



Series modification



Product range	Glandless high-efficiency pumps	Glandless high-efficiency pumps	Glandless high-efficiency pumps
Series	Wilo-Star-Z NOVA	Wilo-Stratos PICO-Z	Wilo-Stratos-Z Wilo-Stratos-ZD
Field of application	Domestic hot water	Domestic hot water	Domestic hot water
Duty chart			
Design	Glandless circulation pump with screwed connection and blocking-current proof synchronous motor	Glandless circulation pump with screwed connection, EC motor and automatic power adjustment	Glandless circulation pump with screwed connection or flange connection, EC motor and automatic power adjustment
Application	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems and similar systems in industry and in building services
Volume flow Q max.	0.4 m ³ /h	3.5 m ³ /h	41 m ³ /h
Delivery head H max.	1.2 m	6 m	12 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to water hardness 3.56 mmol/l (20 °dH): max. +65 °C, in short-term duty (2 h) up to +70 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 42 → Screwed connection Rp ½ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to water hardness 3.57 mmol/l (20 °dH) max. +70 °C → In short-term duty (2 h) up to +75 °C → Mains connection 1~230 V, 50 Hz → Protection class IP X4D → Screw connection Rp ¾, Rp 1 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to a water hardness of 3.56 mmol/l (20 °dH) max. +80 °C → Heating water -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.27 for double pumps) → Protection class IP X4D → Nominal diameter Rp 1 to DN 50 → Max. operating pressure Screw-end pumps 10 bar Flange-end pumps 6/10 bar
Equipment/function	<ul style="list-style-type: none"> → Quick electrical connection with Wilo-Connector → Blocking-current proof motor → Integrated ball shut-off valve on the suction side (Star-Z NOVA A, Star-Z-NOVA C only) → Integrated non-return valve on the pressure side (Star-Z NOVA A, Star-Z-NOVA C only) → Including plug-in time switch (Star-Z NOVA C only) → Including 1.8 m connection cable with shockproof plug (Star-Z NOVA C only) → Including thermal insulation 	<ul style="list-style-type: none"> → Control mode: Δp-c, temperature-controlled mode → Temperature control for maintaining the return temperature constant in drinking water circulation systems → Thermal disinfection routine (detection and support of the thermal disinfection of the domestic hot water tank) → Reset function for resetting the electricity counter or to factory settings → "Hold" function (key lock) for locking the settings → Quick electrical connection with Wilo-Connector → Blocking-current proof motor → Automatic deblocking function → Thermal insulation 	<ul style="list-style-type: none"> → EC motor → Control modes: Δp-c, Δp-v, Δp-T → Volume flow limitation with Q-Limit function (via IR-Stick) → Pre-selectable speed for constant operation → Automatic setback operation → Dual pump management → Rotatable, graphical pump display → Remote control via infrared interface (IR-Stick/IR-Monitor) → Integrated motor protection → System expansion with retrofit communication modules LON, CAN, PLR, etc. → Combination flanges PN 6/PN 10 (for DN 40 and DN 50)
Special features	<ul style="list-style-type: none"> → Low power consumption of only 3 to 4.5 W thanks to synchronous motor → Extended field of application in calcareous water: up to 3.57 mmol/l (20 °dH) → Wilo-Connector → Safe protection against bacteria and corrosion due to the use of high-quality materials for a long service life → Flexible service motor: quick replacement of all conventional pump types 	<ul style="list-style-type: none"> → Manual and temperature-controlled mode for optimum operation → Identification of the thermal disinfection of the domestic hot water tank → Display of the current consumption in Watts and the cumulative kilowatt hours or of the current flow and the temperature → Stainless steel pump housing protects against bacteria and corrosion → Wilo-Connector 	<ul style="list-style-type: none"> → Energy savings through greater system efficiency with the Q-Limit function → Optimised display for better readability → Space-saving installation due to compact design and location-dependent LC display → Modular concept for connection of all conventional bus systems (e.g. Modbus, BACnet, CAN, LON and PLR) → Corrosion-resistant pump housing in red brass for systems where oxygen entry is possible → Tried and tested quality and reliability
Information	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>