



Learn more at  
[www.wilo.com](http://www.wilo.com)

## Achieve more together – that's innovative.

### **Innovative details and solutions that make our pump systems and services even more efficient.**

Wilo understands the everyday needs and challenges of those who work with building services technology, especially pump systems. That's why the experts at Wilo are always collaborating with customers and partners to develop solutions that help them work more effectively. Regardless of whether they are creating complex designs or installing and maintaining pumps and systems. Wilo is focused on the future because Wilo is shaping the future every day. **Wilo is going beyond pumps.**

### **Wilo-Stratos, the diverse one**

- Energy savings thanks to higher system efficiency provided by Q-Limit function (volume flow restriction)
- Higher energy efficiency, e.g., starting at  $EEL \leq 0.20$  for all individual pumps
- Display is easier to read
- Space-saving installation thanks to compact design and variable-orientation LC display
- Modular design for connection with any standard bus system (e.g., Modbus, BACnet, CAN, LON, PLR)
- Proven quality and reliability



**“Intelligent pumps  
like the Wilo-Stratos  
save energy – even  
as soon as the design  
stage.”**

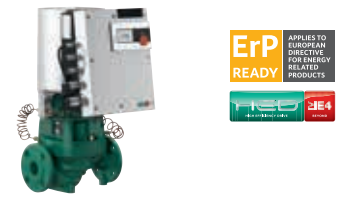


# Heating, air-conditioning, cooling

Pumps and systems for heating, air-conditioning, cooling, domestic hot water, solar and geothermal energy applications.



**Wilo-Stratos,**  
the diverse one



Product range	Glandless premium high-efficiency pumps	Glandless standard high-efficiency pumps	Glanded high-efficiency pumps in in-line design
Series	Wilo-Stratos Wilo-Stratos-D	Wilo-Yonos MAXO Wilo-Yonos MAXO-D	Wilo-Stratos GIGA
Field of application	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling, industrial process
Duty chart			
Design	Glandless circulation pump with screwed connection or flange connection, EC motor and automatic power adjustment	Glandless circulation pump with screwed connection or flange connection, EC motor and automatic power adjustment	High-efficiency in-line pump with EC motor, electronically controlled, with flange connection, in glanded design
Application	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Pumping of heating water (in accordance with VDI 2035), cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems
Volume flow Q max.	109 m <sup>3</sup> /h	55 m <sup>3</sup> /h	120 m <sup>3</sup> /h
Delivery head H max.	17 m	16 m	52 m
Technical data	<ul style="list-style-type: none"> <li>→ Fluid temperature -10 °C to +110 °C</li> <li>→ Mains connection 1~230 V, 50 Hz</li> <li>→ Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps)</li> <li>→ Protection class IP X4D</li> <li>→ Nominal diameter Rp 1 to DN 100</li> <li>→ Max. operating pressure</li> <li>→ Screw-end pumps 10 bar</li> <li>→ Flange-end pumps 6/10 bar or 6 bar (special version: 10 or 16 bar)</li> </ul>	<ul style="list-style-type: none"> <li>→ Fluid temperature -20 °C to +110 °C</li> <li>→ Mains connection 1~230 V, 50 Hz</li> <li>→ Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps)</li> <li>→ Protection class IP X4D</li> <li>→ Nominal diameter Rp 1 to DN 100</li> <li>→ Max. operating pressure</li> <li>→ Screw-end pumps 10 bar</li> <li>→ Flange-end pumps 6/10 bar</li> </ul>	<ul style="list-style-type: none"> <li>→ Fluid temperature -20 °C to +140 °C</li> <li>→ Mains connection: 3~380 V - 3~480 V (±10 %), 50/60 Hz</li> <li>→ Minimum efficiency index (MEI) ≥ 0.7</li> <li>→ Protection class IP 55</li> <li>→ Max. operating pressure 16 bar up to +120 °C, 13 bar up to +140 °C</li> </ul>
Equipment/function	<ul style="list-style-type: none"> <li>→ EC motor</li> <li>→ Control modes: Δp-c, Δp-v, Δp-T</li> <li>→ Volume flow limitation with Q-Limit function (via IR-Stick)</li> <li>→ Automatic setback operation</li> <li>→ Dual pump management</li> <li>→ Rotatable, graphical pump display</li> <li>→ Remote control via infrared interface (IR-Stick/IR-Monitor)</li> <li>→ Integrated motor protection</li> <li>→ System expansion by means of retrofitable interface modules for communication: Modbus, BACnet, CAN, LON, PLR etc.</li> <li>→ Pump housing with cataphoretic coating</li> <li>→ Combination flanges PN 6/PN 10 (for DN 32 to DN 65)</li> </ul>	<ul style="list-style-type: none"> <li>→ Control modes: Δp-c, Δp-v, 3 speed stages</li> <li>→ LED display for setting the required delivery head</li> <li>→ Quick electrical connection with Wilo plug</li> <li>→ Motor protection, fault signal light and contact for collective fault signal</li> <li>→ Pump housing with cataphoretic coating for external corrosion protection</li> <li>→ Combination flanges PN 6/PN 10 (for DN 40 to DN 65)</li> </ul>	<ul style="list-style-type: none"> <li>→ Operating modes: Δp-c, Δp-v, PID control, n=constant</li> <li>→ Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement</li> <li>→ External control functions: E.g. Over-riding Off, external pump cycling (effective only in double pump operation mode), analogue input 0-10 V/0-20 mA for manual control mode (DDC)</li> <li>→ Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation</li> <li>→ Safety functions: E.g. full motor protection, access disable</li> <li>→ Dual pump management</li> </ul>
Special features	<ul style="list-style-type: none"> <li>→ Energy savings through greater system efficiency with the Q-Limit function</li> <li>→ Improved Energy Efficiency Index (EEI) ≤ 0.20 for all single pumps.</li> <li>→ Optimised display for better readability</li> <li>→ Space-saving installation due to compact design and location-dependent LC display</li> <li>→ Modular concept for connection of all conventional bus systems (e.g. Modbus, BACnet, CAN, LON and PLR)</li> <li>→ Tried and tested quality and reliability</li> </ul>	<ul style="list-style-type: none"> <li>→ LED display for indication of set delivery head and fault codes</li> <li>→ Quick setting when replacing an uncontrolled standard pump with pre-set speed stages, e.g. TOP-S</li> <li>→ Electrical connection with Wilo plug</li> <li>→ Collective fault signal ensures system availability</li> <li>→ Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation</li> </ul>	<ul style="list-style-type: none"> <li>→ Innovative high-efficiency pump for maximum total-system efficiency</li> <li>→ High-efficiency EC motor (efficiency above IE4 limit values)</li> <li>→ Highly efficient hydraulics, optimally adapted to the EC motor technology with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 according to ErP Directive 2009/125/EC</li> <li>→ Control range is up to three times higher than that of conventional electronically controlled pumps</li> </ul>
Information	<p>Online catalogue: <a href="http://productfinder.wilo.com">productfinder.wilo.com</a></p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: <a href="http://productfinder.wilo.com">productfinder.wilo.com</a></p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: <a href="http://productfinder.wilo.com">productfinder.wilo.com</a></p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>