

Pioneering for You

wilo

Delivery range - Edition 2016 - 50 Hz

General overview

Our pumps and systems for heating, air-conditioning and cooling, water supply, special applications, drainage, sewage and industrial processes.





Learn more at
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



General overview

at a glance:

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Industry **from page 77**

Pumps and systems for cooling and heating, for cleaning or for peripheral process support.



Wilo

Cutting-edge technology and strong customer loyalty

Founded in 1872 as Kupfer- und Messingwarenfabrik in Dortmund, Wilo has evolved from being a local specialist to a global player. As the majority shareholder with a stake of approximately 90 percent, the Wilo-Foundation ensures the company's continuity and independence. An uncompromising customer-driven mind-set, immediate market proximity and, in particular, our culture of innovation have made us who we are: one of the worldwide leading manufacturers of high-tech pumps and pump systems. With 16 production sites, more than 60 subsidiaries and approx. 7,500 employees in 50 countries.

Wilo is a premium supplier in the field of building services, water management and industry. Everyone working at Wilo aspires to provide the ultimate in service. Ever smaller, more efficient, quieter, more intelligent, more durable and simpler are the key factors when it comes to the development, production and operation of our pumps and systems. We offer an extensive range of products, covering everything from decentralised pump systems for single-family houses right up to large cooling water pumps for power stations. This leading position drives us to maintain our superiority. For our customers, we make complex technologies user-friendly, simple to operate, energy-efficient and powerful. The main focus of our activities is therefore on the people. We offer them outstanding products, system solutions and services. In this spirit, our brand promise "Pioneering for You" stands for maximum quality of life.



Wilo

**“It’s not just the technology
that is highly efficient at Wilo,
the support is too.”**



Wilo consulting support

Modern information and consulting applications that efficiently support you in your work.

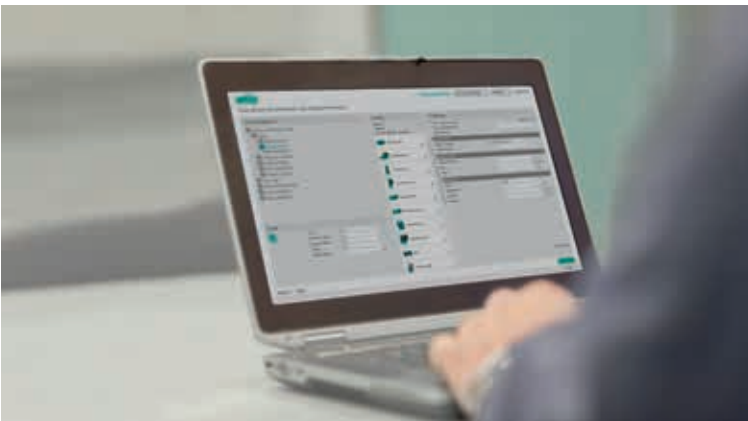


Wilo consulting support

Our software applications for your efficiency.

At Wilo, we want you to be able to concentrate from the very start on what's important, namely your work. This is why we design our pumps and pump systems so that you can integrate them as easily as possible. We also offer a selection of software applications aimed at effectively supporting you in your day-to-day work.

In addition to this, online aids, such as the Wilo-Select for pump dimensioning, the Wilo-LCC-Check for identifying saving potential, the Wilo Online Catalogue, the Wilo-CAD catalogue and the Wilo Assistant app for smartphones and tablets, quickly and reliably provide you with important information, useful tips and hints for your design work. This makes time-consuming searching and unnecessary work steps a thing of the past.



- 1 The pump selection software Wilo-Select 4 online:**
 At www.wilo-select.com, you can find the right pump for your application in seconds along with all the important information.

- 2 The online product catalogue:**
 At productfinder.wilo.com, you can access all product information with corresponding fields of application and technical details.



App Store is a service mark of Apple Inc.

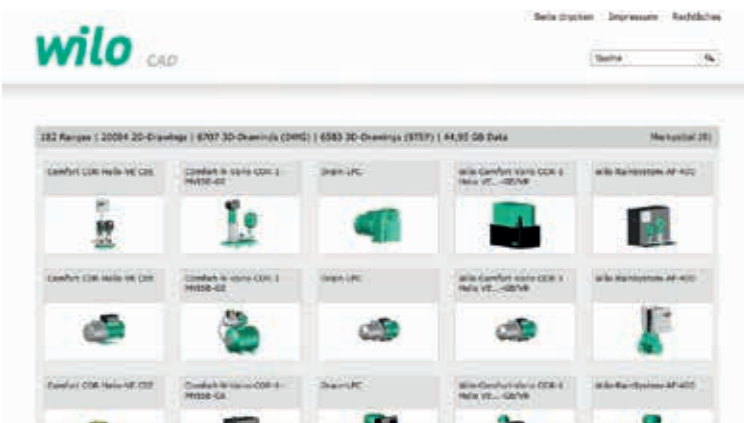


Android is a trademark of Google Inc.



As Web App for all other operating systems
app.wilo.com

- 4 The Wilo Assistant app:**
 Here you find important information and functions during onsite customer consultation directly on your smartphone or tablet. 95% of all functions do not require an Internet connection, thereby ensuring quick and reliable consultation – even in the deepest of cellars.



- 3 The online CAD catalogue:**
 You can download exact 2D and 3D drawings quickly and easily at cad.wilo.com.

**“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



Intelligent temperature control

Wilco heating, air-conditioning and cooling technology.

The right temperature and an optimal room climate are decisive factors when it comes to providing people with that all-round feeling of comfort within a building. For this purpose, we offer intelligent pumps and systems that allow water to be distributed both reliably and extremely economically.

In 2001, we developed the Wilco-Stratos, the world's first high-efficiency pump for heating, air-conditioning and cooling, and have continued to optimise our products ever since. The result: systems that can be optimally incorpo-

rated into building automation, that consume up to 90 % less energy compared to uncontrolled heating pumps and that already meet the regulations of the ErP Directive 2009/125/EC which are to come into effect over the coming years.

After all, we want you to be able to specifically plan for the future with us and want you to be certain that investing in our products will quickly pay off.



Hamburg Department for Urban Development and Environment, Germany

Task: A strict observation of the concept of sustainability and climate protection was paramount for this new building. Specific targets: A primary energy demand of 70 kWh/m²*a and a thermal heating demand of 15 kWh/m²*a corresponding to the passive house standards.

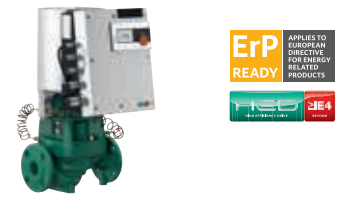
Solution: Heating and cooling of a total of 2,950 rooms with 22,000 m² of thermoactive ceilings that are supplied by Wilo pumps.



The circulation in the three separate heating circuits of the Northern wing, the West wing and the highrise building is provided by Wilo-Stratos high-efficiency pumps. In total, 42 such pumps are in use in the building.



| Product range | Glandless premium high-efficiency pumps | Glandless standard high-efficiency pumps | Glandless standard high-efficiency pumps |
|----------------------|---|---|---|
| Series | Wilo-Stratos PICO | Wilo-Yonos PICO Wilo-Yonos PICO-D | Wilo-Yonos ECO...-BMS |
| Field of application | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling |
| Duty chart | | | |
| Design | Glandless circulation pump with screwed connection, EC motor and automatic power adjustment | Glandless circulation pump with screwed connection, EC motor and automatic power adjustment | Glandless circulation pump with screwed connection, EC motor and automatic power adjustment |
| Application | Hot-water heating systems of all kinds, air-conditioning applications, industrial circulation systems | Hot-water heating systems of all kinds, air-conditioning applications, industrial circulation systems | Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems |
| Volume flow Q max. | 4 m ³ /h | 5.5 m ³ /h | 3 m ³ /h |
| Delivery head H max. | 6 m | 8 m | 5 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature +2 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (see also rating plate) → Protection class IP X4D → Screwed connection Rp ½, Rp 1 and Rp 1¼ → Max. operating pressure 10 bar | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +95 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (see also rating plate) → Protection class IP X2D → Screwed connection Rp ½, Rp 1 and Rp 1¼ → Max. operating pressure 6 bar | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (see also rating plate) → Protection class IP X4D → Screwed connection Rp 1 and Rp 1¼ → Max. operating pressure 10 bar |
| Equipment/function | <ul style="list-style-type: none"> → Control mode: Δp-c and Δp-v (Dynamic Adapt) → Automatic setback operation → Automatic venting routine → Automatic deblocking function → Display of the current power consumption or current flow and cumulative kWh → Reset function for the electricity meter or to factory settings → Hold function (Key lock) → Blocking-current proof motor → Particle filter → Quick electrical connection with Wilo-Connector → Options: version with red brass pump housing; version with short port-to-port length 130 mm | <ul style="list-style-type: none"> → Control mode: Δp-c and Δp-v → Setting of pump output (delivery head) → Automatic venting function → Automatic deblocking function → LED display for setting the setpoint and displaying actual consumption in watts → Blocking-current proof motor → Particle filter → Quick electrical connection with Wilo-Connector → Options: <ul style="list-style-type: none"> - Versions with short port-to-port length 130 mm | <ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v and manual control mode (n = constant) → Control input "Analog In 0 - 10 V" (remote speed control) → Collective fault signal (potential-free NC contact) → Control cable (4-core, 1.5 m) for connecting SSM and 0-10 V → Quick electrical connection with Wilo-Connector → Blocking-current proof motor → Deblocking function → Standard thermal insulation for heating applications |
| Special features | <ul style="list-style-type: none"> → Use in heating and air-conditioning system from +2 °C to +110 °C → Only 3 watts min. power consumption → Display for showing the current power consumption or current flow and the cumulative kWh → Wilo-Connector → Additional functions: Dynamic Adapt, venting routine, night setback function, key lock and reset function | <ul style="list-style-type: none"> → LED display for setting the setpoint in 0.1 m steps and for showing the current consumption → Electrical connection with the Wilo-Connector - no tools needed → Unique pump venting function → Easy set-up when replacing an uncontrolled standard pump with pre-selectable speed stages, e.g. Wilo-Star-RS → Very high starting torque for safe start-up | <ul style="list-style-type: none"> → Potential-free collective fault signal (SSM) for connection to external monitoring unit (e.g. building automation) and control input 0-10 V → Control cable (4-core, 1.5 m) for connecting SSM and 0-10 V → Wilo-Connector → Thermal insulation as standard → Pump housing with cathaporetic coating protects against corrosion due to condensation formation |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



| 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 m³/h | 55 m³/h | 120 m³/h |
| Delivery head H max. | 17 m | 16 m | 52 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps) → Protection class IP X4D → Nominal diameter Rp 1 to DN 100 → Max. operating pressure Screw-end pumps 10 bar Flange-end pumps 6/10 bar or 6 bar (special version: 10 or 16 bar) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps) → Protection class IP X4D → Nominal diameter Rp 1 to DN 100 → Max. operating pressure Screw-end pumps 10 bar Flange-end pumps 6/10 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V - 3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.7 → Protection class IP 55 → Max. operating pressure 16 bar up to +120 °C, 13 bar up to +140 °C |
| Equipment/function | <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) → Automatic setback operation → Dual pump management → Rotatable, graphical pump display → Remote control via infrared interface (IR-Stick/IR-Monitor) → Integrated motor protection → System expansion by means of retrofitable interface modules for communication: Modbus, BACnet, CAN, LON, PLR etc. → Pump housing with cataphoretic coating → Combination flanges PN 6/PN 10 (for DN 32 to DN 65) | <ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, 3 speed stages → LED display for setting the required delivery head → Quick electrical connection with Wilo plug → Motor protection, fault signal light and contact for collective fault signal → Pump housing with cataphoretic coating for external corrosion protection → Combination flanges PN 6/PN 10 (for DN 40 to DN 65) | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → 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) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable → Dual pump management |
| Special features | <ul style="list-style-type: none"> → Energy savings through greater system efficiency with the Q-Limit function → Improved Energy Efficiency Index (EEI) ≤ 0.20 for all single pumps. → 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) → Tried and tested quality and reliability | <ul style="list-style-type: none"> → LED display for indication of set delivery head and fault codes → Quick setting when replacing an uncontrolled standard pump with pre-set speed stages, e.g. TOP-S → Electrical connection with Wilo plug → Collective fault signal ensures system availability → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation | <ul style="list-style-type: none"> → Innovative high-efficiency pump for maximum total-system efficiency → High-efficiency EC motor (efficiency above IE4 limit values) → 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 → Control range is up to three times higher than that of conventional electronically controlled pumps |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



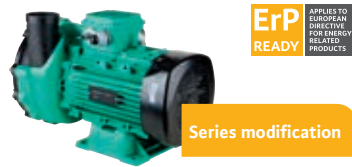
| Product range | Glanded high-efficiency pumps in monobloc design. | Glanded energy-saving pumps in in-line design | Glanded energy-saving pumps in in-line design |
|----------------------|---|--|--|
| Series | Wilo-Stratos GIGA B | Wilo-VeroLine-IP-E Wilo-VeroTwin-DP-E | Wilo-CronoLine-IL-E Wilo-CronoTwin-DL-E |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | High-efficiency monobloc pump with EC motor and electronic power adjustment in glanded pump design, with flange connection and mechanical shaft seal. | Energy-saving in-line pump/in-line double pump with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal | Energy-saving in-line pump/in-line double pump with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal |
| Application | 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 | 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 | 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. | 120 m ³ /h | 170 m ³ /h | 800 m ³ /h |
| Delivery head H max. | 52 m | 30 m | 65 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V -3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.7 → Protection class IP 55 → Max. operating pressure 16 bar up to +120 °C, 13 bar up to +140 °C | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 10 (16) bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 40 to DN 80 → Max. operating pressure 16 bar |
| Equipment/function | <ul style="list-style-type: none"> → Operating modes: Δp-c, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, External pump cycling, analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, Plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (effective only in double pump operation mode), analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (effective only in double pump operation mode), analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable |
| Special features | <ul style="list-style-type: none"> → Innovative high-efficiency pump with principal dimensions in accordance with EN 733 → High-efficiency EC motor (efficiency above IE4 limit values) → 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 → Control range is up to three times higher than that of conventional electronically controlled pumps | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → Motors with efficiency class IE4 | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → 2-pole pumps: Motors with efficiency class IE4; 4-pole-pumps: Motors with efficiency class IE4 for motors from 11 kW up to 22 kW |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



| Product range | Glanded energy-saving pumps in monobloc design | Glanded standard pumps in in-line design | Glanded standard pumps in in-line design |
|----------------------|--|---|--|
| Series | Wilo-CronoBloc-BL-E | Wilo-VeroLine-IPL Wilo-VeroTwin-DPL | Wilo-CronoLine-IL Wilo-CronoTwin-DL |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | Energy-saving pump in monobloc design with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal | Glanded pump/double pump in in-line design with screwed connection or flange connection | Glanded pump/double pump in in-line design with flange connection |
| Application | 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 | 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 | 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. | 380 m ³ /h | 245 m ³ /h | 1,170 m ³ /h |
| Delivery head H max. | 84 m | 52 m | 108 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: <ul style="list-style-type: none"> 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 125 → Max. operating pressure 16 bar (120 °C) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar (special version: 16 bar) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 250 → Max. operating pressure 16 bar (25 bar on request) |
| Equipment/function | <ul style="list-style-type: none"> → Operating modes: Δp-c (with external DDG), PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable | <ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Motor with one-piece shaft → DPL with switchover valve → Motors with efficiency class IE3 for motors ≥ 7.5 kW | <ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor → DL with switchover valve → Motors with efficiency class IE3 for motors ≥ 7.5 kW |
| Special features | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation due to tried-and-tested red-button technology and display → Integrated full motor protection with trip electronics → Meets user requirements due to performance and main dimensions in accordance with EN 733 (DIN for norm pumps) → Motors with efficiency class IE4 for motors from 11 kW up to 22 kW | <ul style="list-style-type: none"> → High standard of corrosion protection thanks to cathaphoretic coating → Standard condensate drainage holes in the motor housings and lanterns → Series design: motor with one-piece shaft → Version N: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional, force-flushed mechanical seal → DPL: Main-/standby operation or peak-load operation (via additional external device) | <ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Standard condensate drainage holes in the motor housings → Can be used flexibly in air-conditioning and cooling systems, with application benefits due to direct draining of condensate → High standard of corrosion protection → Worldwide availability of standard motors (according to Wilo specifications) and standard mechanical seals → Main/standby mode or peak-load operation (by means of external auxiliary device) |
| 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> |



| Product range | Special glanded pumps in in-line design | Special glanded pumps in in-line design | Glanded monobloc pumps |
|----------------------|---|---|--|
| Series | Wilo-VeroLine-IPH-W Wilo-VeroLine-IPH-O | Wilo-VeroLine-IPS | Wilo-CronoBloc-BL |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | Glanded pump in in-line design with flange connection | Glanded pump in in-line design with screwed connection or flange connection | Glanded pump in monobloc design with flange connection |
| Application | IPH-W: For pumping hot water without abrasive substances in closed industrial circulation systems, district heating, closed heating systems, etc. IPH-O: For pumping heat transfer oil in closed industrial circulation systems | → For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water 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. | 80 m ³ /h | 13 m ³ /h | 377 m ³ /h |
| Delivery head H max. | 38 m | 3 m | 105 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature IPH-W: -10 °C to +210 °C (at max. 23 bar) → Fluid temperature IPH-O: -10 °C to +350 °C (at max. 9 bar) → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameter DN 20 to DN 80 | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +140 °C → Mains connection 3~230 V, 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter Rp 1, DN 40 and DN 50 → Max. operating pressure 10 bar, or 6 bar for flange connection | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 150 → Max. operating pressure 16 bar (25 bar on request) |
| Equipment/function | Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Motor with special shaft | Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal or stuffing box packing → Screwed or flange connection with pressure measuring connection R ½ → Standard motor | Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW |
| Special features | <ul style="list-style-type: none"> → Self-cooled mechanical seal, independent of direction of rotation → Great variety of applications due to a wide fluid temperature range without additional wearing parts | <ul style="list-style-type: none"> → Worldwide availability of the standard motors used → Bidirectional force-flushed mechanical seal | <ul style="list-style-type: none"> → Reduced life-cycle costs through optimised efficiency levels → High corrosion protection through cathaphoresis coating of the cast iron components → Standard condensate drainage holes in the motor housings → High worldwide availability of standard motors (according to Wilo specifications) and mechanical seals → Meets user requirements due to performance and main dimensions in accordance with EN 733 (DIN for norm pumps) |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com |



