ambient temperature T_{\min}	-10 °C
Max. ambient temperature T_{\max}	40 °C

Motor data

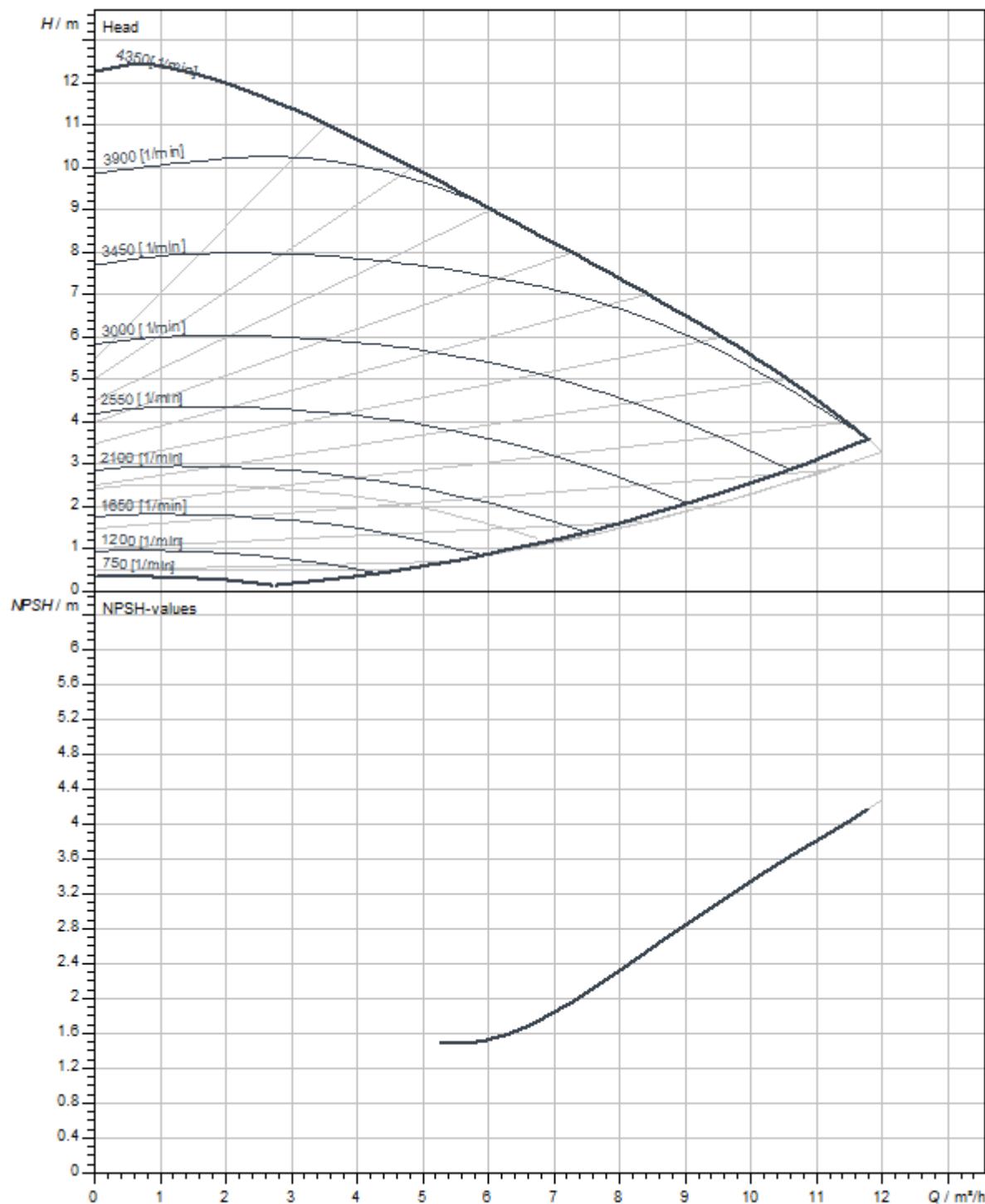
Energy efficiency index (EEI)	0.19
Mains connection	1~230 V ±10%, 50/60 Hz
Min. current I_{\min}	0.11 A
Max. current I_{\max}	1.28 A
Rated power P_2	262 W
Min. speed n_{\min}	750 1/min
Max. speed n_{\max}	4350 1/min
Power consumption $P_{1\min}$	7 W
Power consumption $P_{1\max}$	295 W
Interference emission	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

