

Hydraulic data

Maximum operating pressure PN	10 bar
Min. fluid temperature for HVAC applications T_{\min}	0 °C
Max. fluid temperature for HVAC <i>T</i>	80 °C
Min. ambient temperature T_{\min}	0 °C
Max. ambient temperature $T_{\rm max}$	40 °C
Max. permitted total water hardness	3.57 mmol/l (20°dH)

Motor data

Energy efficiency index (EEI)	0.17
Mains connection	1~230 V, 50/60 Hz
Rated power P ₂	0.83 kW
Rated current I _N	4.17 A
Min. speed n_{\min}	500 1/min
Max. speed n_{\max}	3000 1/min
Power consumption P _{1 min}	20.0 W
Power consumption P _{1 max}	950.0 W
Interference emission	EN 61800- 3;2004+A1;2012 /residential area (C1)
Interference immunity	EN 61800- 3;2004+A1;2012 /industrial environment (C2)
Speed control	Frequency converter
Insulation class	F
Protection class motor	IPX4D
Motor protection	Internal protection overheating and overcurrent

Materials

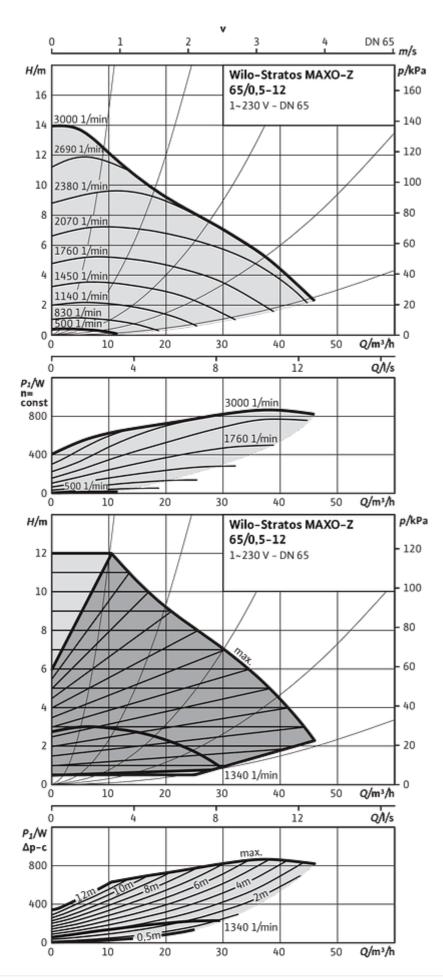
Pump housing	Stainless steel
Impeller	PPS-GF40
Shaft	1.4122, DLC-coated
Bearing	Carbon-graphite

Installation dimensions

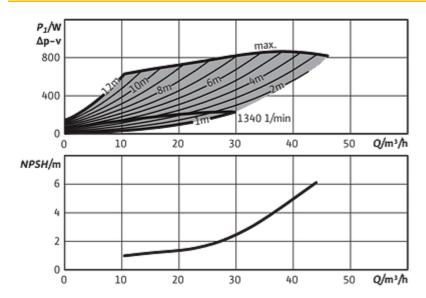
Pipe connection on the suction side <i>DNs</i>	DN 65
Pipe connection on the pressure side <i>DNd</i>	DN 65
Port-to-port length <i>L0</i>	340 mm