| Product range | Glanded monobloc pumps | Standard glanded pumps | Standard glanded pumps |
|----------------------|---|---|--|
| Series | Wilo-BAC | Wilo-CronoNorm-NL | Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, water supply, industrial process | Heating, air-conditioning, cooling, water supply, industrial process |
| Duty chart | | | |
| Design | Glanded pump in monobloc design with screwed connection or Victaulic connection | Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate | Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate |
| Application | <ul style="list-style-type: none"> → For pumping of cooling water, cold water, water-glycol mixtures and other fluids without abrasive substances | <ul style="list-style-type: none"> → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | <ul style="list-style-type: none"> → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. |
| Volume flow Q max. | 87 m ³ /h | 650 m ³ /h | 2,800 m ³ /h |
| Delivery head H max. | 26 m | 150 m | 140 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 54 → Nominal diameter G2/G 1½ (only BAC 40.../S) or Victaulic connection Ø 60.3/48.3 mm (BAC 40.../R) Ø 76.1/76.1 mm (BAC 70.../R) → Max. operating pressure 6.5 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter on suction side DN 50 to DN 500 → Nominal diameter on pressure side DN 32 to DN 500 → Max. operating pressure: varies according to type and application – up to 16 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C (depending on type) → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameters: DN 150 to DN 500 (depending on type) → Max. operating pressure: varies according to type and application – up to 16 bar |
| Equipment/function | Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port → Motors with efficiency class IE3 | <ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Shaft coupling with spacer coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW | <ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings (NLG only) in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Greased grooved ball bearings for bearing of pump shaft → Motors with efficiency class IE3 |
| Special features | <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency levels → Pump housing in plastic design → Version with Victaulic or threaded connection (BAC 70/135... only with Victaulic connection) | <ul style="list-style-type: none"> → Reduced life-cycle costs through optimised efficiency levels → Bidirectional, force-flushed mechanical seal → Low NPSH values, best cavitation properties → Shaft coupling with or without spacer coupling | NLG: <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency → Mechanical seal independent of the direction of rotation → Interchangeable casing wear ring → Permanently lubricated, generously dimensioned roller bearings NPG: <ul style="list-style-type: none"> → Suitable for temperatures up to 140 °C → Back-pull-out version → Extension of the DIN EN 733 product range |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com |



| Product range | Axially split case pumps | Glanded energy-saving pumps Multi-pump systems | Condensate lifting units |
|----------------------|---|---|--|
| Series | Wilo-SCP | Wilo-SiFlux | Wilo-DrainLift Con |
| Field of application | Cooling, air-conditioning, water distribution/boosting, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling |
| Duty chart | | | |
| Design | Low-pressure centrifugal pump with axially split housing mounted on a baseplate | Highly efficient, fully automatic, ready for connection multi-pump system for high volume flows in heating, cold water and cooling water systems. 3 to 4 electronically controlled glanded in-line pumps switched in parallel | Automatic condensate lifting unit |
| Application | <ul style="list-style-type: none"> → Pumping heating water in accordance with VDI 2035, water-glycol mixtures, cooling/cold water and process water → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems | For pumping condensate out of <ul style="list-style-type: none"> → Heat generators with condensing boiler technology → Air-conditioning and cooling systems (such as refrigerators, refrigerated display cases and evaporators) |
| Volume flow Q max. | 3,400 m ³ /h | 490 m ³ /h | 0.6 m ³ /h |
| Delivery head H max. | 245 m | 55 m | 5.4 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameters - Suction side: DN 65 to DN 500 → Pressure side: DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type | <ul style="list-style-type: none"> → Pump type: VeroLine-IP-E or CronoLine-IL-E → Mains connection: 3~230/400 V, 50 Hz ±10 % → Fluid temperature: 0 °C to +120 °C → Pipe connections: DN 125 to DN 300 → Flanges: PN 16, according EN 1092-2 → Max. permissible operating pressure: 10 bar (IP-E), 16 bar (IL-E) | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Operating mode S3 → Max. fluid temperature 50 °C → Protection class IP 20 → Pressure connection 10 mm → Inlet connections 19/30 mm → Gross tank volume 1.2 l |
| Equipment/function | 1- or 2-stage, low-pressure centrifugal pump in monobloc design <ul style="list-style-type: none"> → Deliverable as complete unit or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors Materials: <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13 | <ul style="list-style-type: none"> → Number of pumps: 2+1 or 3+1 (2 or 3 pumps in operation, 1 standby pump each) → Automatic pump control via Wilo-SCe → Parts that come in contact with the fluid are corrosion-resistant → Base frame made of galvanised steel, with height-adjustable vibration absorbers for insulation against structure-borne noise → Distributor steel, with corrosion-resistant coating → Shut-off valves, non-return valve, pressure gauge and premounted seals → Differential pressure sensor | <ul style="list-style-type: none"> → Ready-to-plug system → Level control with float switch → Alarm signal via potential-free contact (NC/NO contact) → Integrated non-return valve → Fixation material → 5 m pressure hose |
| Special features | <ul style="list-style-type: none"> → Higher capacities up to 17,000 m³/h on request → Special motors and other materials on request | <ul style="list-style-type: none"> → Quick and easy installation → Energy-saving: Operation in partial load area according to current needs → Reliable system thanks to optimally matched components → Compact design, good accessibility to all components | <ul style="list-style-type: none"> → Low-noise operation (≤ 43 dB[A]) → Standard alarm contact (NC/NO contact) → Motor unit reversible by 180° → Variable inlets/drains → Suitable for condensates with a pH value ≥ 2.4 |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



| Product range | Particle separator systems for closed HVAC loops | Particle separator systems for closed HVAC loops | Control devices |
|----------------------|---|---|--|
| Series | Wilo-SiClean | Wilo-SiClean Comfort | Wilo-CC/CCe-HVAC system Wilo-SC/SC-FC/SCe-HVAC system Wilo-VR-HVAC system |
| Field of application | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling |
| Duty chart | no illustration | no illustration | no illustration |
| Design | Compact particle separator kit, consisting of mechanical and hydraulic components. Manual emptying of the system. | Fully-automatic, compact particle separator, provided as "Plug & Play" version, consisting of mechanical and hydraulic components. The system is drained automatically. | |
| Application | SiClean removes magnetic and non-magnetic particles from heating systems via natural physical phenomena. Installation in commercial properties and heating/air-conditioning systems for district heating. | SiClean Comfort removes particles from heating systems using natural physical phenomena. For installation in commercial properties and heating/air-conditioning systems for district heating. | Switchgear for controlling 1 to 6 pumps |
| Volume flow Q max. | 4 m ³ /h | 47 m ³ /h | – |
| Delivery head H max. | – | – | – |
| Technical data | → Fluid temperature 0 °C to +95 °C → Mains connection: 1~230 V, 50 Hz | → Fluid temperature 0 °C to +95 °C → Mains connection: 3~400 V, 50 Hz | – |
| Equipment/function | <ul style="list-style-type: none"> → Anti-corrosive, hydraulic components → Fabric-reinforced hoses connected to inlet and outlet of the particle separator → Pre-assembled venting unit for expulsion of microbubbles → Movable magnetic rods for separation of iron oxide particles → Volume flow limiter → Manual purge valve for draining of collected particles → Switchbox for monitoring the circulation pump | <ul style="list-style-type: none"> → Corrosion-resistant, hydraulic components → Fabric-reinforced hoses connected to inlet and outlet of the particle separator → Pre-assembled flushing device including electronic drain valve and additional safety valve → Automatic draining of the particle collection chamber → SC switchgear → Separator for removing magnetic and non-magnetic particles | <p>Wilo-CC-HVAC system</p> <ul style="list-style-type: none"> → Comfort control system for 1 to 6 pumps switched in parallel, with fixed speed <p>Wilo-CCe-HVAC system</p> <ul style="list-style-type: none"> → Comfort control system for 1 to 6 pumps with integrated electronics/speed control or external frequency converter control <p>Wilo-VR-HVAC system</p> <ul style="list-style-type: none"> → Vario controller for 1 to 4 pumps switched in parallel, with integrated speed control <p>Wilo-SC-HVAC system</p> <ul style="list-style-type: none"> → Smart controller for 1 to 4 pumps switched in parallel → SC and SC-FC versions for standard pumps with fixed speed → SCe version for infinitely variable, electronically controlled pumps or pumps with integrated frequency converter |
| Special features | <ul style="list-style-type: none"> → Removal of magnetic and non-magnetic particles from the medium, venting of micro bubbles → High cleaning efficiency due to physical effects (gravity, filtration...) → Easy to use due to ease of installation, maintenance, and simplified settings → Corrosion-resistant thanks to stainless steel particle separator | <ul style="list-style-type: none"> → High efficiency via combination of physical effects → fully automated operation → "Plug & Play" design → Fully automated and adjustable disposal of collected particles in the desludging tank → Highly functional thanks to removal of all magnetic and non-magnetic particles, free air and micro bubbles in the fluid and support for the degasification process | → Special versions on request |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



| 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 m ³ /h | 6 m ³ /h |
| Delivery head H max. | – | 13 m | 33 m |
| Technical data | – | <ul style="list-style-type: none"> → Fluid temperature 0 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.23 → Protection class IP X4D → Screwed connection Rp ½, Rp 1 and Rp 1¼ → Max. operating pressure 10 bar | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Fluid temperature: 3~30 °C → Minimum flow rate at motor: 0.08 m/s → Max. sand content: 50 g/m³ → Up to 20 starts per hour → Max. immersion depth: 200 m → Minimum efficiency index MEI: ≥ 0.7 |
| Equipment/function | <p>Wilo-IR-Stick/IR-Monitor</p> <ul style="list-style-type: none"> → Remote control with infrared interface for electronically controlled Wilo pumps <p>Wilo-IF-Modules Stratos/IF-Modules</p> <ul style="list-style-type: none"> → 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... <p>Discontinued line: (applies to Protect-Module C)</p> <p>Wilo-Protect-Module C</p> <ul style="list-style-type: none"> → Plug-in module for BA connection of uncontrolled TOP-Z pumps | <ul style="list-style-type: none"> → Control modes: Δp-v, manual control mode (n = constant), external speed control with PWM 1 or PWM 2 signal → Interface for PWM 1 or PWM 2 signal → Quick electrical connection with Wilo-Connector → Blocking-current proof motor → Automatic deblocking function → Pump housing with cathaphoretic coating | <ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Three-phase motor → Hermetically sealed motors |
| Special features | – | <ul style="list-style-type: none"> → Red button for setting the control mode Δp-v or the fixed speed → External speed control via integrated interface PWM 1 (geothermal) and PWM 2 (solar) → Flexible connection cable with Wilo-Connector → Pump housing with cathaphoretic coating protects against corrosion due to condensation formation → Operation and fault display via ring LED | <ul style="list-style-type: none"> → Performance-optimised motors for geothermal applications → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Low wear due to floating impellers |
| 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: Water supply</p> |



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> |



| Product range | Standard glandless pumps | Standard glandless pumps | Glanded special pumps |
|----------------------|---|---|--|
| Series | Wilo-Star-Z Wilo-Star-ZD | Wilo-TOP-Z | Wilo-VeroLine-IP-Z |
| Field of application | Domestic hot water | Domestic hot water | Domestic hot water |
| Duty chart | | | |
| Design | Glandless circulation pump with screwed connection | Glandless circulation pump with screwed connection or flange connection | Glanded circulation pump in in-line design with screwed connection |
| Application | Domestic hot water circulation systems in industry and in building services | Domestic hot water circulation systems in industry and in building services | For pumping drinking water, cold and hot water (in accordance with VDI 2035) without abrasive substances, in heating, cold water and cooling water systems |
| Volume flow Q max. | 4.8 m ³ /h | 65 m ³ /h | 5 m ³ /h |
| Delivery head H max. | 6.0 m | 9 m | 4.5 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to water hardness 3.2 mmol/l (18 °dH) max. +65 °C → In short-term duty (2 h) up to +70 °C → Mains connection 1~230 V, 50 Hz, or for Star-Z 25/2 DM 3~400 V, 50 Hz → Protection class IP 44 (IP 42 for Star-Z 15 TT) → Screwed connection Rp ½, 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 → Mains connection: <ul style="list-style-type: none"> - 1~230 V, 50 Hz (depending on type) - 3~400 V, 50 Hz - 3~230 V, 50 Hz (with optional switching plug) → Protection class IP X4D → Nominal diameter Rp 1 to DN 60 → Max. operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar | <ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to a water hardness of 4.99 mmol/l (28 °dH) max. +65 °C → In short-term duty (2 h) up to +110 °C → Heating water -8 °C to +110 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp 1 → Max. operating pressure 10 bar |
| Equipment/function | <ul style="list-style-type: none"> → Constant speed or, for Star-Z 25/6, three selectable speed stages → Blocking-current proof motor, motor protection not required → Quick connection with spring clips → Thermal insulation as standard for Star-Z 15 TT → Star-Z 15 TT with integrated timer and thermostat, LCD display with symbolic language and automatic detection of the thermal disinfection of the domestic hot water tank, as well as ball shut-off valve on the suction side and non-return valve on the pressure side → Star-ZD version as double pump | <ul style="list-style-type: none"> → Pre-selectable speed stages → Thermal insulation as standard → All plastic parts that come into contact with the fluid fulfil KTW recommendations → Combination flange PN 6/PN 10 (DN 40 to DN 65) → Extendible motor protection, signal and display functions → Full motor protection → Cable inlet into terminal box possible on both sides (starting from P1 ≥ 250 W) with integrated strain relief | <ul style="list-style-type: none"> → Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Screwed connection → Motor with one-piece shaft |
| Special features | <ul style="list-style-type: none"> → All plastic parts that come into contact with the fluid fulfil KTW recommendations | <ul style="list-style-type: none"> → Collective fault signal as potential-free contact (depending on type) → Rotation control lamp indicates the correct direction of rotation (only for 3~) → Thermal insulation as standard | <ul style="list-style-type: none"> → High resistance to corrosive fluids due to stainless steel housing and Noryl impeller → Wide range of applications due to suitability for water hardness up to 5 mmol/l (28 °dH) → All plastic parts that come into contact with the fluid fulfil KTW recommendations |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |

Standard glandless circulation pumps for non-EU markets

Inside the EU*

According to the ErP Directive (2009/125/EG) with ordinances (EG) 641/2009 and (EG) 622/2012, uncontrolled standard glandless circulation pumps are no longer allowed to be sold in the EU from 1 January 2013 on.

Exceptions to this rule are products like for example glandless circulation pumps which are integrated in heat generators. These exceptions apply until the Directive prescribes also the replacement of newly installed heat generators or solar stations from August 2015 on.

Outside the EU

Pumps of the following series are allowed to be further distributed outside the EU, however in compliance with the legislation in force in these countries.

Star-RS/RSD
TOP-S/SD
TOP-RL
Star-STG



Note

An energy efficiency evaluation and a CE conformity declaration (CE mark) do no longer exist for these products.

*Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxemburg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Great Britain

+ Croatia (EU member from 2013 on), + Turkey (candidate country), + Serbia (candidate country)

+ 4 countries of the EFTA (European Free Trade Association) Iceland, Norway, Liechtenstein, Switzerland



Non EU product



Non EU product



Non EU product

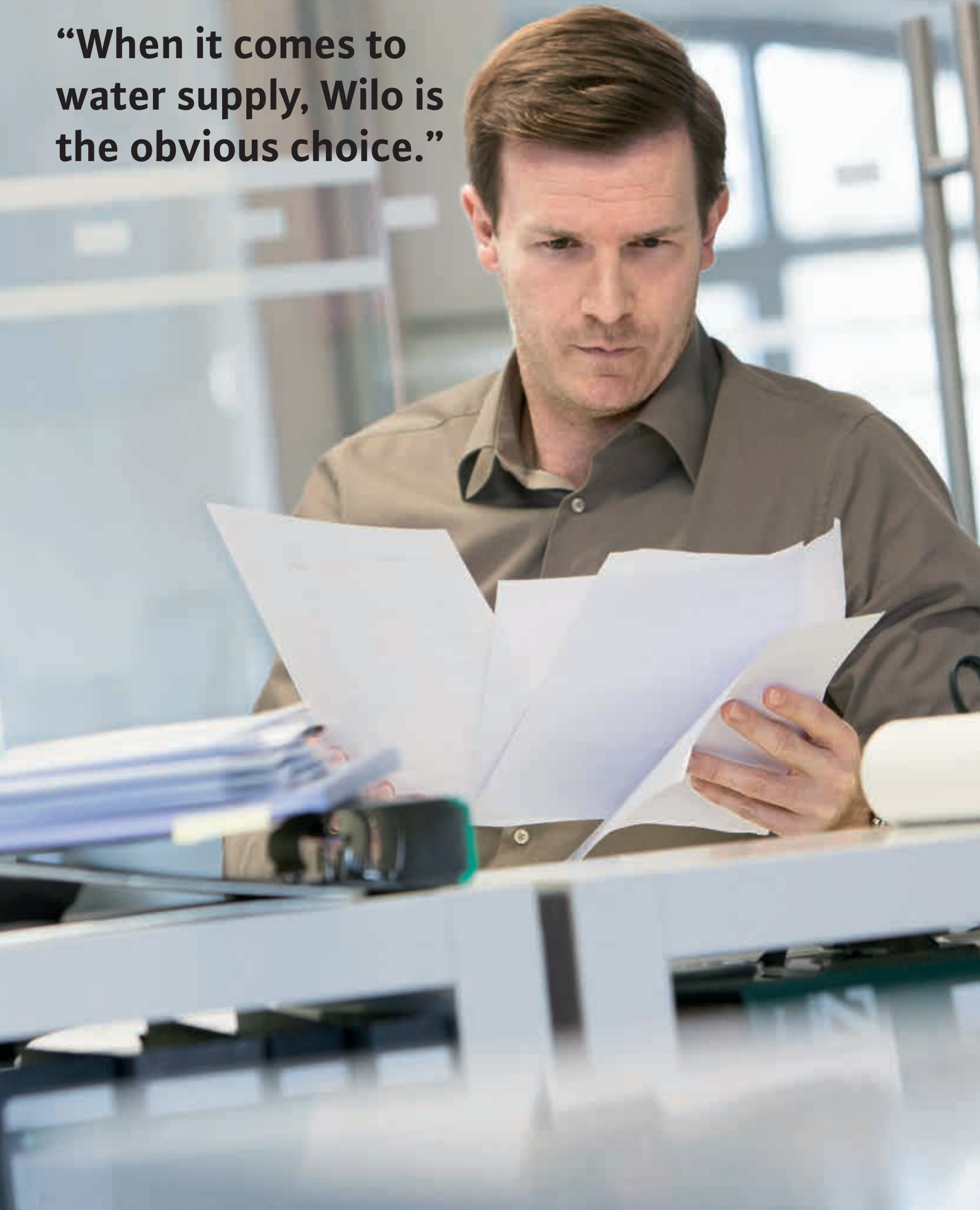
| Product range | Standard glandless pumps | Standard glandless pumps | Standard glandless pumps |
|----------------------|--|--|--|
| Series | Wilo-Star-RS Wilo-Star-RSD | Wilo-TOP-S Wilo-TOP-SD | Wilo-TOP-RL |
| Field of application | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling |
| Duty chart | | | |
| Design | Glandless circulation pump with screwed connection | Glandless circulation pump with screwed or flanged connection | Glandless circulation pump with screwed or flanged connection |
| Application | Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems | Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems | Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems |
| Volume flow Q max. | 6.0 m ³ /h | 77 m ³ /h | 10 m ³ /h |
| Delivery head H max. | 8.0 m | 19 m | 7.0 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 44 → Screw connection Rp ½, Rp 1 or Rp 1½ → Max. operating pressure 10 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +130 °C, briefly (2 h) to +140 °C → Mains connection: <ul style="list-style-type: none"> - 1~230 V, 50 Hz (depending on type) - 3~400 V, 50 Hz - 3~230 V, 50 Hz (with optional switching plug) → Protection class IP X4D → Nominal diameter Rp 1 to DN 100 → Max operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar or 6 bar (optional: 10 bar) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +130 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Protection class IP X4D → Nominal diameter Rp 1 to DN 40 → Max operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar or 6 bar (optional: 10 bar or 16 bar) |
| Equipment/function | <ul style="list-style-type: none"> → 3 manually selectable speed stages → Wrench attachment point on pump body → Blocking-current proof motor, motor protection not needed → Cable inlet possible from both sides - for easy installation → Quick connection with spring clips → RSD version as double pump | <ul style="list-style-type: none"> → Preselectable speed stages for performance adaptation → Combination flanges PN 6/PN 10 (DN 40 to DN 65) → Pump housing is KTL-coated → Thermal insulation shells for heating applications as standard → Extendable motor protection, signal and display functions → Cable inlet possible from both sides - for easy installation | <ul style="list-style-type: none"> → Preselectable speed stages for performance adaptation → Pump housing is KTL-coated → Combination flange PN 6/PN 10 (DN 40) |
| Special features | <ul style="list-style-type: none"> → Suitable for any installation position with horizontal shaft; terminal box in 3-6-9-12 o'clock position → Three pre-selectable speed stages for load adaptation → Easy and safe installation with practical wrench attachment point on the pump housing → Simplified electrical connection thanks to a terminal box where the threaded cable connection can be taken out and used from both sides; quick connection with spring clips | <ul style="list-style-type: none"> → Rotation control lamp indicates the correct direction of rotation (only for 3~) → Manual power adjustment with 3 speed stages → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation formation | <ul style="list-style-type: none"> → Collective fault signal as potential-free contact (depending on type) → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation formation |
| Information | Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling | Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling | Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling |



Non EU product

| Product range | Standard glandless pumps |
|----------------------|--|
| Series | Wilo-Star-STG |
| Field of application | Solar thermal and geothermal energy |
| Duty chart | <p>Wilo-Star-STG</p> |
| Design | Glandless circulation pump with screwed connection |
| Application | Circulation in solar thermal and geothermal energy systems |
| Volume flow Q max. | 3.8 m ³ /h |
| Delivery head H max. | 11 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C, in short-term duty (2 h) +120 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 44 → Screwed connection Rp ½, Rp 1 → Max. operating pressure 10 bar |
| Equipment/function | <ul style="list-style-type: none"> → 3 manually selectable speed stages → Wrench attachment point on pump housing → Blocking-current proof motor, motor protection not required → Cable inlet on both sides for simple installation → Quick connection with spring clips for easy electrical connection → Pump housing with cataphoretic coating for external corrosion protection |
| Special features | <ul style="list-style-type: none"> → Special hydraulics for use in solar thermal and geothermal energy systems → Pump housing with wrench attachment point → Pump housing with cataphoretic (KTL) coating to avoid corrosion when condensate builds up |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p> |

**“When it comes to
water supply, Wilo is
the obvious choice.”**



Water supply

Pumps and systems for rainwater utilisation, water supply and pressure boosting, fire fighting, clean water treatment, raw water intake, desalination and professional irrigation/agriculture.



Wilo-SiBoost Smart Helix EXCEL,
the constant pressure one

Using water efficiently

Wilo solutions for water supply.

Fresh water is becoming increasingly scarce worldwide. That is why we see it as our task to develop pumps and systems that you and your customers can use to obtain and use this precious resource in the most efficient way possible – now and in the future.

The task is not easy: on the one hand, the pumps must be able to handle water with many different kinds of contents, while on the other hand they must be powerful and durable, and at the same time economical and environmentally friendly.

We meet these challenges with intelligent solutions such as our Wilo-Helix series: this high-efficiency pump for water supply fulfils not only the stringent requirements of the Korean KEMCO certification, but also the regulations of the European ErP Directive 2009/125/EC.

Moreover, as you'll discover, we offer you the right solution for any application – at high standards of safety and low costs.

Raw water intake and water transport Ebquoreyeh, Jordan.

The task: A safe drinking water supply for 50,000 people plus energy savings.

The solution: Replacement of old pumps with two highly efficient pressure shroud pumps Wilo-EMU K 127. Power cost savings of more than 110,000 euros p.a. and energy savings of more than 1.5 million kWh p.a. were achieved. The CO₂ emissions were reduced by 1,100 tons p.a.



Drinking water transport Madaba, Jordan.

The task: A safe drinking water supply with a difference in elevation of 460 m.

The solution: Thanks to modernising two pumping stations in Wala and Libb, Wilo pumps generate a volume flow of 1,400 m³/h with a power of 315 watts and a maximum delivery head of 232 metres. In future Madaba will be supplied with 7 to 9 million m³ of water.





| Product range | Rainwater utilisation systems | Rainwater utilisation systems | Rainwater utilisation systems |
|----------------------|---|---|--|
| Series | Wilo-RainSystem AF Basic Wilo-RainSystem AF Comfort | Wilo-RainSystem AF 150 | Wilo-RainSystem AF 400 |
| Field of application | Rainwater utilisation | Rainwater utilisation | Rainwater utilisation |
| Duty chart | | | |
| Design | Ready-to-plug rainwater utilisation system with 1 MultiCargo MC self-priming centrifugal pump | Automatic rainwater utilisation system with 2 MultiCargo MC self-priming centrifugal pumps | Automatic rainwater utilisation system with run-down tank and 2 MultiPress MP non self-priming centrifugal pumps |
| Application | Rainwater utilisation for saving drinking water in conjunction with rainwater storage tanks or reservoirs | Rainwater utilisation in multi-family houses and small businesses for saving drinking water in conjunction with rainwater storage tanks or reservoirs | Hybrid system for commercial and industrial rainwater utilisation for saving drinking water in conjunction with rainwater storage tanks or reservoirs |
| Volume flow Q max. | 5 m ³ /h | 16 m ³ /h | 16 m ³ /h |
| Delivery head H max. | 52 m | 55 m | 55 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction head max. 8 m → Fluid temperature max. +5 °C to +35 °C → Max. operating pressure 8 bar → Replenishment reservoir 11 l with float valve → Protection class IP 42/IP 54 | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction head max. 8 m → Fluid temperature max. +5 °C to +35 °C → Max. operating pressure 8 bar → Replenishment reservoir 150 l with float valve → Protection class IP 41 | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Fluid temperature max. +5 °C to +35 °C → Max. operating pressure 10 bar → Replenishment reservoir 400 l → Protection class IP 54 |
| Equipment/function | <ul style="list-style-type: none"> → Connection-ready module mounted on a non-corroding base frame → Pressure-side pipework Rp 1 → 1.8/3.0 m connection cable and mains plug → Switchgear Rain Control Basic RCB/Economy RCE with control electronics → Monitoring of rainwater storage levels → Connection for overflow warning | <ul style="list-style-type: none"> → Connection-ready module mounted on vibration-insulated painted steel tubular frames → Joint tubing R 1 ½ on the pressure side, including transmitter unit, diaphragm pressure vessel, shut-off device → Pressure gauge 0-10 bar → Ball valve on suction and pressure sides → RainControl Professional central switchgear with control electronics, level sensor → Menu-prompted operation and display → Pump cycling and test run → Automatic fault-actuated switchover and peak-load operation → Automatic water exchange in the replenishment reservoir, prevents lime deposits | <ul style="list-style-type: none"> → Connection-ready module mounted on vibration-insulated baseplate → Joint tubing R 1 ½ on the pressure side, including transmitter unit, diaphragm pressure vessel, shut-off device → Pressure gauge 0-10 bar → Ball valve on suction and pressure sides and non-return valve → Hybrid tank with all connections, calmed inlets and overflow with siphon → RainControl Hybrid central switchgear with control electronics → Pump cycling and test run → Automatic fault-actuated switchover and peak-load operation → Automatic water exchange in the replenishment reservoir |
| Special features | <ul style="list-style-type: none"> → Low-noise, due to multistage pump and complete encapsulation of the system (AF Comfort) → Meets the requirements of DIN 1988 and EN 1717 → Demand-oriented fresh water replenishment → Flow- and noise-optimised replenishment reservoir → All parts that come in contact with the fluid are corrosion-free → For AF Comfort: automatic support function for evacuation of air from the suction line | <ul style="list-style-type: none"> → Low-noise due to multistage pumps → All parts that come in contact with the fluid are corrosion-free → Maximum operational reliability due to fully electronic RainControl Professional controller → Demand-oriented fresh water replenishment → High reliability due to flow-optimised and noise-optimised replenishment reservoir | <ul style="list-style-type: none"> → Low-noise due to multistage pumps → All parts that come in contact with the fluid are corrosion-free → Maximum operational reliability due to a trendsetting fully electronic RainControl Hybrid controller → Demand-oriented fresh water replenishment → High reliability due to flow-optimised and noise-optimised overall concept → Automatic control of the feeding pump → System/level control in the low-voltage range |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



| Product range | Self-priming multistage pumps and pump systems | Self-priming multistage pumps and pump systems | Non self-priming multistage pumps and pump systems |
|----------------------|--|---|--|
| Series | Wilo-Jet WJ Wilo-Jet HWJ Wilo-Jet FWJ | Wilo-MultiCargo MC Wilo-MultiCargo HMC Wilo-MultiCargo FMC | Wilo-MultiPress MP Wilo-MultiPress HMP Wilo-MultiPress FMP |
| Field of application | Rainwater utilisation, water distribution/boosting, raw water intake | Rainwater utilisation, water distribution/boosting, raw water intake | Rainwater utilisation, water distribution/boosting, raw water intake |
| Duty chart | | | |
| Design | Self-priming single-stage centrifugal pumps | Self-priming multistage centrifugal pumps | Non self-priming multistage centrifugal pumps |
| Application | For pumping water from wells for filling, pumping empty, transferring by pumping, irrigation and sprinkling. As emergency pump for overflows | For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation | For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation |
| Volume flow Q max. | 5 m ³ /h | 7 m ³ /h | 8 m ³ /h |
| Delivery head H max. | 50 m | 57 m | 57 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz → Inlet pressure max. 1 bar → Fluid temperature max. +5 °C to +35 °C → Max. operating pressure 6 bar → Protection class IP 44 → Suction/pressure side connections: <ul style="list-style-type: none"> - WJ: G 1/G 1 - FWJ: G 1/R 1 - HWJ: G 1/Rp 1 | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz → Inlet pressure max. 4 bar → Fluid temperature max. +5 °C to +35 °C → Ambient temperature max. +40 °C → Max. operating pressure 8 bar → Protection class IP 54 → Suction/pressure side connections: <ul style="list-style-type: none"> - MC: Rp 1/Rp 1 - FMC: Rp 1/R 1 - HMC: Rp 1/Rp 1 | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz → Inlet pressure max. 6 bar → Fluid temperature max. +5 °C to +35 °C → Ambient temperature max. +40 °C → Max. operating pressure 10 bar → Protection class IP 54 → Suction/pressure side connections: <ul style="list-style-type: none"> - MP 3.. Rp 1/Rp 1; MP 6.. Rp 1¼/Rp 1 - FMP 3.. Rp 1/R 1; FMP 6.. Rp 1¼/Rp 1 - HMP 3.. Rp 1/Rp 1; HMP 6.. Rp 1¼/Rp 1 |
| Equipment/function | <ul style="list-style-type: none"> → With or without carrying frame, depending on the version (WJ, FWJ) → For single-phase AC motor (1~230 V) <ul style="list-style-type: none"> - Connection cable with plug - On/Off switch → Thermal motor protection switch | <ul style="list-style-type: none"> → Directly flanged motor → Thermal motor protection switch for single-phase AC motor (1~230 V) | <ul style="list-style-type: none"> → Directly flanged motor → Thermal motor protection switch for 1~230 V version |
| Special features | <ul style="list-style-type: none"> → Ideal for portable outdoor applications (hobby, garden) → HWJ version with diaphragm pressure vessel and pressure switch → FWJ version with fluid control for system control | <ul style="list-style-type: none"> → Low-noise → Ideal as a base-load pump for rainwater utilisation → HMC version with diaphragm pressure vessel and pressure switch → FMC version with fluid control for system control | <ul style="list-style-type: none"> → Low-noise → Ideal as a base-load pump for rainwater utilisation → HMP version with diaphragm pressure vessel and pressure switch → FMP version with fluid control for system control |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



| Product range | Self- and non self-priming multistage pumps and pump systems | Non self-priming peripheral pump | Non self-priming water-supply unit with frequency converter |
|----------------------|--|---|---|
| Series | Wilo-HiMulti 3 (P) Wilo-HiMulti 3 C (P) Wilo-HiMulti 3 H (P) | Wilo-HiPeri 1 | Wilo-EMHIL |
| Field of application | Rainwater utilisation, water distribution/boosting, raw water intake | Water distribution/boosting, raw water intake, rainwater utilisation | Rainwater utilisation, water distribution/boosting, raw water intake |
| Duty chart | | | |
| Design | Self-priming (version P) and non self-priming multistage pumps and pump systems | Non self-priming peripheral pump | Non self-priming water-supply unit with frequency converter |
| Application | For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation | For water distribution/boosting, raw water intake, sprinkling and spraying, rainwater utilisation | <ul style="list-style-type: none"> → Water supply → Rainwater utilisation → Irrigation and spraying |
| Volume flow Q max. | 7 m ³ /h | 3 m ³ /h | 55 m ³ /h |
| Delivery head H max. | 55 m | 8 m | 8 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Inlet pressure max. 3 bar → Fluid temperature max. 0 °C to +40 °C (+55 °C for max. 10 minutes) → Operating pressure max. 8 bar → Protection class IP X4, IP 54 → Suction/pressure side connections: <ul style="list-style-type: none"> - HiMulti 3 (P): G1/G1 - HiMulti 3 C (P): G1/G1 - HiMulti 3 H (P): G1/Rp1 (adapter with male thread on both sides is enclosed) | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Inlet pressure max. 1.5 bar → Fluid temperature max. +5 °C to +60 °C → Max. operating pressure 6.5 bar → Protection class IP x4 → Suction/pressure side connections: Rp 1" | <ul style="list-style-type: none"> → Max. operating pressure: 10 bar → Max. fluid temperature: 40 °C → Min. fluid temperature: 0 °C → Max. ambient temperature: 50 °C → Mains connection: 1~230 V, 50/60 Hz |
| Equipment/function | <ul style="list-style-type: none"> → Directly flanged motor → Thermal motor protection switch for 1~230 V version → Version HiMulti 3 C (P): Automatic pump control, low-water level switch → Version HiMulti 3 H (P): Pressure switch, diaphragm pressure vessel 50 l/100 l | <ul style="list-style-type: none"> → Single-stage displacement pump with a radial impeller → Can be supplemented by the Wilo-FluidControl resp. HiControl 1 | <ul style="list-style-type: none"> → Including 1.4 m mains connection and plug → Including EMC filter → With built-in pressure and flow controllers |
| Special features | <ul style="list-style-type: none"> → Easy: Wilo-Connector (electrical quick connector), On/Off switch, cap for filling and draining, enlarged foot fastening → Efficient and economical: highly efficient hydraulics, low energy consumption, extremely compact due to optimised motor → Low-noise operation → Version HiMulti 3 (P): Version as pump for domestic water supply → Version HiMulti 3 C (P): Automation and dry-running protection, 360° rotatable automation for easier installation → Version HiMulti 3 H (P): Automation and water hammer protection due to pressure switch and diaphragm pressure vessel | <ul style="list-style-type: none"> → Simple handling thanks to low weight, perfectly suited for permanent operation → Brass impeller for fluids up to 60 °C and ambient temperatures up to 40 °C → Efficient thanks to low power consumption at a high maximum delivery head and high maximum volume flow → Expandable with the electronic pump control Wilo-Fluidcontrol/HiControl 1 | <ul style="list-style-type: none"> → Heavy-duty multistage pump with stainless steel hydraulics → Easy operation and adjustment: <ul style="list-style-type: none"> - Large display screen - LEDs for status display - Plug & Pump → Functions: PID, frost protection, restart after a fault → Float switch can be connected as an option |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply |