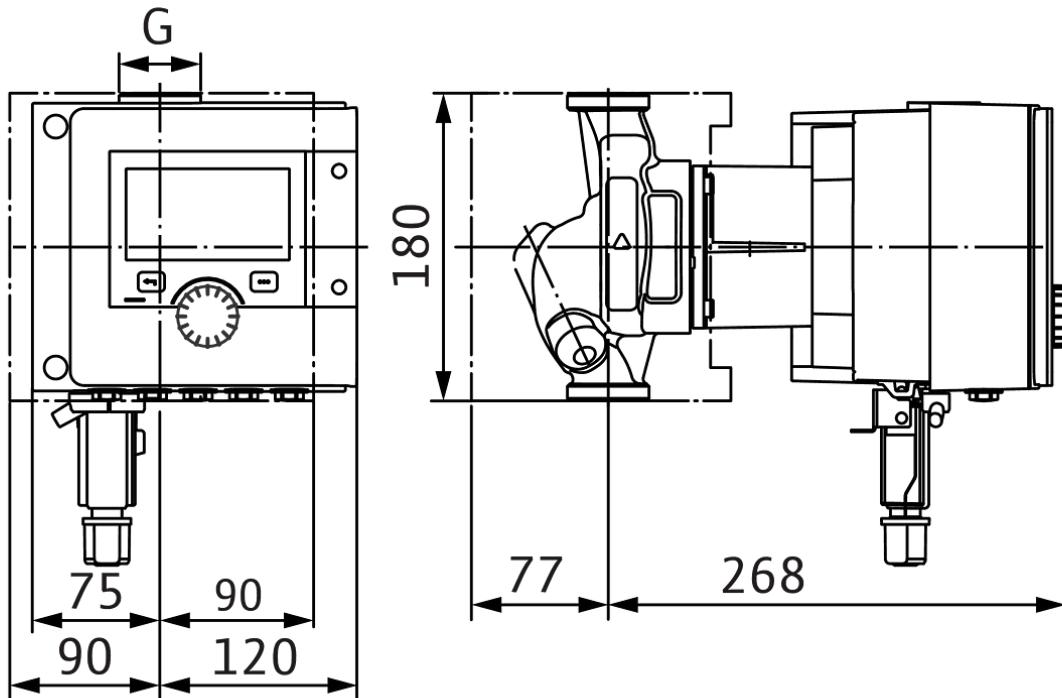
Installation dimensions

Pipe connection on the suction side DNs	G 2
Pipe connection on the discharge side DNd	G 2
Port-to-port length LO	180 mm

