

Data sheet

Operating data

Hydraulic data

-	
Maximum operating pressure <i>PN</i>	10 bar
Head max <i>H</i> _{max}	6.0 m
Flow max Q max	22.0 m³/h
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
Min. fluid temperature T _{min}	-10 °C
Max. fluid temperature <i>T</i> _{max}	90 °C
Min. ambient temperature T _{min}	-10 °C
Max. ambient temperature T _{max}	40 °C

Water

±10%, 50/60 Hz

Max. speed <i>n</i> _{max}	3150 1/min
Power consumption P _{1 min}	7 W
Power consumption P _{1 max}	270 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

750 1/min

Installation dimensions

Min. speed n_{min}

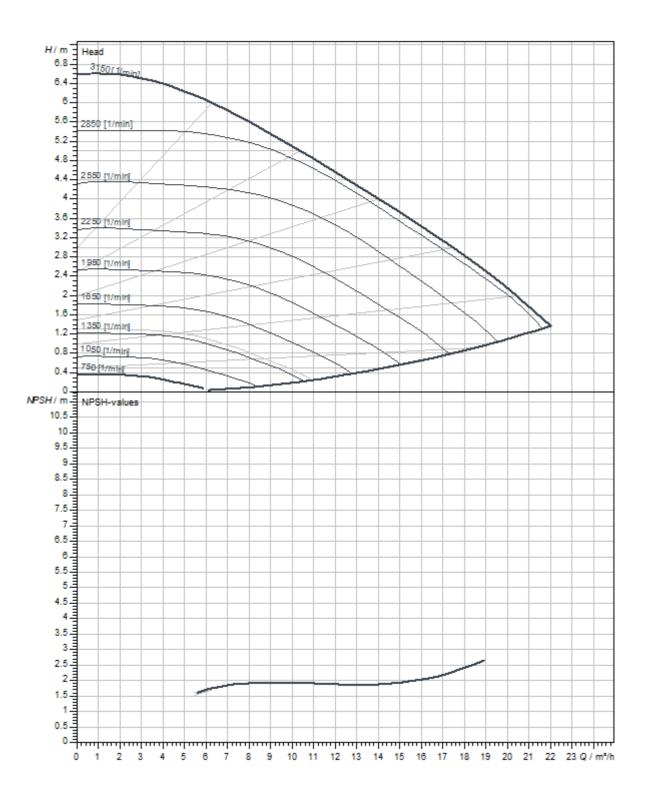
Pipe connection on the suction side <i>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50
Port-to-port length <i>L0</i>	240 mm

Materials

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



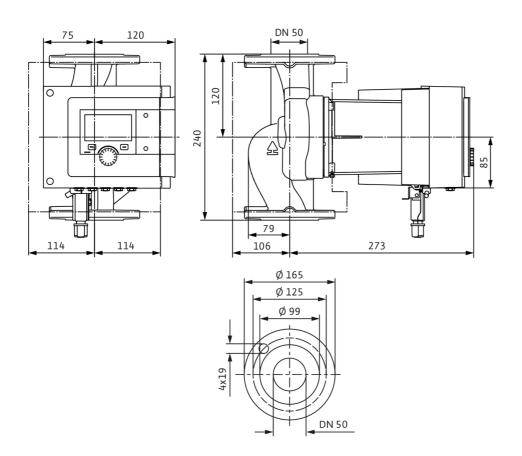
Pump curves





Dimensions and dimensions drawings

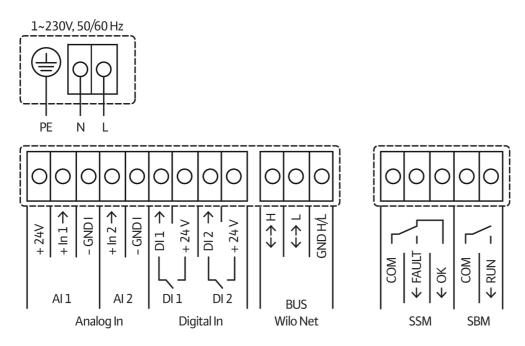
Stratos MAXO 50/0,5-6 PN6/10-R7





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 50/0,5-6 PN6/10-R7
Article number	2217953
EAN number	4062679195322
Colour	Green/black/silver
Minimum order quantity	1
Date of sales availability	2021-09-01

Dimension, weight

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Length with packaging	600 mm
Length <i>L</i>	380 mm
Height with packaging	394 mm
Height <i>H</i>	240 mm
Width with packaging	400 mm
Width W	234 mm
Gross weight, approx. <i>m</i>	17.2 kg
Net weight, approx. <i>m</i>	14 kg

Packaging

Number per layer	4
Packaging property	Transport packaging
Packaging type	Cardboard box
Pieces per pallet	8



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: Efficiencyoptimised 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)	0.18
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>P</i> _{1 max}	270 W
Min. speed n _{min}	750 1/min
Max. speed <i>n</i> _{max}	3150 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>DNs</i>	DN 50
Pipe connection on the discharge side <i>DNd</i>	DN 50
Port-to-port length <i>L0</i>	240 mm

Ordering information

Brand	Wilo
Product description	Stratos MAXO 50/0,5-6 PN6/10-R7
Net weight, approx. <i>m</i>	14 kg
Article number	2217953