| Product range | Cistern pumps | Non self-priming water-supply unit | Vertical, multistage centrifugal pumps |
|----------------------|--|---|--|
| Series | Wilo-Sub TWI 5/TWI 5-SE Wilo-Sub TWI 5-SE PnP | Wilo-Economy COE-2 TWI 5 | Wilo-Helix EXCEL |
| Field of application | Rainwater utilisation, water distribution/boosting, raw water intake | Water distribution/boosting | Water distribution/boosting |
| Duty chart | | | |
| Design | Submersible pumps | Pressure boosting system with two parallel submersible pumps | Non self-priming, highly efficient, fully stainless steel high-pressure multistage centrifugal pump with EC motor with integrated high-efficiency drive |
| Application | For domestic water supply from wells, rainwater storage tanks, and reservoirs. For irrigation, sprinkling, rainwater utilisation or for pumping out water | Pressure boosting and water supply in residential applications and for small commercial installations that require compact construction and a low noise level | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process water → Cooling water circulation systems → Washing systems → Irrigation |
| Volume flow Q max. | 16 m ³ /h | 14 m ³ /h | 58 m ³ /h |
| Delivery head H max. | 88 m | 68 m | 243 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz → Fluid temperature max. +3 °C to +40 °C → Max. operating pressure 10 bar → Protection class IP 68 → Pressure-side connection Rp 1½ → Suction-side connection for SE version Rp 1½ | <ul style="list-style-type: none"> → Mains connection 3~400 V or 1~230 V ±10% 50 Hz → Fluid temperature max: +40°C → Operating pressure max: 10 bar → Nominal connection diameters G 2" | <ul style="list-style-type: none"> → Fluid temperature: -20 to +120 °C with EPDM (-10 to +90 °C with FKM) → Max. operating pressure: 16/25 bar → Protection class IP 55 → Minimum efficiency index MEI ≥ 0.7 |
| Equipment/function | <ul style="list-style-type: none"> → Connection cable, 20 m → TWI 5 version with standard intake strainer → Variants: <ul style="list-style-type: none"> - SE: with lateral inlet connecting piece - FS: with built-in float switch → Thermal motor protection for EM version (1~230 V) | <ul style="list-style-type: none"> → Intake and outflow collector pipes → Ball shut-off valves on the suction side and pressure side → Non-return valve on the pressure side → 1 manometer → 2 pressure switches → BC switchgear | <ul style="list-style-type: none"> → Impellers, guide vane apparatuses and stage housings made of corrosion-resistant material → Versions in special stainless steel for aggressive media → Versions <ul style="list-style-type: none"> - Helix EXCEL 2 - 16, PN 16 with oval flanges, PN 25/Pmax: 30 bar with round flanges - Helix EXCEL 22 - 36, PN 16 and PN 25/Pmax: 30 bar with round flanges |
| Special features | <ul style="list-style-type: none"> → Ready-to-plug in EM version (1~230 V) → Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304) → Self-cooling motor enables installation outside water | <ul style="list-style-type: none"> → Pumps in the TWI 5 series with low noise due to water-cooled motor, between 51 dB (A) and 61 dB (A) → 2-pump pressure boosting system in compact design due to vertical pump layout → Economical system, based on the basic functions of the BC switchgear → Long service life due to the stainless steel construction of the pumps and the piping | <ul style="list-style-type: none"> → Highly efficient EC motor (better than IE4 efficiency value) → Integrated electronic control "High Efficiency Drive" → Easy operation thanks to proven red-button technology and clear display → User-friendly cartridge mechanical seal "X-Seal" and spacer coupling (from 5.5 kW) → Flexible connection to building automation → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



Series modification



Series modification



Series extension

| Product range | Vertical, multistage centrifugal pumps | Vertical, multistage centrifugal pumps | Vertical, multistage centrifugal pumps |
|----------------------|---|---|---|
| Series | Wilo-Helix VE | Wilo-Helix V | Wilo-Helix FIRST V |
| Field of application | Water distribution/boosting | Water distribution/boosting, professional irrigation/agriculture | Water distribution/boosting, professional irrigation/agriculture |
| Duty chart | | | |
| Design | Non self-priming multistage pump with integrated frequency converter | Non self-priming multistage pump | Non self-priming multistage pump |
| Application | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process water → Cooling water circulation systems → Washing systems → Irrigation | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process water → Cooling water circulation systems → Fire extinguishing systems → Washing systems → Irrigation | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process water → Cooling water circulation systems → Fire extinguishing systems → Washing systems → Irrigation |
| Volume flow Q max. | 80 m ³ /h | 80 m ³ /h | 80 m ³ /h |
| Delivery head H max. | 240 m | 280 m | 280 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -30 to +120 °C → Max. operating pressure 16/25 bar → Max. inlet pressure 10 bar → Protection class IP 55 → Minimum efficiency index MEI ≥ 0.7 | <ul style="list-style-type: none"> → Fluid temperature -30 to +120 °C → Max. operating pressure 16/25 bar → Max. inlet pressure 10 bar → Protection class IP 55 → Minimum efficiency index MEI ≥ 0.7 (Helix V 16: MEI ≥ 0.5) | <ul style="list-style-type: none"> → Fluid temperature range: -20 to 120 °C → Max. operating pressure: 16/25/30 bar → Protection class: IP 55 → Round flange in accordance with ISO 2531 and ISO 7005 → Minimum efficiency index MEI ≥ 0.7 (Helix FIRST V 16: MEI ≥ 0.5) |
| Equipment/function | <ul style="list-style-type: none"> → Impellers, stage chambers and pump housing made of stainless steel 1.4301/1.4404 (AISI 304L/AISI 316L) → Versions in special stainless steel for aggressive media → PN 16 and PN 25/Pmax: 30 bar with round flanges in accordance with ISO 2531 and ISO 7005 → IEC standard three-phase AC motor → Integrated frequency converter | <ul style="list-style-type: none"> → Impellers, stage chambers and pump housing made of stainless steel 1.4301/1.4404 (AISI 304L/AISI 316L) → Versions in special stainless steel for aggressive media → Versions <ul style="list-style-type: none"> - Helix V 2 - 16, PN 16 with oval flanges, PN 25 with round flanges - Helix V 22 - 52, PN 16 and PN 25 with round flanges → IEC standard three-phase AC motor | <ul style="list-style-type: none"> → Corrosion-resistant impellers, guide vane apparatuses and stage housings |
| Special features | <ul style="list-style-type: none"> → Easy pump replacement without pipe modification, thanks to the modular pump housing → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) | <ul style="list-style-type: none"> → Easy pump replacement without pipe modification, thanks to the modular pump housing → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) | <ul style="list-style-type: none"> → Efficiency-optimised, laser-welded, optimised 2D/3D hydraulics → Economic and low acquisition costs thanks to compact installation → Compatible connections allow in-stallation into existing pipework with Helix V pumps → Special, firmly attached transport eyelets allow a safe pump transport |
| Information | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> |



| Product range | Vertical and horizontal, multistage centrifugal pumps | Vertical, multistage centrifugal pumps | Vertical, multistage centrifugal pumps |
|----------------------|---|--|---|
| Series | Wilo-Zeox FIRST H Wilo-Zeox FIRST V | Wilo-Multivert MVIE | Wilo-Multivert MVI |
| Field of application | Rainwater utilisation, water distribution/boosting, raw water intake | Water distribution/boosting, professional irrigation/agriculture | Water distribution/boosting, professional irrigation/agriculture |
| Duty chart | | | |
| Design | Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical or horizontal design with off-line connections | Non self-priming multistage pump with integrated frequency converter | Non self-priming multistage pump |
| Application | For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process engineering → Cooling water circulation systems → Washing and sprinkling systems | <ul style="list-style-type: none"> → Water supply and pressure boosting → Fire extinguishing systems → Boiler feed → Industrial circulation systems → Process engineering → Cooling water circulation systems → Washing and sprinkling systems |
| Volume flow Q max. | 280 m ³ /h | 145 m ³ /h | 155 m ³ /h |
| Delivery head H max. | 495 m | 100 m | 240 m |
| Technical data | <ul style="list-style-type: none"> → Permitted temperature range of the fluid: -5 °C to +90 °C → Max. suction pressure: <ul style="list-style-type: none"> - Zeox FIRST .. V/.. H: 6/16 bar → Max. operating pressure: <ul style="list-style-type: none"> - Zeox FIRST V: 27 bar - Zeox FIRST H (DN65 to DN100): 50 bar; Zeox FIRST H (DN150): 40 bar → Protection class: IP 55 → Minimum efficiency index MEI ≥ 0.4 (for Zeox FIRST V up to 100 m³/h) | <ul style="list-style-type: none"> → Fluid temperature -15 to +120 °C → Max. operating pressure 16 bar/25 bar → Max. inlet pressure 10 bar → Protection class IP 54 or IP 55 → Minimum efficiency index MEI ≥ 0.1 (for the series) | <ul style="list-style-type: none"> → Fluid temperature -15 to +120 °C → Max. operating pressure 16/25 bar → Max. inlet pressure 10 bar → Protection class IP 55 → Minimum efficiency index MEI ≥ 0.1 (for the series) |
| Equipment/function | <ul style="list-style-type: none"> → IE3 high-efficiency motor as standard → Flushing by-pass device to ensure a long service life → Packing gland on request, exchangeable without disassembling the pump | <ul style="list-style-type: none"> → Stainless steel pump in in-line design → PN 16/25 with round flange → Integrated frequency converter → IEC standard motor, 2-pole, AC motor with thermal motor protection → Protection against low water level | <ul style="list-style-type: none"> → Stainless steel pump in in-line design → Versions <ul style="list-style-type: none"> - MVI 1.. to 8.. PN 16 with oval flanges, PN 25 with round flange - MVI 70.. to 95.. PN 16/PN 25 with round flange - Victaulic connections (PN 25) depending on pump type → IEC standard motor, 2-pole |
| Special features | <ul style="list-style-type: none"> → High-efficiency hydraulics and high-efficiency IE3 motor → Standard rinsing device for the sealing system → Additional flange alignments and stuffing box packing on request → Bronze impeller on request | <ul style="list-style-type: none"> → Large control range → Stainless steel or with pump housing made of cathaphoretic-coated cast iron → All relevant components have KTW and WRAS approval | <ul style="list-style-type: none"> → MVI 1..-8.. all parts that come in contact with the fluid are made of stainless steel → MVI 70..-95.. in stainless steel or with pump housing made of cathaphoretic-coated cast iron → All relevant components have KTW and WRAS approval |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply |



| Product range | Vertical, multistage centrifugal pumps | Vertical, multistage centrifugal pumps | Horizontal, multistage centrifugal pumps |
|----------------------|---|--|--|
| Series | Wilo-Multivert MWISE | Wilo-Multivert MVIS | Wilo-Economy MHIE |
| Field of application | Water distribution/boosting | Water distribution/boosting | Water distribution/boosting |
| Duty chart | | | |
| Design | Non self-priming multistage pump with glandless pump motor and integrated frequency converter | Non self-priming multistage pump with glandless pump motor | Non self-priming multistage pump with integrated frequency converter |
| Application | → Water supply and pressure boosting | → Water supply and pressure boosting | <ul style="list-style-type: none"> → Water supply and pressure boosting → Industrial circulation systems → Process engineering → Cooling water circulation systems → Washing and sprinkling systems |
| Volume flow Q max. | 14 m ³ /h | 14 m ³ /h | 32 m ³ /h |
| Delivery head H max. | 110 m | 110 m | 88 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -15 to +50 °C → Operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP 44 → Compliant with EMC standards EN 61000-6-1 and EN 61000-6-2 | <ul style="list-style-type: none"> → Fluid temperature -15 to +50 °C → Operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP 44 | <ul style="list-style-type: none"> → Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP 54 |
| Equipment/function | <ul style="list-style-type: none"> → Stainless steel pump in in-line design → Glandless pump → Self-venting → Hydraulics in 1.4301 → Oval flange, round flange → Three-phase AC motor with integrated frequency converter and LC display → Integrated thermal motor protection → Protection against low water level | <ul style="list-style-type: none"> → Stainless steel pump in in-line design → Three-phase AC motor in glandless pump design | <ul style="list-style-type: none"> → Stainless steel in monobloc design → Threaded connection → Integrated frequency converter → Single-phase or three-phase AC motor → Three-phase version with LCD display for status indication → Integrated thermal motor protection |
| Special features | <ul style="list-style-type: none"> → Easy commissioning → Glandless pump technology → Low-noise (up to 20 dB(A) quieter than conventional pumps) → Integrated frequency converter → All components that come in contact with the fluid are made of stainless steel → All relevant components have KTW and WRAS approval | <ul style="list-style-type: none"> → Low-noise (up to 20 dB(A) quieter than conventional pumps) → All parts that come in contact with the fluid are corrosion-resistant → Glandless pump technology → All relevant components have KTW and WRAS approval | <ul style="list-style-type: none"> → Easy commissioning → All parts that come in contact with the fluid are made of stainless steel → Compact design → Integrated frequency converter → Full motor protection → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply |



| Product range | Horizontal, multistage centrifugal pumps | Horizontal, multistage centrifugal pumps | Vertical, multistage centrifugal pumps |
|----------------------|---|--|--|
| Series | Wilo-Economy MHI | Wilo-Economy MHIL | Wilo-Multivert MVIL |
| Field of application | Water distribution/boosting | Water distribution/boosting | Water distribution/boosting |
| Duty chart | | | |
| Design | Non self-priming multistage pump | Non self-priming multistage pump | Non self-priming multistage pump |
| Application | <ul style="list-style-type: none"> → Water supply and pressure boosting → Commerce and industry → Cooling water circulation systems → Washing and sprinkling systems | <ul style="list-style-type: none"> → Water supply and pressure boosting → Commerce and industry → Washing and spraying systems → Rainwater utilisation → Cooling and cold water circulation systems | <ul style="list-style-type: none"> → Water supply and pressure boosting → Commerce and industry → Washing and spraying systems → Rainwater utilisation → Cooling and cold water circulation systems |
| Volume flow Q max. | 25 m³/h | 13 m³/h | 13 m³/h |
| Delivery head H max. | 70 m | 68 m | 135 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP 54 | <ul style="list-style-type: none"> → Fluid temperature -15 to +90 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP 54 | <ul style="list-style-type: none"> → Fluid temperature -15 to +90 °C → Max. operating pressure of 10 bar → Max. inlet pressure 6 bar → Protection class IP 54 → Minimum efficiency index MEI ≥ 0.1 (for the series) |
| Equipment/function | <ul style="list-style-type: none"> → Stainless steel pump in monobloc design → Threaded connection → Single-phase or three-phase AC motor → Single-phase AC motor with integrated thermal motor protection | <ul style="list-style-type: none"> → Pump in monobloc design → Threaded connection → Single-phase or three-phase AC motor → Single-phase AC motor with integrated thermal motor protection | <ul style="list-style-type: none"> → Pump in in-line design → Oval flange → Single-phase or three-phase AC motor → Single-phase AC motor with integrated thermal motor protection |
| Special features | <ul style="list-style-type: none"> → All parts that come in contact with the fluid are made of stainless steel → Compact design → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) | <ul style="list-style-type: none"> → Impellers and stage chambers made of 1.4301 stainless steel (AISI 304) → Pump housing made of grey cast iron EN-GJL-250, with cataphoretic coating | <ul style="list-style-type: none"> → Impellers and stage chambers made of 1.4301 stainless steel (AISI 304) → Pump housing made of grey cast iron EN-GJL-250, with cataphoretic coating |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



Series modification
Series extension



| Product range | Single-pump pressure boosting systems with speed-controlled pump | Single-pump pressure boosting systems | Single-pump pressure boosting system with system separation |
|----------------------|---|---|--|
| Series | Wilo-Comfort-N-Vario COR-1 MVISE ... Wilo-Comfort-Vario COR-1 MVIE ... Wilo-SiBoost Smart 1 Helix VE ... Wilo-Comfort-Vario COR-1 MHIE... | Wilo-Economy CO-1 MVIS ... /ER Wilo-Economy CO-1 MVI ... /ER Wilo-Economy CO-1 Helix V ... /CE+ | Wilo-Economy CO/T-1 MVI ... /ER |
| Field of application | Water distribution/boosting | Water distribution/boosting | Water distribution/boosting |
| Duty chart | | | |
| Design | Water-supply units with a non self-priming, high-pressure multistage centrifugal pump with integrated speed control of the series MVISE, MVIE, Helix VE or MHIE | Water supply systems with a non self-priming, high-pressure multistage centrifugal pump of the series MVIS, MVI or Helix V | Water supply systems with system separation and a non self-priming, high-pressure multistage centrifugal pump of the MVI series |
| Application | For fully automatic water supply in inlet mode from the public water supply network or from a reservoir → For pumping drinking water, process water, cooling water, water for fire-fighting or other service water | For fully automatic water supply in inlet mode from the public water supply network or from a reservoir → For pumping drinking water, process water, cooling water, water for fire-fighting or other service water | For fully automatic water supply in inlet mode from the public water supply network → For pumping drinking water and process water, cooling water, water for fire-fighting or other service water |
| Volume flow Q max. | 165 m ³ /h | 135 m ³ /h | 8 m ³ /h |
| Delivery head H max. | 160 m | 160 m | 110 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP 44/IP 54 | <ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Switching pressure stages 6 / 10 / 16 bar → Protection class IP 41/IP 54 | <ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz (other versions on request) → Max. fluid temperature 50 °C → Operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP 41 |
| Equipment/function | <ul style="list-style-type: none"> → All parts that come in contact with the fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16 | <ul style="list-style-type: none"> → Components that come in contact with fluid are corrosion-resistant → Base frame made of stainless steel 1.4301 with height-adjustable vibration absorbers for insulation against structure-borne noise → Pipework made of stainless steel 1.4571 → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side | <ul style="list-style-type: none"> → PE break tank, atmospherically ventilated (120 l) → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Break tank including float valve and float switch → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Low-water cut-out switchgear |
| Special features | <ul style="list-style-type: none"> For systems with MVISE pump → Up to 20 dB(A) quieter than comparable systems For systems with Helix VE pump → Optimised hydraulics → Cartridge mechanical seal → IE4 standard motor | <ul style="list-style-type: none"> For systems with MVI pump → Up to 20 dB(A) quieter than comparable systems For systems with Helix V pump → Optimised hydraulics → Cartridge mechanical seal | <ul style="list-style-type: none"> → Compact system, ready for connection, for all applications that require system separation |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