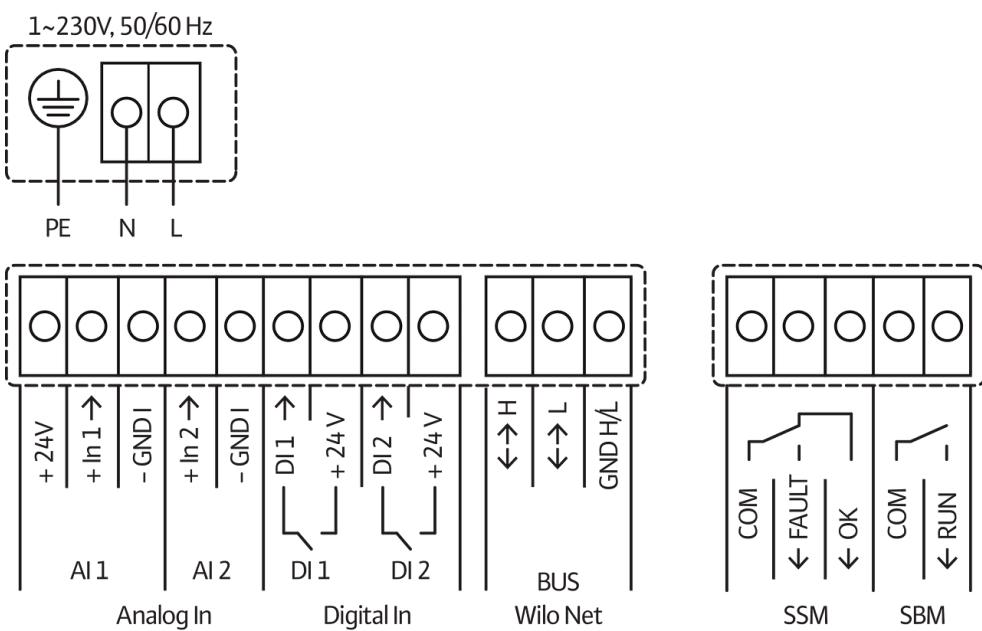
Materials

Pump housing	Cast iron
Impeller	PPS-GF40
Shaft	1.4122, DLC-coated
Bearing	Carbon, antimony-impregnated

Pump curves

Dimensions and dimensions drawings**Stratos MAXO 30/0,5-12 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 30/0,5-12 PN10-R7
Article number	2217901
EAN number	4062679192086
Colour	Green/black/silver
Minimum order quantity	1
Date of sales availability	2021-07-09

Dimension, weight

Length with packaging	400 mm
Length <i>L</i>	350 mm
Height with packaging	263 mm
Height <i>H</i>	180 mm
Width with packaging	300 mm
Width <i>W</i>	210 mm
Gross weight, approx. <i>m</i>	8.6 kg
Net weight, approx. <i>m</i>	8 kg

Packaging

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

Tender text

Premium smart-pump Wilo-Stratos MAXO-R7

High efficiency in-line 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 power adjustment 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) (automatic, possible with Stratos MAXO temperature sensor)
- 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** (possible with Stratos MAXO temperature sensor)
- Automatic **deblocking function** and integrated **full motor protection**
- **Dry-running detection**

Display:

- Control mode
- Setpoint
- Volume flow
- Temperature (possible with Stratos MAXO temperature sensor)
- 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 run signals 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**; twin-head pump operation and Wilo-Smart Gateway
- 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 **dual pump management** (twin-head pumps are prewired) when using 2 single pumps as twin-head 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

Scope of delivery

- Pump
- Optimised Wilo-Connector the same for all sizes
- 2x threaded cable connection M16 x 1.5
- 2x gaskets
- 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
- Stratos MAXO temperature sensor (can be retrofitted for recording and displaying the fluid temperature and using the temperature-controlled control modes T-const., dT-const.)

Operating data

Fluid media	Water
Fluid temperature <i>T</i>	-10 °C
Ambient temperature <i>T</i>	-10 °C
Maximum operating pressure <i>PN</i>	10 bar
Minimum suction head at 50 °C <i>m</i>	3 m
Minimum suction head at 95 °C <i>m</i>	10 m
Minimum suction head at 110 °C	16 m

Motor data

Energy efficiency index (EEI)	0.19
Interference emission	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference immunity	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Mains connection	1~230 V, 50/60 Hz
Power consumption <i>P₁ max</i>	295 W
Min. speed <i>n_{min}</i>	750 1/min
Max. speed <i>n_{max}</i>	4350 1/min
Protection class motor	IPX4D
Threaded cable connection	5 x M16x1.5

Materials

Pump housing	Cast iron
Impeller	PPS-GF40
Shaft	1.4122, DLC-coated
Bearing	Carbon, antimony-impregnated

Installation dimensions

Pipe connection on the suction side <i>D_Ns</i>	G 2
Pipe connection on the discharge side <i>D_Nd</i>	G 2
Port-to-port length <i>L_O</i>	180 mm

Ordering information

Brand	Wilo
Product description	Stratos MAXO 30/0,5-12 PN10-R7
Net weight, approx. <i>m</i>	8 kg
Article number	2217901