



Product range	Pump control	Glandless high-efficiency pumps	Submersible pumps
Series	Wilo-IR-Stick, IR-Monitor Wilo-IF-Module Stratos/Wilo-IF-Module Wilo-Protect-Module C	Wilo-Yonos PICO-STG	Wilo-Sub TWU 4 ...-GT
Field of application	Heating, air-conditioning, cooling	Solar thermal and geothermal energy	Geothermal energy systems
Duty chart	no illustration		
Design		Glandless circulation pump with screwed connection, EC motor and automatic power adjustment	Submersible pump, multistage
Application	Wilo-Control products for connecting pumps to building automation	Circulation in solar thermal and geothermal energy systems	Water supply from boreholes, wells and rainwater storage for geothermal applications
Volume flow Q max.	–	4.5 m³/h	6 m³/h
Delivery head H max.	–	13 m	33 m
Technical data	–	<ul style="list-style-type: none"> <li>→ Fluid temperature 0 °C to +110 °C</li> <li>→ Mains connection 1~230 V, 50 Hz</li> <li>→ Energy Efficiency Index (EEI) ≤ 0.23</li> <li>→ Protection class IP X4D</li> <li>→ Screwed connection Rp ½, Rp 1 and Rp 1¼</li> <li>→ Max. operating pressure 10 bar</li> </ul>	<ul style="list-style-type: none"> <li>→ Mains connection: 3~400 V, 50 Hz</li> <li>→ Immersed operating mode: S1</li> <li>→ Fluid temperature: 3~30 °C</li> <li>→ Minimum flow rate at motor: 0.08 m/s</li> <li>→ Max. sand content: 50 g/m³</li> <li>→ Up to 20 starts per hour</li> <li>→ Max. immersion depth: 200 m</li> <li>→ Minimum efficiency index MEI: ≥ 0.7</li> </ul>
Equipment/function	<p>Wilo-IR-Stick/IR-Monitor</p> <ul style="list-style-type: none"> <li>→ Remote control with infrared interface for electronically controlled Wilo pumps</li> </ul> <p>Wilo-IF-Modules Stratos/IF-Modules</p> <ul style="list-style-type: none"> <li>→ Plug-in modules for BA connection of Stratos, Stratos GIGA, Stratos GIGA B, IP-E, DP-E, IL-E/DL-E, BL-E, MHIE, MVIE, Helix VE...</li> </ul> <p>Discontinued line: (applies to Protect-Module C)</p> <p>Wilo-Protect-Module C</p> <ul style="list-style-type: none"> <li>→ Plug-in module for BA connection of uncontrolled TOP-Z pumps</li> </ul>	<ul style="list-style-type: none"> <li>→ Control modes: Δp-v, manual control mode (n = constant), external speed control with PWM 1 or PWM 2 signal</li> <li>→ Interface for PWM 1 or PWM 2 signal</li> <li>→ Quick electrical connection with Wilo-Connector</li> <li>→ Blocking-current proof motor</li> <li>→ Automatic deblocking function</li> <li>→ Pump housing with cathaphoretic coating</li> </ul>	<ul style="list-style-type: none"> <li>→ Multistage submersible pump with radial or semi-axial impellers</li> <li>→ Integrated non-return valve</li> <li>→ NEMA coupling</li> <li>→ Three-phase motor</li> <li>→ Hermetically sealed motors</li> </ul>
Special features	–	<ul style="list-style-type: none"> <li>→ Red button for setting the control mode Δp-v or the fixed speed</li> <li>→ External speed control via integrated interface PWM 1 (geothermal) and PWM 2 (solar)</li> <li>→ Flexible connection cable with Wilo-Connector</li> <li>→ Pump housing with cathaphoretic coating protects against corrosion due to condensation formation</li> <li>→ Operation and fault display via ring LED</li> </ul>	<ul style="list-style-type: none"> <li>→ Performance-optimised motors for geothermal applications</li> <li>→ Parts in contact with the fluid are corrosion-resistant</li> <li>→ Integrated non-return valve</li> <li>→ Low wear due to floating impellers</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: Water supply</p>