Series modification
Series extension



| Product range | Multi-pump pressure boosting systems with speed-controlled pumps or base-load pump | Multi-pump pressure boosting systems with speed-controlled pumps | Multi-pump pressure boosting systems with speed-controlled pumps or base-load pump |
|----------------------|--|---|---|
| Series | Wilo-SiBoost Smart Helix V Wilo-SiBoost Smart Helix VE Wilo-SiBoost Smart Helix EXCEL | Wilo-Comfort-Vario-COR 2-4 MHIE .../VR Wilo-Comfort-N-Vario-COR 2-4 MWISE .../VR Wilo-Comfort-Vario-COR 2-4 MVIE .../VR | Wilo-Comfort-N-COR 2-6 MVIS .../CC Wilo-Comfort-COR 2-6 MVI .../CC Wilo-Comfort-COR 2-6 Helix V .../CC Wilo-Comfort-COR 2-6 Helix VE .../CC |
| Field of application | Water distribution/boosting | Water distribution/boosting | Water distribution/boosting |
| Duty chart | | | |
| Design | Highly efficient pressure boosting system with 2 to 4 stainless steel, non self-priming, high-pressure, multi-stage centrifugal pumps (Helix V, VE or EXCEL) switched in parallel | Pressure boosting system with 2 to 4 non self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in parallel, with integrated speed control | Pressure boosting system with speed control and 2 to 6 non self-priming, stainless steel, high-pressure, multi-stage centrifugal pumps switched in parallel |
| Application | For fully automatic water supply and pressure boosting in residential and office buildings and in industrial systems → For pumping drinking water and process water, cooling water, water for fire-fighting or other service water | For fully automatic water supply and pressure boosting in residential and office buildings and in industrial systems → For pumping drinking water and process water, cooling water, water for fire-fighting or other service water | For fully automatic water supply and pressure boosting in residential and office buildings and in industrial systems → For pumping drinking water and process water, cooling water, water for fire-fighting or other service water |
| Volume flow Q max. | 360 m ³ /h | 650 m ³ /h | 800 m ³ /h |
| Delivery head H max. | 158 m | 159 m | 160 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection with Helix V: 3~230 V/400 V, 50 Hz with Helix VE and EXCEL: 3~400 V, 50 Hz → Max. fluid temperature 50 °C (70 °C optional) → Operating pressure 16 bar (25 bar optional) → Inlet pressure 10 bar → Nominal connection diameters R 1½" – DN 100 → Protection class IP 54 (SC control device) | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50/60 Hz, depending on type also 1~230 V, 50/60 Hz → Max. fluid temperature 70 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP 54 | <ul style="list-style-type: none"> → Mains connection 3~230 / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP 54 |
| Equipment/function | <ul style="list-style-type: none"> → Automatic pump control via Smart Controller SC. Smart FC version also includes a frequency converter in the switchbox → Components that come in contact with fluid are corrosion-resistant → Shut-off device on the suction and pressure sides of each pump → Non-return valve, on the pressure side → Pressure sensor, pressure side → Pressure gauge, pressure side | <ul style="list-style-type: none"> → Continuous auto control due to pumps with integrated frequency converters → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Pressure sensor, on the discharge side | <ul style="list-style-type: none"> → Continuous auto control of the base-load pump via frequency converter integrated in the CC controller → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Pressure sensor, on the discharge side |
| Special features | <ul style="list-style-type: none"> → High-efficiency pump hydraulics → IE2 standard motors (IE3 motors from 7.5 kW and higher, option for lower motor output), Helix VE with IE4, Helix EXCEL with high-efficiency EC motor (efficiencies > IE4 acc. to IEC TS 60034-31 Ed.1) → Hydraulics of entire system are pressure-loss optimised → Integrated dry-running detection and low water cut-out switch | <ul style="list-style-type: none"> → Compact system due to high-pressure, multistage centrifugal pumps with integrated frequency converters → Integrated full motor protection via PTC → Integrated dry-running detection and low water cut-out switch For systems with MWISE pumps → Up to 20 dB(A) quieter than comparable systems | <ul style="list-style-type: none"> → Compact system in accordance of DIN 1988 (EN 806) → Series with Helix VE integrated frequency converter <p>For systems with MVIS pumps</p> <ul style="list-style-type: none"> → Up to 20 dB(A) quieter than comparable systems |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



| Product range | Multi-pump pressure boosting systems | Modular pressure boosting system according to EN1717, EN 806, DIN 1988-500 | Fire-fighting systems for wall hydrant installations according to DIN 14462 |
|----------------------|--|--|--|
| Series | Wilo-Economy CO 2-4 MHI ... /ER Wilo-Comfort-N-CO 2-6 MVIS ... /CC Wilo-Comfort-CO 2-6 MVI ... /CC Wilo-Comfort-CO 2-6 Helix V ... /CC | Wilo-GEP Drink | Wilo-FLA |
| Field of application | Water distribution/boosting | Water distribution/boosting | Fire fighting |
| Duty chart | | | |
| Design | Pressure boosting system with 2 to 4 respectively 2 to 6 non self-priming, stainless steel, high-pressure, multi-stage centrifugal pumps switched in parallel | Pressure boosting system for drinking water supply applications with 1 to 12 multistage centrifugal pumps with/without break tank, with/without housing | Pressure boosting system for fire extinguishing applications with 1 to 2 autonomously operating, non self-priming, stainless steel, high-pressure, multistage centrifugal pumps |
| Application | For fully automatic water supply and pressure boosting in residential and office buildings and in industrial systems → For pumping drinking water and process water, cooling water, water for fire-fighting or other service water | For drinking water supply taking into account requirements according to the guidelines of the Council of the European Union, regulation for drinking water hygiene and hospital hygiene, EN 1717, EN 806, DIN 1988-500 | For supply of fire extinguishing water from fire hose reels in accordance with DIN 14462 from 04/2009 |
| Volume flow Q max. | 800 m ³ /h | 5 to 1,000 m ³ /h | 100 m ³ /h |
| Delivery head H max. | 160 m | 160 m, up to 450 m on request | 159 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP 54 | <ul style="list-style-type: none"> → Modular compact system → Hygienic safety due to optional free outlet (EN 1717) → Optional stainless steel run-down tank → Automatic function test of all measurement and control devices up to redundancy stage 3 → Small installation surface – 0.64 m² or more | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Max. fluid temperature 50 °C → Max. operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP 54 |
| Equipment/function | <ul style="list-style-type: none"> → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 I, PN 16, on pressure side → Pressure sensor, on the discharge side | <ul style="list-style-type: none"> → Secure drinking water quality due to monitoring of water temperature and stagnation in the stainless steel run-down tank; water is changed out if necessary → Drainage or pump emergency drainage (EN12056) for total volume flow → Installation possible below backflow level → Effective maintenance management and permanent information on the operation via smartphone, tablet or PC | <ul style="list-style-type: none"> → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4301 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 I, PN 16, on pressure side → Pressure switch, on the discharge side |
| Special features | <ul style="list-style-type: none"> → Compact system in accordance of DIN 1988 (EN 806) For systems with MVIS pumps → Up to 20 dB(A) quieter than comparable systems | <ul style="list-style-type: none"> → Isolation of the run-down tank in order to prevent formation of condensate and temperature loading → Split version for installation and transport → Pressure maintaining pump or pilot pump as an option → Complete unit casing → Monitoring of the switchgear and the equipment environment temperature → Automatic energy optimisation | <ul style="list-style-type: none"> → Compact system in accordance of DIN 14462 → Variants <ul style="list-style-type: none"> - Single-pump system - Double-pump system with redundant single-pump systems in a base frame → Comes as standard with pump protection by means of minimum volume discharge via bypass circuit without auxiliary energy |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | Documentation on request | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> |



NEW:
Wilo-SiFire Easy



Product range

Fire fighting systems for wall hydrant installations according to DIN 14462

Fire fighting systems for sprinkler systems according to EN 12845

Certified fire fighting systems for hydrant and sprinkler systems according to EN 1717, EN 12056, DIN 14462 or EN 12845

| | | | |
|----------------------|--|--|---|
| Series | Wilo-FLA Compact | Wilo-SiFire EN Wilo-SiFire Easy | Wilo-GEP Fire |
| Field of application | Fire fighting | Fire fighting | Fire fighting |
| Duty chart | | | |
| Design | Pressure boosting system for fire fighting applications with 1 to 2 autonomously operating, non self-priming, stainless steel, high-pressure, multistage centrifugal pumps with break tank | Pressure boosting system for the supply of fire-fighting water with 1 or 2 pumps on horizontal base frame – EN 733 – with spacer coupling, electro- or diesel motor and a multistage, electrical, vertical jockey pump | Pressure boosting system for fire fighting applications with 1 to 12 multistage centrifugal pumps with/without break tank, with/without housing |
| Application | For supply of fire-fighting water from fire hose reels in accordance with DIN 14462 from 04/2009 | Fully automatic water supply of fire-fighting systems with sprinkler system in accordance with EN 12845 | For the supply of fire-fighting water with exterior hydrants and fire hose reels particularly for high-rise buildings and large properties – without using valves for pressure reduction – as well as for sprinkler and water spray systems |
| Volume flow Q max. | 30 m ³ /h | 750 m ³ /h | certified up to 1000 m ³ /h |
| Delivery head H max. | 142 m | 128 m | 250 m, up to 450 m on request |
| Technical data | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Fluid temperature max. 50 °C → Operating pressure up to 16 bar → Inlet pressure from break tank < 1 bar → Nominal connection diameter R 2"/DN 50 → Protection class of operating device IP 54 → Round break tank (540 l) | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz (1~230 V, 50 Hz panel diesel pump) → Fluid temperature max. +40 °C → Max. operating pressure 10 bar or 16 bar → Max. inlet pressure 6 bar → Nominal connection diameter on pressure side DN 65 to DN 250 → Nominal connection diameter on inlet side DN 50 to DN 200 → Protection class of the switch cabinet IP54 | <ul style="list-style-type: none"> → Certified, modular and compact system – TÜV, DEKRA, DVGW and SVGW → Hygienic safety due to optional free outlet (EN 1717) → Optional stainless steel run-down tank → Automatic function test of all measurement and control devices up to redundancy stage 3 → Small installation surface – from 0.64 m² |
| Equipment/function | <ul style="list-style-type: none"> → Components in contact with the fluid are corrosion-resistant → Pipework made of stainless steel 1.4301 → Ball shut-off valve on pressure side → Gate valve between pump and break tank with free outlet according to EN 13077, type AB according to DIN EN 1717 → Non-return valve, on pressure side → Diaphragm pressure vessel 8L, PN16, arranged on the pressure side → Pressure switch, on pressure side | <ul style="list-style-type: none"> → A circuit with double pressure switch, pressure gauge, non-return valve, valve for the main and standby pump for an automatic start → Pipework in steel; painted with epoxy resin. Distributor with flanges → Shutting gate with safety lock on the pressure side of the pump → Non-return valve on the pressure side of every pump → DN2" connection for the break tank of the pumps → Pressure measuring on pressure side | <ul style="list-style-type: none"> → Drainage or pump emergency drainage (EN12056) for total volume flow → Installation possible below backflow level → No valves for reducing pressure in the main flow of the fire extinguishing system → Effective maintenance management and permanent information on the operation via smartphone, tablet or PC |
| Special features | <ul style="list-style-type: none"> → Compact system with break tank in accordance with DIN 14462 → Variants <ul style="list-style-type: none"> - Single-pump system - Double-pump system with two redundant single-pump systems on a base frame → Comes as standard with pump protection by means of minimum volume discharge via bypass circuit without auxiliary energy | <ul style="list-style-type: none"> → Compact system (just one base frame) in accordance with EN 12845 → Jockey pump for maintaining the required pressure in the system; with automatic start/stop function → Sized diaphragm at the pump outlet for a minimum bypass line so that the pump is protected at a low volume flow → The cables are hidden in the construction and are thus protected from shocks or cuts | <ul style="list-style-type: none"> → Room air cooling → Split version for installation/transport → Pressure maintaining pump or pilot pump as an option → Combination with industrial water system → Real pressure method and VR controller for high-rise buildings and large properties → Monitoring of the switchgear and the equipment environment temperature → Complete unit casing |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Documentation on request</p> |



| Product range | Submersible pumps | Submersible pumps | Submersible pump system |
|----------------------|--|--|---|
| Series | Wilo-Sub TWU 3 Wilo-Sub TWU 3-...-HS | Wilo-Sub TWU 4 ... Wilo-Sub TWU 4 ...-QC Wilo-Sub TWU 4 ...-GT | Wilo-Sub TWU 3 ... Plug & Pump Wilo-Sub TWU 4 ... Plug & Pump |
| Field of application | Rainwater utilisation, raw water intake | Rainwater utilisation, raw water intake | Rainwater utilisation, raw water intake |
| Duty chart | | | |
| Design | Submersible pump, multistage | Submersible pump, multistage | Water-supply unit with submersible pump, control and complete accessories |
| Application | Water supply from boreholes, wells and rainwater storage tanks; domestic water supply, sprinkling and irrigation; pumping of water without long-fibre or abrasive components | Water supply from boreholes, wells and rainwater storage tanks; sprinkling, irrigation and pressure boosting; lowering the ground water level; pumping of water without long-fibre or abrasive components; geothermal applications | Water supply system for water supply from boreholes, wells and rainwater storage tanks; domestic water supply, sprinkling and irrigation; pumping of water without long-fibre or abrasive components |
| Volume flow Q max. | 6.5 m³/h | 22 m³/h | 6 m³/h |
| Delivery head H max. | 130 m | 322 m | 88 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Fluid temperature: 3-35 °C → Minimum flow rate at motor: 0.08 m/s → Max. sand content: 50 g/m³ → Max. number of starts: 30/h → Max. immersion depth: 150 m → Pressure connection: Rp 1 | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Fluid temperature: 3-30 °C → Minimum flow rate at motor: 0.08 m/s → Max. sand content: 50 g/m³ → Up to 20 starts per hour → Max. immersion depth: 200 m → Minimum efficiency index MEI: up to ≥ 0.7 | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Fluid temperature: 3-30 °C → Minimum flow rate at motor: 0.08 m/s → Max. sand content: 50 g/m³ → Up to 20 starts per hour → Max. immersion depth: <ul style="list-style-type: none"> - TWU 3- ... : 150 m - TWU 4- ... : 200 m → Minimum efficiency index MEI: ≥ 0.7 (for the series TWU 4) |
| Equipment/function | <ul style="list-style-type: none"> → Multistage submersible pump with radial impellers → Integrated non-return valve → NEMA coupling → Single-phase or three-phase AC motor → Thermal motor protection for single-phase motor → HS variant including external or internal frequency converter | <ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Single-phase or three-phase AC motor → Integrated thermal motor protection for single-phase motor → Hermetically sealed motors | <ul style="list-style-type: none"> → Multistage submersible pump with radial impellers → Integrated non-return valve → NEMA coupling → Single-phase AC motor → Integrated thermal motor protection → Dry-running protection (only for TWU 4- ... -P&P with Wilo-Sub-I package) |
| Special features | <ul style="list-style-type: none"> → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Supply security with constant pressure thanks to extended pump performance due to a higher speed of up to 8,400 rpm (TWU 3/HS) → Frequency converter with integrated and menu-guided control (TWU 3/HS) | <ul style="list-style-type: none"> → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Low wear due to floating impellers → Maintenance-friendly motor | <ul style="list-style-type: none"> → Easy installation thanks to pre-mounted and pre-wired components → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve |
| Information | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply</p> |