Wilo-Stratos MAXO-Z 65/0,5-12

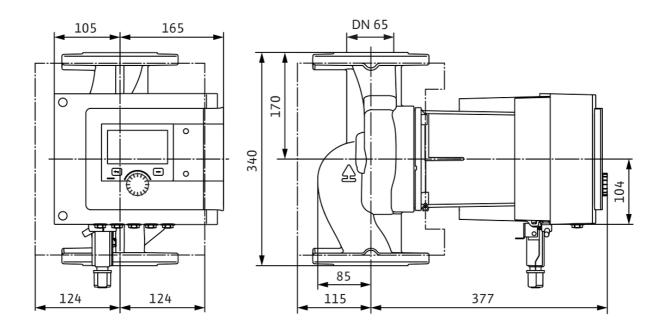






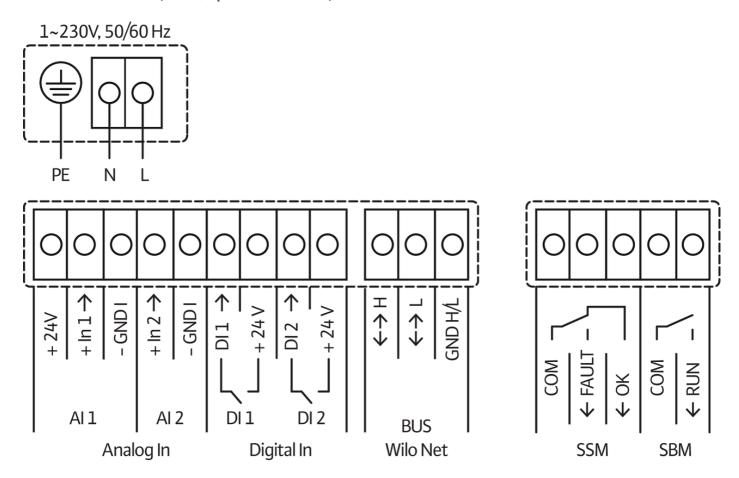


Stratos MAXO-Z 65/0,5-12 PN 6/10





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 ~)



Product data

Brand	Wilo
Product description	Stratos MAXO-Z 65/0,5-12
Article number	2164677
EAN number	4048482700199
Colour	Green/black/silver
Minimum order quantity	1
Date of sales availability	2019-02-01

Packaging

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

Dimension, weight

Length with packaging	800 mm
Length <i>L</i>	495 mm
Height with packaging	525 mm
Height <i>H</i>	340 mm
Width with packaging	600 mm
Width W	289 mm
Gross weight, approx. <i>m</i>	37.5 kg
Net weight, approx. <i>m</i>	32 kg



Premium smart-pump Wilo-Stratos MAXO-Z

High-efficiency inline glandless pump with EC motor and electronic power adjustment. Can be used for drinking water, 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. Up to 20% energy savings compared to dp-v control mode.
- > Constant temperature(T-const., factory setting)
- > 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: 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
- > Automatic deblocking function and integrated full motor protection
- > Dry-running detection
- > Automatic detection of thermal disinfection (for domestic hot water circulation) in conjunction with a separate temperature sensor

Operating data

Fluid media	Water
Fluid temperature <i>T</i>	0 °C
Ambient temperature <i>T</i>	0 °C
Maximum operating pressure PN	10 bar
Minimum suction head at 50 °C $\it m$	7.0 m
Minimum suction head at 95 °C m	15.0 m
Minimum suction head at 110 °C	23.0 m
Max. permitted total water hardness	3.57 mmol/l (20°dH)

Motor data

Energy efficiency index (EEI)	0.17
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 P _{1 max}	950.0 W
Min. speed n_{\min}	500 1/min
Max. speed n_{max}	3000 1/min
Protection class motor	IPX4D
Threaded cable connection	5 x M16x1.5

Materials

Pump housing	Stainless steel
Impeller	PPS-GF40
Shaft	1.4122, DLC-coated
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the suction side <i>DNs</i>	DN 65
Pipe connection on the pressure side <i>DNd</i>	DN 65
Port-to-port length <i>L0</i>	340 mm



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, CAN)
- > 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)
- > 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
- > 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

Information for order placements

Brand	Wilo
Product description	Stratos MAXO-Z 65/0,5-12
Net weight, approx. <i>m</i>	32 kg
Article number	2164677



- > 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, CAN
- > PT 1000 (B) pipe contact sensor (for domestic hot water)
- > PT 1000 (AA) sensor for installation in immersion well
- > Differential pressure sensor
- > Smart Gateway