



# **Data sheet**

# Hydraulic data

Maximum operating pressure PN	10 bar
Head max H <sub>max</sub>	14.0 m
Flow max Q max	27.6 m³/h
Minimum suction head at 50 °C m	5 m
Minimum suction head at 95 °C <i>m</i>	12 m
Minimum suction head at 110 °C	18 m
Min. fluid temperature $T_{\min}$	-10 °C
Max. fluid temperature $T_{\rm max}$	90 °C
Min. ambient temperature $T_{\min}$	-10 °C
Max. ambient temperature $T_{\rm max}$	40 °C

### **Motor data**

Energy efficiency index (EEI)	≤0.17
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I <sub>min</sub>	0.2 A
Max current $I_{\sf max}$	2.49 A
Rated power P <sub>2</sub>	479 W
Min. speed $n_{\min}$	650 1/min
Max. speed $n_{\text{max}}$	3600 1/min
Power consumption P <sub>1 min</sub>	10 W
Power consumption $P_{1 \text{ max}}$	570 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	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 <i>DNs</i>	DN 40
Pipe connection on the discharge side <i>DNd</i>	DN 40
Port-to-port length <i>L0</i>	250 mm



# Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	1.4028, DLC-coated
Bearing	Carbon, antimony-impregnated



# **Equipment/function**

# **Function**

Δρ-ν for variable differential pressure           Δρ-c for constant differential pressure           Q limit for limiting the maximum volume flow           Dynamic Adapt plus           AT-const. for constant differential temperature control           Control mode         T-const. for constant temperature control           Multi Flow Adaptation         Δ T-const. for constant differential temperature control           User-defined PID control         Constant speed (n-const.)           Heating/Cooling switching         Night set back           Heat 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         Heat and cooling capacity measurement           Measurement value logging         Heat and cooling capacity measurement           Display         Erepoint           Actual delivery head         Actual rolume flow           Actual power consumption         Energy consumption           Energy consumption         Temperature (version "-R7"; current fluid temperature possible with Stratos MAXO temperature possible with Stratos M	Function	
Q limit for limiting the maximum volume flow		Δp-v for variable differential pressure
Dynamic Adapt plus  AT-const. for constant differential temperature control  T-const. for constant temperature control  Constant Q for constant volume flow control  Multi Flow Adaptation  A T-const. for constant differential temperature control  User-defined PID control  Constant speed (n-const.)  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  Measurement value logging  Main/Standby  Parallel operation  Heat and cooling capacity measurement  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: red)  Pump venting (display status: blue)  Control mode		Δp-c for constant differential pressure
Control mode  AT-const. for constant differential temperature control  T-const. for constant volume flow control  Multi Flow Adaptation  A T-const. for constant differential temperature control  Multi Flow Adaptation  A T-const. for constant differential temperature control  User-defined PID control  Constant speed (n-const.)  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  Measurement value logging  Main/Standby  Parallel operation  Measurement value logging  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		Q limit for limiting the maximum volume flow
Control mode  T-const. for constant temperature control  Constant Q for constant volume flow control  Multi Flow Adaptation  A T-const. for constant differential temperature control  User-defined PID control  Constant speed (n-const.)  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  Measurement value logging  Main/Standby  Parallel operation  Measurement value logging  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: red)  Pump venting (display status: blue)  Control mode		Dynamic Adapt plus
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Display  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	Display	Energy consumption
status: yellow)  Error messages in plain text (display: red)  Pump venting (display status: blue)  Control mode		temperature possible with Stratos MAXO
Pump venting (display status: blue) Control mode		
Control mode		Error messages in plain text (display: red)
		Pump venting (display status: blue)
Active influences (e.g. STOP)		Control mode
		Active influences (e.g. STOP)

# **Function**

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 VDE 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