Series modification



Series extension

| Product range | Submersible pumps | Sprinkler pumps with VdS approval | Submersible pumps |
|----------------------|--|---|---|
| Series | Wilo-Sub TWI 4/6/8/10 ... | Wilo-EMU sprinkler pumps | Wilo-EMU 6" series Wilo-EMU 8" series Wilo-EMU 10"...24" series Wilo-Zetos K 8 |
| Field of application | Rainwater utilisation, water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture | Fire fighting | Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture |
| Duty chart | | | |
| Design | Submersible pump, multistage | Submersible pump with sectional construction | Submersible pump with sectional construction |
| Application | Water supply (including drinking water supply) from boreholes and rainwater storage tanks; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; pumping of water without long-fibre or abrasive components | Supplying sprinkler systems | Supply of potable and other water from boreholes and rainwater storage tanks; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; utilisation of geothermal energy and in offshore applications |
| Volume flow Q max. | 165 m ³ /h | 580 m ³ /h | 2,400 m ³ /h |
| Delivery head H max. | 500 m | 140 m | 560 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz (only TWI 4 ...) or 3~400 V, 50 Hz → Immersed operating mode: S1 → Fluid temperature: 3–20 °C or 3–30 °C → Min. flow rate at motor: 0.08–0.5 m/s → Max. sand content: 50 g/m³ → Up to 10 or 20 starts per hour → Max. immersion depth: 100–350 m → Minimum efficiency index MEI: up to ≥ 0.7 (for the series TWI 4 and TWI 6) | <ul style="list-style-type: none"> → Mains connection: 3~400 V/50 Hz → Max. fluid temperature: 25 °C; higher temperatures on request → Minimum flow rate at motor: 0.1 m/s → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: <ul style="list-style-type: none"> - NU 611 = 100 m - Other motors = 300 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 ... 30 °C → Minimum flow rate at motor: 0.1 ... 0.5 m/s → Max. sand content: 35 g/m³ (Zetos K 8: 150 g/m³) → Up to 10 starts per hour → Max. immersion depth: 100 or 300/350 m → Minimum efficiency index MEI: up to ≥ 0.7 (for the series NK 6...) |
| Equipment/function | <ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Single-phase or three-phase AC motor | <ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → NEMA coupling (depending on type) → Three-phase motor for direct or star-delta start → Rewindable motors | <ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Integrated non-return valve (depending on type) → NEMA coupling or standardised connection → Three-phase motor for direct or star-delta start |
| Special features | <ul style="list-style-type: none"> → Corrosion-resistant thanks to stainless steel version → Flexible installation thanks to vertical and horizontal installation → Easy installation due to integrated non-return valve → Large performance range → ACS approval for TWI 4 for drinking water application | <ul style="list-style-type: none"> → VdS certification → Sturdy version in cast iron or bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing for minimising noise and vibrations → VdS certified non-return valve is available as an accessory | <ul style="list-style-type: none"> → Pressure shroud in corrosion-resistant and hygienic stainless steel version → Hydraulic in stainless steel precision casting (Zetos K 8) → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency → Optional with ACS approval for drinking water application |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply/Water Management catalogue: Water supply – Raw water intake</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Water supply – Raw water intake</p> |



| Product range | Submersible pumps | Vertical turbine pumps | Standard glanded pumps |
|----------------------|---|--|---|
| Series | Wilo-EMU polder pumps | Series VMF, CNE, VAF | Wilo-CronoNorm-NL |
| Field of application | Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process | Water distribution/boosting, industrial process | Heating, air-conditioning, cooling, water supply, industrial process |
| Duty chart | | no illustration | |
| Design | Polder pump | Vertical turbine pumps for dry well installation with submerged axial or semi-axial hydraulics | Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate |
| Application | Potable and process water from tanks or shallow bodies of water; municipal and industrial water supply; sprinkling and irrigation; lowering the ground water level; utilisation of geothermal energy and in offshore applications | For industrial or municipal water supply and → Irrigation → Fire fighting → Cooling water supply → Dewatering and flood control | → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. |
| Volume flow Q max. | 1,200 m ³ /h | 40,000 m ³ /h | 650 m ³ /h |
| Delivery head H max. | 160 m | 450 m | 150 m |
| Technical data | → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 °C → Minimum flow across outside shroud: not necessary → Max. sand content: 35 g/m ³ → Up to 10 starts per hour → Max. immersion depth: 300 m | → Permitted temperature range up to 80 °C, or up to 105 °C on request → Nominal diameter on pressure side DN 100 to DN 2000 | → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter on suction side DN 50 to DN 500 → Nominal diameter on pressure side DN 32 to DN 500 → Max. operating pressure: varies according to type and application – up to 16 bar |
| Equipment/function | → Multistage submersible pump → Semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Three-phase motor for direct or star-delta start → Motors rewindable as standard | For types of installation with pressure port, for concealed floor, floor-mounted or twin-ceiling installation → Design: <ul style="list-style-type: none"> - As removable or permanent installation - With axial or semi-axial, single or multistage hydraulics - With open shaft for bearing lubrication with the fluid, or with shaft trim for separate bearing lubrication → Drive options: Electric motor, diesel motor or steam turbine | → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Shaft coupling with spacer coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW |
| Special features | → Deep water lowering thanks to self-cooling motors → Sturdy version in cast iron or bronze → Compact construction → Maintenance-friendly, rewindable motors → Optionally with Ceram CT coating for increasing the efficiency | → Minimum surface area needed → High hydraulic efficiency → Submerged pump hydraulics → Design to order as per customer specifications | → Reduced life-cycle costs through optimised efficiency levels → Bidirectional, force-flushed mechanical seal → Low NPSH values, best cavitation properties → Shaft coupling with or without spacer coupling |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake | Documentation on request | Online catalogue: productfinder.wilo.com |



| Product range | Standard glanded pumps | Axially split case pumps | Self-priming drainage pumps |
|----------------------|--|--|--|
| Series | Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG | Wilo-SCP | Wilo-Drain LP Wilo-Drain LPC |
| Field of application | Heating, air-conditioning, cooling, water supply, industrial process | Cooling, air-conditioning, water distribution/boosting, industrial process | Water distribution/boosting, professional irrigation/agriculture, dewatering/flood control |
| Duty chart | | | |
| Design | Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate | Low-pressure centrifugal pump with axially split housing mounted on a baseplate | Self-priming drainage pumps for dry well installation |
| Application | <ul style="list-style-type: none"> → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | <ul style="list-style-type: none"> → Pumping heating water in accordance with VDI 2035, water-glycol mixtures, cooling/cold water and process water → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | <ul style="list-style-type: none"> → For pumping wastewater with small amounts of solid matter for → Excavation pits and ponds → Sprinkling/spraying of gardens and green areas → Drainage of seepage water → Mobile drainage |
| Volume flow Q max. | 2,800 m ³ /h | 3,400 m ³ /h | 60 m ³ /h |
| Delivery head H max. | 140 m | 245 m | 29 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C (depending on type) → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameters: DN 150 to DN 500 (depending on type) → Max. operating pressure: varies according to type and application – up to 16 bar | <ul style="list-style-type: none"> → Fluid temperature -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameters – Suction side: DN 65 to DN 500 → Pressure side: DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Fluid temperature 3 °C to 35 °C → Free ball passage 5 to 12 mm, depending on type → Connection Rp 1½ to G3 |
| Equipment/function | <ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings (NLG only) in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Greased grooved ball bearings for bearing of pump shaft → Motors with efficiency class IE3 | <ul style="list-style-type: none"> → 1- or 2-stage, low-pressure centrifugal pump in monobloc design → Deliverable as complete unit or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors Materials: → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13 | <ul style="list-style-type: none"> → Portable self-priming centrifugal pump |
| Special features | <p>NLG:</p> <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency → Mechanical seal independent of the direction of rotation → Interchangeable casing wear ring → Permanently lubricated, generously dimensioned roller bearings <p>NPG:</p> <ul style="list-style-type: none"> → Suitable for temperatures up to 140 °C → Back-pull-out version → Extension of the DIN EN 733 product range | <ul style="list-style-type: none"> → Higher capacities up to 17,000 m³/h on request → Special motors and other materials on request | <ul style="list-style-type: none"> → Long service life → Sturdy construction → Easy operation → Flexible use |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock) |



| Product range | Pedestal pumps | Submersible sewage pumps |
|----------------------|---|--|
| Series | Wilo-Drain VC | Wilo-EMU KPR ... |
| Field of application | Professional irrigation/agriculture, special applications, dewatering/flood control, industrial process | Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering/flood control |
| Duty chart | | |
| Design | Vertical drainage pumps | Axial submersible pump with dry motor for use in pipe chambers |
| Application | Pumping of wastewater and condensate up to 95 °C from pump sumps and from cellars at risk of flooding | Pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge |
| Volume flow Q max. | 14 m ³ /h | 9,500 m ³ /h |
| Delivery head H max. | 20 m | 8.4 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Protection class IP 54 → Fluid temperature +5 °C to +95 °C → Free ball passage 5 or 7 mm, depending on type → Pressure port Rp 1 or Rp 1½ depending on type | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 85 to 130 mm → Short common pump/motor shaft → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | → Attached float switch | → Heavy-duty version made of cast iron |
| Special features | <ul style="list-style-type: none"> → For fluids up to 95 °C → Long service life → Easy operation with attached float switch → Long standstill times possible → Integrated motor protection with thermal relay | <ul style="list-style-type: none"> → Installation directly in the pressure pipe → Angle of propeller blades adjustable → Process security thanks to extensive monitoring devices → Low vibrations and long standstill times thanks to high-quality components |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p> |

Special applications

Many applications make it necessary to move and transport water. With their high operational reliability and efficiency, Wilo products meet your needs even in non-standard applications.



Wilo-Sevio ACT,
the process optimiser

Biological treatment with activated sludge tank

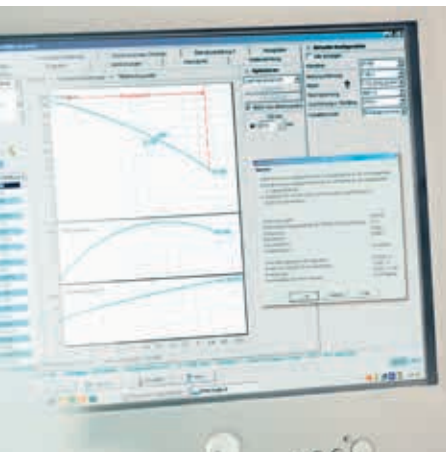
Gets things moving in the cleaning process.

Special applications need special solutions. That is why we offer you products that you can adapt easily and precisely to suit the special conditions of your location, such as our innovative Wilo-Sevio ACT.

The Wilo-Sevio ACT system is used primarily in wastewater treatment plants for biological treatment with an activated sludge tank. Firstly, classic sludge activation needs a lot of space, and sedimentation in the secondary clarifier often constitutes a challenge.

Another problem is the uniform distribution of the organic load in the activated sludge tank and fixed-bed reactors. The innovative process with biomass carriers can play out its strengths here, because it uses the advantages of both classic sludge activation and the well-known biofilm process. Wilo-Sevio ACT. This innovative system sucks in biomass carriers and gently feeds them into the biological process again below the water surface. This leads to uniform mixing and improves cleaning performance.

We would be happy to help you to design your project and select the right pump technology. Simply ask us today.



Always professional and quick to respond

Supporting all the phases of your projects is of paramount importance to us, from design through to maintenance concepts.

- accompanied by competent experts
- working out exactly the right solution together with you
- supported by a comprehensive software package
- comprises the choice of pump and machine technology in the municipal wastewater treatment



Wastewater treatment plant
Steenwijk, Netherlands

The task: Guaranteed circulation velocity at lowest energy consumption for wastewater treatment plant for a total of 73.000 PE.

The solution: Energy-efficient selection and factory-provided tests enabled a reliable system solution for the complete treatment process.



Series extension



Series modification



| Product range | Submersible pumps | Submersible drainage pumps | Pedestal pumps |
|----------------------|---|---|--|
| Series | Wilo-EMU 8" series Wilo-EMU 10"...24" series Wilo-Zetos K 8 | Wilo-Drain TMT | Wilo-Drain VC |
| Field of application | Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture | Special applications, dewatering/flood control, industrial process | Professional irrigation/agriculture, special applications, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Submersible pump with sectional construction | Submersible drainage pumps | Vertical drainage pumps |
| Application | Supply of potable and other water from boreholes and rainwater storage tanks; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; utilisation of geothermal energy and in offshore applications | Pumping of condensate, hot water and aggressive media in industrial applications | Pumping of wastewater and condensate up to 95 °C from pump sumps and from cellars at risk of flooding |
| Volume flow Q max. | 2,400 m ³ /h | 22 m ³ /h | 14 m ³ /h |
| Delivery head H max. | 560 m | 15,5 m | 20 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 ... 30 °C → Minimum flow rate at motor: 0.1 ... 0.5 m/s → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: 100 or 300/350 m | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class IP 68 → Max. immersion depth 7 m → Fluid temperature max. 95 °C → Cable length 10 m → Free ball passage 9 mm → Pressure port G 1¼ | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Protection class IP 54 → Fluid temperature +5 °C to +95 °C → Free ball passage 5 or 7 mm, depending on type → Pressure port Rp 1¼ or Rp 1½ depending on type |
| Equipment/function | <ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Integrated non-return valve (depending on type) → NEMA coupling or standardised connection → Three-phase motor for direct or star-delta start | <ul style="list-style-type: none"> → Housing and impeller made of grey cast iron → Winding temperature monitoring with bimetal sensor | <ul style="list-style-type: none"> → Attached float switch |
| Special features | <ul style="list-style-type: none"> → Pressure shroud in corrosion-resistant and hygienic stainless steel version → Hydraulic in stainless steel precision casting (Zetos K 8) → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency → Optional with ACS approval for drinking water application | <ul style="list-style-type: none"> → For fluids up to 95 °C → Sealed cable inlet | <ul style="list-style-type: none"> → For fluids up to 95 °C → Long service life → Easy operation thanks to attached float switch → Long standstill times possible → Integrated motor protection with thermal relay |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Water supply – Raw water intake</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> |



Series extension



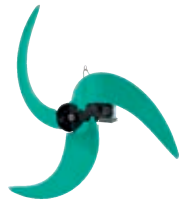
| Product range | Submersible sewage pumps | Submersible sewage pump | Submersible sewage pumps |
|----------------------|---|---|---|
| Series | Wilo-Drain TP 80 Wilo-Drain TP 100 | Wilo-Rexa PRO | Wilo-EMU FA 08 ... to FA 60 ... |
| Field of application | Special applications, wastewater collection and transport, dewatering/flood control, industrial process | Special applications, wastewater collection and transport, wastewater treatment, dewatering/flood control | Special applications, wastewater collection and transport, wastewater treatment, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Submersible sewage pump for industrial applications | Submersible sewage pump | Submersible sewage pump with dry motors or self-cooling motors |
| Application | Pumping heavily contaminated fluids, for environmental and water treatment technology and industrial and process engineering | Pumping of drainage water and sewage, sewage containing faeces, and sludge up to max. 8% dry matter from chambers and tanks, and also for house and site drainage | Pumping sewage with solid content in wastewater treatment plants and pumping stations, local dewatering, water control and process water extraction; construction applications and industrial applications |
| Volume flow Q max. | 180 m ³ /h | 186 m ³ /h | 7,950 m ³ /h |
| Delivery head H max. | 22 m | 32 m | 87 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Protection class: IP 68 → Insulation class: F → Thermal winding monitoring → Sealing chamber control → Max. fluid temperature: 40 °C → Free ball passage: 80 or 100 mm → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2-30 min, S3 25 % → Protection class: IP 68 → Insulation class: F → Fluid temperature: 3~40 °C, max. 60 °C for 3 min → Free passage: 45...100 mm → Max. immersion depth: 20 m → Cable length: 10 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode with self-cooling motor: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 45 to 170 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Thermal motor monitoring → Sealing chamber monitoring → ATEX approval → Sheath current cooling | <ul style="list-style-type: none"> → Winding temperature monitoring with bimetal sensor → Leakage detection for the motor compartment | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Self-cooling motors with 1- or 2-chamber system → Simple installation via suspension unit or pump base |
| Special features | <ul style="list-style-type: none"> → Self-cooling motor for the use in wet well or dry well installations → Corrosion-resistant stainless steel motor housing made of 1.4404 → Patented non-clogging hydraulics → Longitudinal watertight cable inlet → Low weight | <ul style="list-style-type: none"> → Sturdy version in cast iron → Oil separation chamber with optional external monitoring → Longitudinal watertight cable inlet → Also available with IE3 motor technology | <ul style="list-style-type: none"> → Self-cooling motors for the use in wet well and dry well installations → Process security thanks to extensive monitoring devices → Special versions for abrasive and corrosive fluids → Low vibrations and long standstill times thanks to high-quality components |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p> |



| Product range | Submersible sewage pumps | Submersible sewage pumps | Recirculation pumps |
|----------------------|--|--|--|
| Series | Wilo-EMU FA...RF | Wilo-EMU KPR ... | Wilo-EMU RZP 20 to RZP 80-2 |
| Field of application | Special applications, wastewater collection and transport, industrial process | Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering/flood control | Special applications, wastewater treatment |
| Duty chart | | | |
| Design | Submersible sewage pumps made of cast stainless steel | Axial submersible pump with dry motor for use in pipe chambers | Submersible mixers with housing unit, directly driven or with single-stage planetary gear |
| Application | Pumping sewage with solid content in water treatment systems and industrial applications | Pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge | Pumping wastewater and sewage with low delivery heads and large volume flows, e.g. between equalising, nitrification and denitrification tanks; pumping process, raw, clean and cooling water e.g. in paint finishing systems or for clean water treatment; flow generation in water channels, e.g. amusement parks |
| Volume flow Q max. | 70 m ³ /h | 9,500 m ³ /h | 6,800 m ³ /h |
| Delivery head H max. | 30 m | 8.4 m | 1.1 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 35 to 45 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 85 to 130 mm → Short common pump/motor shaft → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Units directly driven or with single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Heavy-duty version made of cast stainless steel (1.4581) → Simple installation via suspension unit or pump base | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron | <ul style="list-style-type: none"> → Stationary installation directly on the flow pipe → Flexible installation via lowering device → Vertical or in-line installation possible |
| Special features | <ul style="list-style-type: none"> → Sturdy version completely in stainless steel casting 1.4581 for the use in corrosive fluids → Process security thanks to extensive monitoring devices → Longitudinal watertight cable inlet → Low vibrations and long standstill times thanks to high-quality components | <ul style="list-style-type: none"> → Installation directly in the pressure pipe → Angle of propeller blades adjustable → Process security thanks to extensive monitoring devices → Low vibrations and long standstill times thanks to high-quality components | <ul style="list-style-type: none"> → Vertical or in-line installation possible → Self-cleaning propeller to avoid clogging → Propeller in steel or PUR |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production) – Wastewater treatment</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p> |

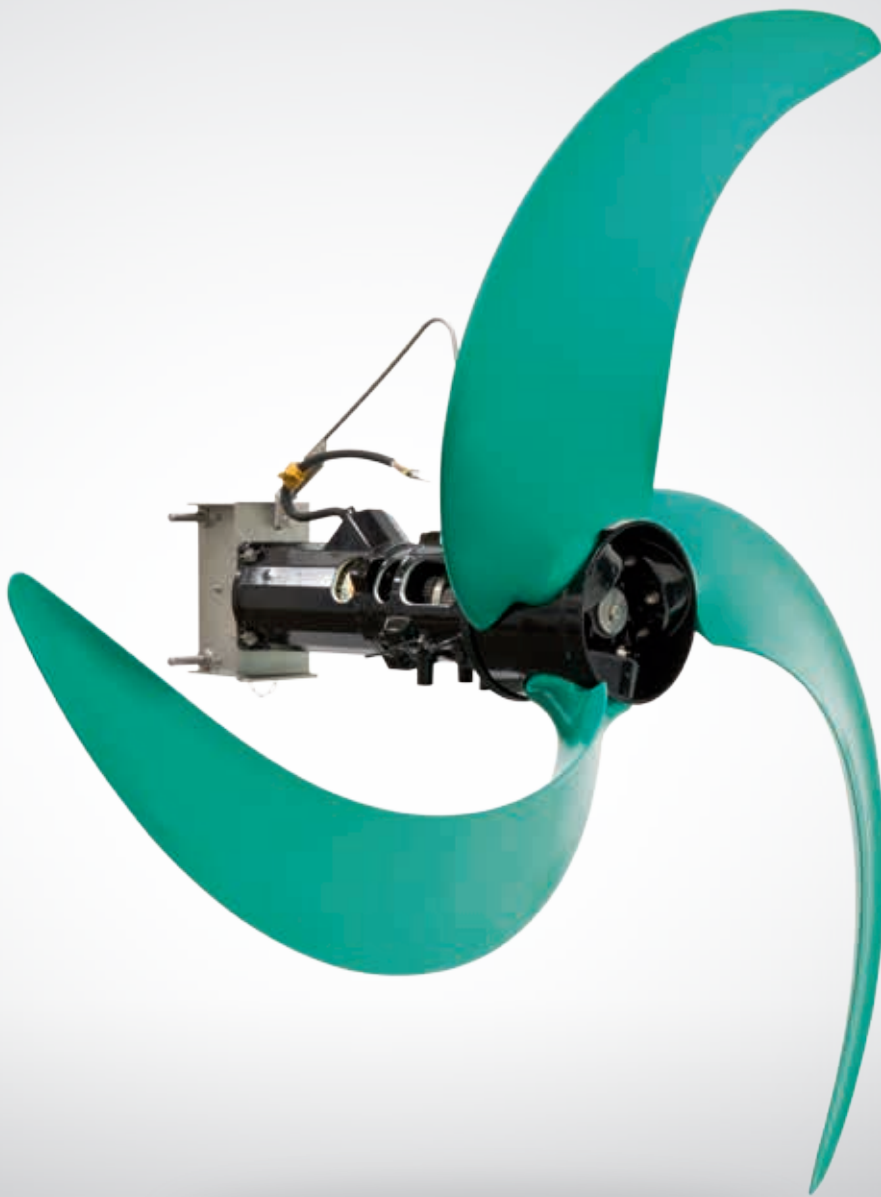


| Product range | Submersible mixer | Submersible mixer | Submersible mixer |
|----------------------|---|---|--|
| Series | Wilo-EMU TR 14 to TR 28 | Wilo-EMU TR 22 to TR 40 | Wilo-EMU TR 50-2 to TR 120-1 Wilo-EMU TRE 90-2 with IE3 motor |
| Field of application | Special applications, wastewater treatment | Special applications, wastewater treatment | Special applications, wastewater treatment |
| Duty chart | no illustration | no illustration | no illustration |
| Design | Compact, directly driven submersible mixer | Directly driven submersible mixer | Submersible mixer with single-stage planetary gear |
| Application | Turbulation of deposits and solids in stormwater retention tank and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply | Turbulation of deposits and solids in stormwater retention tank and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply | Use in activated sludge tanks and sludge tanks for flow generation, suspension of solids, homogenisation and prevention of floating sludge layers; further applications in industry, agriculture and water supply |
| Volume flow Q max. | Thrust: 45 – 330 N | Thrust: 185 – 1100 N | Thrust: 160 – 6620 N |
| Delivery head H max. | | | |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Stationary installation on wall and floor → Flexible installation through the use of lowering device or special pipe attachment → Can be swivelled vertically and horizontally when installed with a lowering device | <ul style="list-style-type: none"> → Stationary installation on wall and floor → Flexible installation via lowering device → Can be swivelled vertically and horizontally when installed with a lowering device | <ul style="list-style-type: none"> → Stationary installation on walls → Flexible installation via lowering device → Can be swivelled horizontally when installed with a lowering device → Installation with stand allows free placement in basin → Single-stage planetary gear |
| Special features | <ul style="list-style-type: none"> → Low power consumption → Low weight → Self-cleaning propeller with Helix hub to avoid clogging → Propeller in steel or PUR | <ul style="list-style-type: none"> → Self-cleaning propeller with Helix hub to avoid clogging → Propeller in cast iron, steel or PUR | <ul style="list-style-type: none"> → Planetary gear allows transmission of high torques to the propeller with an aerodynamic construction → Exchangeable planetary stage for adaptation of the propeller speed → Self-cleaning propeller with backward-bent blades to avoid clogging → Also with IE3 motor technology (on the basis of IEC 60034-30) → Propeller in steel, PUR or PUR/GFK |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment |



| Product range | Submersible mixer | Submersible mixer |
|----------------------|---|--|
| Series | Wilo-EMU TR 212 to TR 326 Wilo-EMU TRE with IE3 motor | Wilo-Sevio MIX DM 50-2 |
| Field of application | Special applications, wastewater treatment | Special applications, industrial process |
| Duty chart | no illustration | no illustration |
| Design | Slow-running submersible mixer with two-stage planetary gear reduction | Submersible mixer with single-stage planetary gear |
| Application | Energetically optimised mixing and circulation of activated sludge; generation of flow rates in circulation channels; other applications in industry | Pumping of drilling mud on on-shore and off-shore installations |
| Volume flow Q max. | Thrust: 390 – 4250 N | Thrust: 1010 N |
| Delivery head H max. | | |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Two-stage planetary gear with exchangeable second planetary gear speed → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 90 °C → Single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Installation with stand allows free placement in basin → Flexible installation → Two-stage planetary gear with exchangeable second planetary gear speed | <ul style="list-style-type: none"> → Flexible installation via lowering device → Can be swivelled horizontally when installed with a lowering device → Single-stage planetary gear |
| Special features | <ul style="list-style-type: none"> → Planetary gear allows transmission of high torques to the propeller with aerodynamic construction → Exchangeable planetary stage for adaptation of the propeller speed → Self-cleaning propeller with backward-bent blades to avoid clogging → Also with IE3 motor technology (on the basis of IEC 60034-30) | <ul style="list-style-type: none"> → Sturdy construction for fluid temperatures of up to 90 °C → Exchangeable planetary stage for adaptation of the propeller speed → Stainless steel propeller with high wear resistance → Ex approval as standard |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Documentation on request |

Wilo-EMU TRE, the enduring one



**“With Wilo pumps,
you no longer have any
need to worry about
wastewater.”**



Drainage and sewage

Pumps and systems for wastewater collection and transport, wastewater treatment, dewatering and flood control.



Wilo-Rexa PRO,
the reliable one

Wilo systems

wastewater collection, transport and treatment.

Wastewater and sewage must be disposed of reliably in order to ensure compliance with quality, hygiene and environmental standards and to prevent obnoxious odours. Anywhere where there is no gradient allowing it to flow easily into the sewer system, our pumps and lifting units offer you an all-round, clean and efficient solution.

We have worked closely with our customers for decades to continuously optimise our

powerful and highly economical systems. It shows in many little details. For instance, our pumps master even big challenges such as the rising solid content in sewage without problems, and demonstrate resource-efficient performance and top quality for the long term.

Making one thing very clear: you no longer have any need to worry about wastewater and sewage from now on.

Wastewater collection and transport Usedom, Germany.

The task: 40% higher load
in the peak season.

The solution: Wilo supplied reliable submersible sewage pumps of the type Wilo-EMU FA 50 with a special CERAM coating.





Wastewater collection and transport
Prague, Czech Republic.

The task: To relieve the river Elbe from harmful sewage a new wastewater treatment plant was built. All incoming sewage is collected in a tunnel in a depth of approx. 28 m transporting the sewage into the treatment plant.

The solution: In this pumping station 9 Wilo submersible sewage pumps were installed overcoming a height difference of 30 m.





Series modification



| Product range | Self-priming drainage pumps | Submersible drainage pumps | Pedestal pumps |
|----------------------|---|---|---|
| Series | Wilo-Drain LP Wilo-Drain LPC | Wilo-Drain TMT | Wilo-Drain VC |
| Field of application | Water distribution/boosting, professional irrigation/agriculture, dewatering/flood control | Special applications, dewatering/flood control, industrial process | Professional irrigation/agriculture, special applications, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Self-priming drainage pumps for dry well installation | Submersible drainage pumps | Vertical drainage pumps |
| Application | For pumping wastewater with small amounts of solid matter for → Excavation pits and ponds → Sprinkling/spraying of gardens and green areas → Drainage of seepage water → Mobile drainage | Pumping of condensate, hot water and aggressive media in industrial applications | Pumping of wastewater and condensate up to 95 °C from pump sumps and from cellars at risk of flooding |
| Volume flow Q max. | 60 m ³ /h | 22 m ³ /h | 14 m ³ /h |
| Delivery head H max. | 29 m | 15,5 m | 20 m |
| Technical data | → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Fluid temperature 3 °C to 35 °C → Free ball passage 5 to 12 mm, depending on type → Connection Rp 1½ to G3 | → Mains connection 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class IP 68 → Max. immersion depth 7 m → Fluid temperature max. 95 °C → Cable length 10 m → Free ball passage 9 mm → Pressure port G 1¼ | → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Protection class IP 54 → Fluid temperature +5 °C to +95 °C → Free ball passage 5 or 7 mm, depending on type → Pressure port Rp 1¼ or Rp 1½ depending on type |
| Equipment/function | → Portable self-priming centrifugal pump | → Housing and impeller made of grey cast iron → Winding temperature monitoring with bimetal sensor | → Attached float switch |
| Special features | → Long service life → Sturdy construction → Easy operation → Flexible use | → For fluids up to 95 °C → Sealed cable inlet | → For fluids up to 95 °C → Long service life → Easy operation thanks to attached float switch → Long standstill times possible → Integrated motor protection with thermal relay |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock) | Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering | Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering |



| Product range | Submersible drainage pumps | Submersible drainage pumps | Submersible drainage pumps |
|----------------------|---|--|---|
| Series | Wilo-Drain TM/TMW/TMR 32 Wilo-Drain TS/TSW 32 | Wilo-Drain TS 40 Wilo-Drain TS 50 Wilo-Drain TS 65 | Wilo-EMU KS |
| Field of application | Wastewater collection and transport, dewatering/flood control | Wastewater collection and transport, dewatering/flood control, industrial process | Dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Basement drainage pump | Submersible drainage pumps | Submersible drainage pumps in rugged design for use on building sites |
| Application | For pumping clear or slightly muddy water from tanks, sumps or pits. For help with overflows and flooding and for draining basement stairways and basement areas from domestic wastewater and for pumping water from small fountains, waterworks or streams | For pumping wastewater in house/site drainage, in environmental and water treatment technology and industrial and process engineering | For dewatering of excavation pits, cellar areas, chambers and basins. Ideally suited for use in fountains |
| Volume flow Q max. | 16 m ³ /h | 53 m ³ /h | 165 m ³ /h |
| Delivery head H max. | 12 m | 25 m | 62 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Protection class IP 68 → Max. immersion depth TM/TMW/TMR = 1 m, TS/TSW = 7 m → Fluid temperature 3 °C to 35 °C, for short periods up to 3 min. max. 90 °C → Cable length 4 to 10 m, depending on type → Free ball passage 10 mm → Pressure port Rp 1¼, hose connection 35 mm (TM 32/...), 32 mm (R1) for TS/TSW | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class IP 68 → Immersion depth 5 to 7 m → Fluid temperature 3 °C to 35 °C → Free ball passage 10 mm → Pressure port Rp 1½, Rp 2 or Rp 2½ depending on type | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operating mode S1 → Max. fluid temperature 40 °C → Protection class IP 68 → Sealed by double mechanical seal → Maintenance-free roller bearing |
| Equipment/function | <ul style="list-style-type: none"> → Ready-to-plug → Motor monitoring via temperature → Sheath current cooling → Hose connection → Turbulator (TMW, TSW) → Float switch (depending on type) | <ul style="list-style-type: none"> → Ready-to-plug versions also with float switch → Thermal motor monitoring → Explosion protection for TS 50 and TS 65 → Connection cable 10 m → Connection cable detachable → Integrated non-return valve for TS 40 → Hose connection for TS 40 | <ul style="list-style-type: none"> → Bidirectional mechanical seal → Heavy-duty motors (oil-filled and dry) ensure continuous duty even with non-immersed motor → Corrosion-resistant components |
| Special features | <ul style="list-style-type: none"> → TMW, TSW with turbulator for constantly clean pump chamber → No generation of fluid-related odours → Easy installation → High operational reliability → Easy operation | <ul style="list-style-type: none"> → Low weight → Large performance range → Oil separation chamber → Easy operation thanks to attached float switch and plug (A version) | <ul style="list-style-type: none"> → Long service life → Sturdy construction → Slurping operation possible → Suitable for continuous duty (S1) → Ready-to-plug |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p> |



Series modification



| Product range | Submersible sewage pumps with macerator | Submersible sewage pumps | Submersible sewage pumps |
|----------------------|---|---|---|
| Series | Wilo-Rexa CUT Wilo-Drain MTS Wilo-Drain MTC | Wilo-Drain TC 40 | Wilo-Drain STS 40 |
| Field of application | Wastewater collection and transport | Wastewater collection and transport, dewatering/flood control | Wastewater collection and transport, dewatering/flood control |
| Duty chart | | | |
| Design | Submersible sewage pumps with macerator | Submersible sewage pump | Submersible sewage pumps |
| Application | Pumping sewage containing faeces and municipal and industrial sewage, including fibrous matter, for pressure drainage, house and site drainage, sewage and water management and environmental and water treatment technology | Pumping heavily contaminated fluids for house/site drainage, sewage disposal (pumping of sewage free of faeces in acc. with DIN EN 12050-2) and environmental and water treatment technology | Pumping heavily contaminated fluids for house/site drainage, sewage disposal (pumping of sewage free of faeces in acc. with DIN EN 12050-2), water management, and environmental, water treatment, industrial and process engineering applications |
| Volume flow Q max. | 17 m ³ /h | 22 m ³ /h | 20 m ³ /h |
| Delivery head H max. | 55 m | 10 m | 10 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Insulation class: F → Thermal winding monitoring → Max. fluid temperature: 3-40 °C | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class: IP 68 → Insulation class: B → Thermal winding monitoring → Max. fluid temperature: 3-40 °C → Free ball passage: 35 mm → Max. immersion depth: 2 m | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class: IP 68 → Insulation class: B → Thermal winding monitoring → Max. fluid temperature: 3-35 °C → Free ball passage: 40 mm → Max. immersion depth: 5 m |
| Equipment/function | <ul style="list-style-type: none"> → Internal or external macerator → Unimpeded flow to the impeller → Maceration of substances being conveyed → Simple installation via suspension unit or pump base → Oil separation chamber with optional external monitoring | <ul style="list-style-type: none"> → Ready-to-plug → Including float switch → Thermal motor monitoring | <ul style="list-style-type: none"> → AC variant ready-to-plug → A-model including float switch → Thermal motor monitoring |
| Special features | <ul style="list-style-type: none"> → Low-weight version with stainless steel motor → Sturdy version in cast iron → Sealing with two mechanical seals → Longitudinal watertight cable inlet | <ul style="list-style-type: none"> → Heavy-duty hydraulic housing made of cast iron → Easy operation due to the attached float switch → Integrated stainless steel pump base for easy installation → Free ball passage: 40 mm | <ul style="list-style-type: none"> → Connection cable detachable → Stainless steel dry motor → Attached float switch (A-model) enables easy operation → Integrated pump base for easy installation → Free ball passage: 40 mm → No switchgear required for thermal fuse protection → Integrated thermal motor protection (1~/3~) and phase failure protection (3~) |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> |