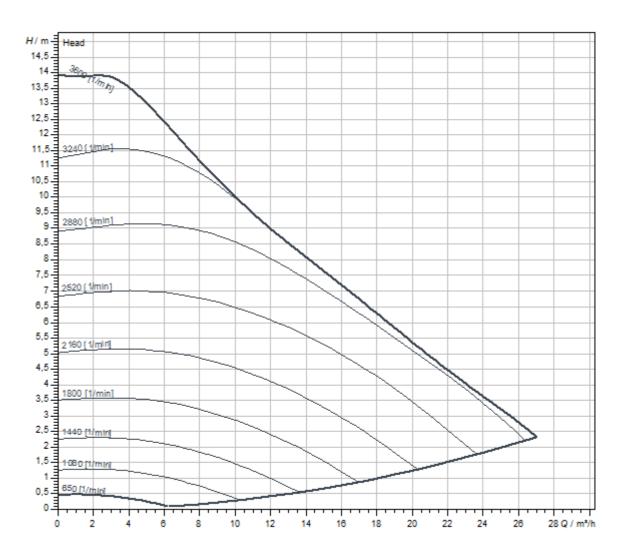


# Connectivity

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



# **Pump curves**

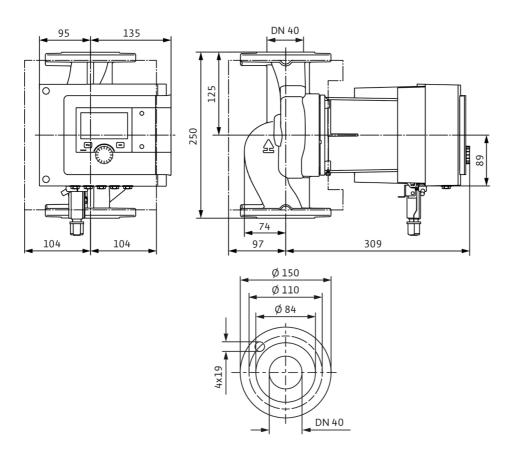


Fluid media	Water 100 %
Fluid temperature <i>T</i>	20,00 °C
speed at duty point <i>n hydr. @ OP</i>	2.902 1/min



# **Dimensions and dimensions drawings**

# Stratos MAXO 40/0,5-12 PN6/10-R7





#### **Tender text**

Premium smart-pump Wilo-Stratos MAXO-R7 (R7 = without internal temperature sensor)

High efficiency in-line glandless pump with EC motor and electronic power adjustment. Can be used for chilled water, heating water and water/glycol mixtures. Energy efficiency index (EEI) between  $\leq 0.17$  and  $\leq 0.19$  depending on pump type.

#### **Control modes:**

- > Permanent, automatic performance adjustment according 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 (available with accessory Wilo fluid temperature sensor or analogue temperature sensors e.g. 2x PT1000)
- > Cooling quantity measurement (available with accessory Wilo fluid temperature sensor or analogue temperature sensors e.g. 2x PT1000)
- > Pump automatically deactivates when no flow is detected (No-Flow Stop)
- > Switchover between heating and cooling mode (automatic, external or manual) (automatic, available with the accessory Wilo fluid 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 night setback (available with the accessory Wilo fluid temperature sensor)
- > Automatic deblocking function and integrated full motor protection
- > Dry-running detection

#### Display:

- > Control mode
- > Setpoint
- > Volume flow
- > Temperature (available with accessory Wilo fluid 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

#### **Operating Data**

Min. fluid temperature $T_{\min}$	-10 °C
Max. fluid temperature $T_{\rm max}$	90 °C
Min. ambient temperature $T_{\min}$	-10 °C
Max. ambient temperature $T_{\rm max}$	40 °C
Maximum operating pressure PN	10 bar
Minimum suction head at 50 °C <i>m</i>	5 m
Minimum suction head at 95 °C <i>m</i>	12 m

#### Scope of delivery

- > Pump
- > Optimised Wilo-Connector the same for all sizes
- > 2x threaded cable gland M16 x 1.5
- > 2x gaskets for threaded connection
- > Thermal insulation shell
- > 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
- > Wilo fluid temperature sensor (can be retrofitted for recording and displaying the fluid temperature, heat and cooling quantity and using the temperaturecontrolled control modes T-const., dT-const.)



# **Motor data**

Energy efficiency index (EEI)	≤0.17
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Mains connection	1~230 V, 50/60 Hz
Power consumption $P_{1 \text{ max}}$	570 W
Min. speed $n_{\min}$	650 1/min
Max. speed $n_{\text{max}}$	3600 1/min
Protection class motor	IPX4D
Threaded cable connection	5 x M16x1.5

# Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	1.4028, DLC-coated
Bearing	Carbon, antimony-impregnated

# **Installation dimensions**

Pipe connection on the suction side <i>DNs</i>	DN 40
Pipe connection on the discharge side <i>DNd</i>	DN 40
Port-to-port length <i>L0</i>	250 mm

# **Ordering information**

Brand	Wilo
Product description	Stratos MAXO 40/0,5-12 PN6/10-R7
Net weight, approx. <i>m</i>	16.4 kg
Article number	2217951