Series extension

| Product range | Submersible sewage pumps | Submersible sewage pumps | Submersible sewage pumps |
|----------------------|---|---|---|
| Series | Wilo-Drain TP 50 Wilo-Drain TP 65 | Wilo-Drain TP 80 Wilo-Drain TP 100 | Wilo-Rexa FIT Wilo-Rexa PRO |
| Field of application | Wastewater collection and transport, dewatering/flood control | Special applications, wastewater collection and transport, dewatering/flood control, industrial process | Special applications, wastewater collection and transport, wastewater treatment, dewatering/flood control |
| Duty chart | | | |
| Design | Submersible sewage pumps | Submersible sewage pump for industrial applications | Submersible sewage pump |
| Application | Pumping heavily contaminated fluids for house and site drainage, sewage (not within the scope of DIN EN 12050-1) and water management, environmental and water treatment technology and industrial and process engineering | Pumping heavily contaminated fluids, for environmental and water treatment technology and industrial and process engineering | Pumping of drainage water and sewage, sewage containing faeces, and sludge up to max. 8 % dry matter from chambers and tanks, and also for house and site drainage |
| Volume flow Q max. | 60 m ³ /h | 180 m ³ /h | 186 m ³ /h |
| Delivery head H max. | 21 m | 21 m | 32 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2-8 min, S3 25 % → Protection class: IP 68 → Insulation class: F → Thermal winding monitoring → Max. fluid temperature: 35 °C → Free ball passage: 44 mm → Max. immersion depth: 7 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Protection class: IP 68 → Insulation class: F → Thermal winding monitoring → Sealing chamber control → Max. fluid temperature: 40 °C → Free ball passage: 80 or 100 mm → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Non-immersed operating mode: S2-15 min; S3 10 % → Rexa PRO: S2-30 min, S3 25 % → Protection class: IP 68 → Insulation class: F → Fluid temperature: 3-40 °C, max. 60 °C for 3 min → Free passage: 50/65/80 mm → Max. immersion depth: 7 or 20 m → Cable length: 10 m |
| Equipment/function | <ul style="list-style-type: none"> → AC variant with capacitor box → Thermal motor monitoring → ATEX approval (TP 65 3~ without floater) | <ul style="list-style-type: none"> → Thermal motor monitoring → Sealing chamber monitoring → ATEX approval → Sheath current cooling | <ul style="list-style-type: none"> → Winding temperature monitoring with bimetal sensor → Oil separation chamber with optional external monitoring |
| Special features | <ul style="list-style-type: none"> → Stainless steel motor housing made of 1.4301 → Easy operation thanks to attached float switch (A version) → Low weight | <ul style="list-style-type: none"> → Self-cooling motor for the use in wet well and dry well installations → Corrosion-resistant stainless steel motor housing in 1.4404 → Patented non-clogging hydraulics → Longitudinal watertight cable inlet → Low weight | <ul style="list-style-type: none"> → Low-weight version with stainless steel motor or sturdy version in cast iron → Also with IE3 motor technology (on the basis of IEC 60034-30) |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> |



| Product range | Sewage pumps | Submersible sewage pumps | Submersible sewage pumps |
|----------------------|--|--|---|
| Series | Wilo-RexaBloc RE | Wilo-EMU FA 08 ... to FA 15 ... (standard pumps) | Wilo-EMU FA 08 ... to FA 60 ... |
| Field of application | Wastewater collection and transport, wastewater treatment, dewatering/flood control | Wastewater collection and transport, wastewater treatment, dewatering/flood control | Special applications, wastewater collection and transport, wastewater treatment, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Sewage hydraulics with standard motor in monobloc design for stationary dry well installation | Submersible sewage pumps | Submersible sewage pump with dry motors or self-cooling motors |
| Application | Pumping of waste water and sewage containing faecal matter, including long-fibre constituents. | Pumping sewage with solid content in wastewater treatment plants and pumping stations, local dewatering, water control and process water extraction; construction applications and industrial applications | Pumping sewage with solid content in wastewater treatment plants and pumping stations, local dewatering, water control and process water extraction; construction applications and industrial applications |
| Volume flow Q max. | 36 m ³ /h | 380 m ³ /h | 7,950 m ³ /h |
| Delivery head H max. | 18 m | 51 m | 87 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operating mode: S1 → Protection class: IP 55 → Insulation class: F → Fluid temperature: 3...70 °C → Ambient temperature: 3 to 40 °C → Motor efficiency class: IE3 | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2-15 or S2-30 (depending on type) → Thermal motor monitoring → Protection class: IP 68 → Insulation class: F → Max. fluid temperature: 40 °C → Free ball passage of 45 to 100 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode with self-cooling motor: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 45 to 170 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Winding temperature monitoring with bimetal sensor → Optional external sealing chamber monitoring for the sealing chamber | <ul style="list-style-type: none"> → Oil separation chamber with optional external monitoring | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Oil separation chamber with optional external monitoring |
| Special features | <ul style="list-style-type: none"> → High reliability due to oil-filled sealing chamber and additional leakage chamber → Easy impeller replacement due to "back pull-out" design. This means the motor and the impeller can be removed without needing to dismantle the hydraulics → Closed bearing bracket design. This means that no oil needs to be drained during dismantling | <ul style="list-style-type: none"> → Sturdy version in cast iron → Operationally reliable thanks to Vortex and single-channel hydraulics with large free ball passage → Longitudinal watertight cable inlet | <ul style="list-style-type: none"> → Self-cooling motors for the use in wet well and dry well installation → Process security thanks to extensive monitoring devices → Special versions for abrasive and corrosive fluids → Low vibrations and long standstill times thanks to high-quality components → Customised versions are possible |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production)</p> |



| Product range | Submersible sewage pumps | Submersible sewage pumps | Submersible sewage pumps |
|----------------------|--|--|--|
| Series | Wilo-EMU FA...RF | Wilo-EMU FA...WR | Wilo-EMU KPR ... |
| Field of application | Special applications, wastewater collection and transport, industrial process | Wastewater collection and transport, wastewater treatment | Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering/flood control |
| Duty chart | | | |
| Design | Submersible sewage pumps made of cast stainless steel | Submersible sewage pump with mechanical stirring apparatus | Axial submersible pump with dry motor for use in pipe chambers |
| Application | Pumping sewage with solid content in water treatment systems and industrial applications | Pumping sewage and sludge in water treatment applications | Pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge |
| Volume flow Q max. | 70 m ³ /h | 72 m ³ /h | 9,500 m ³ /h |
| Delivery head H max. | 30 m | 27 m | 8.4 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 35 to 45 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode with self-cooling motor: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 23 to 58 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 85 to 130 mm → Short common pump/motor shaft → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Oil separation chamber with optional external monitoring | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Mechanical stirring apparatus is fastened directly to the impeller → Mixer head made of Abrasit (chilled cast iron) | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron |
| Special features | <ul style="list-style-type: none"> → Sturdy version completely in stainless steel casting 1.4581 for the use in corrosive fluids → Process security thanks to extensive monitoring devices → Longitudinal watertight cable inlet → Low vibrations and long standstill times thanks to high-quality components | <ul style="list-style-type: none"> → Mechanical mixing device made of Abrasit material to avoid deposits in the pump chamber → Process security thanks to extensive monitoring devices → Low vibrations and long standstill times thanks to high-quality components → Customised versions are possible | <ul style="list-style-type: none"> → Installation directly in the pressure pipe → Angle of propeller blades adjustable → Process security thanks to extensive monitoring devices → Low vibrations and long standstill times thanks to high-quality components → Customised versions are possible |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production) – Wastewater treatment</p> |



| Product range | Wastewater lifting units | Wastewater lifting units for concealed floor installation | Wastewater lifting units |
|----------------------|--|--|--|
| Series | Wilo-HiDrainlift 3 | Wilo-DrainLift Box | Wilo-HiSewlift 3 |
| Field of application | Waste water collection and transport | Wastewater collection and transport | Waste water collection and transport |
| Duty chart | | | |
| Design | Wastewater lifting units | Wastewater lifting units for concealed floor installation | Small sewage lifting units |
| Application | For automatic drainage of showers, washbasins, washing machines/dishwashers, or for pumping wastewater and drainage water which is free of faeces, fibres, grease and oil | For concealed floor installation, can be used for drainage of → Rooms at risk of flooding → Garage entrances → Cellar stairways → Showers, washbasins, washing machines, dishwashers | For disposal of sewage from a single toilet and up to three sources (washbasin, shower or bidet) which cannot be discharged to the sewer system via the natural fall |
| Volume flow Q max. | 6 m ³ /h | 20 m ³ /h | 5 m ³ /h |
| Delivery head H max. | 8 m | 10 m | 8 m |
| Technical data | → Mains connection: 1~230 V, 50 Hz → Fluid temperature: 35 °C, up to 60/75 °C for short periods (5 min) according to model → Pressure port Ø 32 mm → Inlet connection Ø 40 mm → Protection class IP 44 → Gross tank volume 3.9 l; 16 l; 15.5 l → Switching Volume 0.7 l; 2 l; 2 l | → Mains connection 1~230 V, 50 Hz → Max. fluid temperature 35 °C → Protection class IP 67 → Gross tank volume 85 l → Switching volume: 22 l, for type 40/10: 30 l | → Mains connection: 1~230 V, 50 Hz → Fluid temperature: 35 °C → Pressure port: Ø 32 mm → Inlet connection: Ø 40 mm → Protection class: IP 44 → Gross tank volume: 14.4 l; 17.4 l → Switching Volume: 1 l |
| Equipment/function | → Ready-to-plug (except HiDrainlift 3-24) → Thermal motor protection → Level control with pneumatic pressure transducer → Integrated non-return valves → Active carbon filter | → Ready-to-plug system → Plastic tank with ready-mounted drainage pump, control, pressure pipe and integrated non-return valve → Mains connection cable with shock-proof plug → Motor monitoring via temperature → Level control with float switch | → Ready-to-plug → Thermal motor protection → Level control with pneumatic pressure transducer → Integrated non-return valves → Active carbon filter |
| Special features | → Very compact design for the installation into a wet cell or under a shower tray (HiDrainlift 3-24) → Low-noise operation and integrated active carbon filter for a high user comfort → Reliable performance and low power consumption for an efficient wastewater disposal → Easy installation with flexible connection possibilities → Systems ready for connection (HiDrainlift 3-35 and HiDrainlift 3-37) | → Easy to install due to integrated pump and non-return valve → Large tank volume → Easy maintenance → Pumps with pressure pipe removable → Stainless steel tile frame with trap | → HiSewlift 3-135 in particularly narrow design (< 149 mm width) for an easy front-wall installation → Low-noise operation and integrated active carbon filter for a high user comfort → Reliable performance and low power consumption for an efficient sewage disposal → Easy installation with flexible connection possibilities → Ready for connection |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply |



| Product range | Compact sewage lifting units with 1 integrated pump | Sewage lifting units with 1 or 2 integrated pumps | Sewage lifting unit with 2 integrated pumps |
|----------------------|---|---|---|
| Series | Wilo-DrainLift S | Wilo-DrainLift M Wilo-RexaLift FIT L | Wilo-DrainLift XL |
| Field of application | Wastewater collection and transport | Wastewater collection and transport | Wastewater collection and transport |
| Duty chart | | | |
| Design | Compact sewage lifting units with integrated pump | Sewage lifting units with 1 or 2 integrated pumps | Sewage lifting unit with 2 integrated pumps |
| Application | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall |
| Volume flow Q max. | 35 m ³ /h | 40 m ³ /h | 40 m ³ /h |
| Delivery head H max. | 6 m | 22 m | 22 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Max. fluid temperature 35 °C, for short periods 60 °C → Protection class (without switchgear) IP 67 → Gross tank volume 45 l → Switching volume 20 l | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Max. fluid temperature 40 °C, for short periods 60 °C → Protection class (without switchgear) IP 67 → Gross tank volume 62 to 140 l, depending on type → Switching volume 24 to 50 l, depending on type | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Operating mode: S1; S3 → Fluid temperature max. 40 °C, for short periods 60 °C → Protection class IP 67 → Tank volume 380 l → Switching volume 260 l |
| Equipment/function | <ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with float switch → Mains-independent alarm → Potential-free contact → Pump cable detachable → Non-return valve (RV version) → Inlet seal → Keyhole saw for inlet borehole → Hose connection for venting → Kit for pressure pipe connection → Fixation material → Soundproofing material → Switchgear | <ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with float switch → Mains-independent alarm → Potential-free contact → Pump cable detachable → Non-return valve (RV version) → Inlet seal → Keyhole saw for inlet borehole → Hose connection for venting → Kit for pressure pipe connection → Fixation material → Soundproofing material → Switchgear | <ul style="list-style-type: none"> → Thermal motor monitoring → Level control with level sensor → Potential-free contact → Pump cable detachable → Inlet seal DN 150 → Keyhole saw for inlet seal → Non-return valve → Hose connection for venting → Hose connection for diaphragm hand pump → Kit for pressure pipe connection → Fixation material → Switchgear with breakdown barrier |
| Special features | <ul style="list-style-type: none"> → Space-saving installation → Installation-friendly due to low weight and large scope of delivery incl. non-return valve → Flexible thanks to freely selectable inlets → Operational reliability thanks to integrated thermal motor protection and mains-independent alarm for SSM and high water | <ul style="list-style-type: none"> → Low system weight for an easy installation → Integrated non-return valve → Flexible thanks to freely selectable inlets → Operationally reliable thanks to integrated thermal motor protection and mains-independent alarm for SSM and high water | <ul style="list-style-type: none"> → Flexible thanks to height-adjustable and swivel-mounted inlet connection → Easy operation with menu-guided switchgear → Integrated non-return valve → Operationally reliable due to high switching volume and reliable level detection → Continuous duty (S1) possible thanks to the use of self-cooling motors |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> |



| Product range | Sewage lifting unit with 2 pumps for dry well installation | Pumps station | Pump chamber |
|----------------------|---|--|---|
| Series | Wilo-DrainLift XXL | Wilo-DrainLift WS 40 Basic Wilo-DrainLift WS 40/50 | Wilo-Port 600 Wilo-Port 800 |
| Field of application | Wastewater collection and transport | Wastewater collection and transport | Wastewater collection and transport |
| Duty chart | | | no illustration |
| Design | Sewage lifting unit with 2 pumps for dry well installation | Pump chamber with synthetic tank or as sewage lifting unit in the building, as single- or double-pump system | Pump chamber with synthetic tank as single or double pump system |
| Application | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall |
| Volume flow Q max. | 140 m ³ /h | 10 m ³ /h | |
| Delivery head H max. | 21 m | 8 m | |
| Technical data | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Operating mode S1 /S3 → Max. fluid temperature 40 °C, for short periods 60 °C → Protection class (without switchgear) IP 68 → Gross tank volume 400/800 l → Switching volume 305 ... 630 l | <ul style="list-style-type: none"> → Synthetic pump chamber made of recyclable PE → Maximum upward pressure reliability and inherent stability due to finning → Inlets freely selectable on site → For supply line in DN 100 → Ventilation pipe connection in DN 70 → Max. pressure in the pressure pipe 6 bar | <ul style="list-style-type: none"> → Synthetic pump chamber made of recyclable PE → Available in 4 different heights: from 1500 mm to 2250 mm → Pump chamber covers in three versions: A 15, B 125, D 400 → Telescopic chamber extension: 500 mm |
| Equipment/function | <ul style="list-style-type: none"> → Sheath current cooling → Thermal motor monitoring and leakage detection → Level control with level sensor → Potential-free contact → Pump cable detachable → Hose connection for venting → Hose connection for diaphragm hand pump → Kit for pressure pipe connection → Fixation material → Switchgear with breakdown barrier in the housing | <ul style="list-style-type: none"> → Wilo-DrainLift WS 40 Basic including sewage pump Drain TC 40 → For Wilo-DrainLift WS 40/50 following sewage pumps can be used: Drain TP 50/65, Rexa CUT | <ul style="list-style-type: none"> Wilo sewage pumps which can be used: Drain TMW 32, Drain TS 40, Drain TC 40, Drain STS 40, Drain MTC, Rexa CUT |
| Special features | <ul style="list-style-type: none"> → Flexible use thanks to one or two tanks → Optimum tank drainage with deep suction function → Operationally reliable thanks to large performance range and a reliable level detection → Continuous duty (S1) possible due to the use of self-cooling motors | <ul style="list-style-type: none"> → Pressure-tight pump chamber for floor-mounted or concealed floor installation → Flexible thanks to freely selectable inlets → Large tank volume → Including pipework, level control, switchgear and pump (basic version) | <ul style="list-style-type: none"> → Universal use thanks to continuous pump chamber extension up to 2.75 m → Anti-buoyant without weights for ground water levels up to the surface of the ground for maximum operational reliability → Pump chamber covers up to load class D 400 kN for high loading capacity → Easy maintenance thanks to surface coupling → Long service life thanks to pump chamber body made of corrosion-free polyethylene |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> |



Series modification



| Product range | Pump chamber | Solids separation system | Submersible pumps |
|----------------------|---|--|--|
| Series | Wilo-DrainLift WS 1100 | Wilo-EMUport CORE Wilo-EMUport FTS | Wilo-EMU polder pumps |
| Field of application | Wastewater collection and transport | Wastewater collection and transport | Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process |
| Duty chart | no illustration | | |
| Design | Pump chamber with synthetic tank, as single- or double-pump system | Sewage lifting unit with solid separation system according to DIN EN 12050-1 for installation in a building or manhole chamber (outdoor) | Polder pump |
| Application | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall | Potable and process water from tanks or shallow bodies of water; municipal and industrial water supply; sprinkling and irrigation; lowering the ground water level; utilisation of geothermal energy and in offshore applications |
| Volume flow Q max. | | 60 m ³ /h | 1,200 m ³ /h |
| Delivery head H max. | | 31 m | 160 m |
| Technical data | <ul style="list-style-type: none"> → Synthetic pump chamber made of recyclable PE → Maximum upward pressure reliability due to 4 lateral fins → 4 inlets can be selected on site → Maximum stability due to moulded hemispherical shape of the bottom of the pump chamber → Wilo surface coupling → Easy accessibility of the level sensor due to installation with hinged supporting bar → Maximum traffic load 5 kN/m² (in accordance with DIN EN 124, group 1) | <ul style="list-style-type: none"> → Max. continuous inlet: 15 m³/h → Max. inlet peak for 4h: 20 m³/h → Gross tank volume: 440 l → Usable tank volume: 295 l → Inlet connection: DN 200 → Discharge connection: DN 80 → Mains connection: 3~400 V, 50 Hz | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 °C → Minimum flow across outside shroud: not necessary → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: 300 m |
| Equipment/function | Wilo sewage pumps which can be used: Drain TS 40 Drain TP 50/65 Drain TP 80 Rexa FIT/PRO Drain MTC Rexa CUT | <ul style="list-style-type: none"> → Sewage lifting unit with solid separation system <ul style="list-style-type: none"> - Collection reservoir - 2x solids separation reservoir - 2x sewage pump - Complete pipework including inlet and pressure connection and non-return valve | <ul style="list-style-type: none"> → Multistage submersible pump → Semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Three-phase motor for direct or star-delta start → Motors rewindable as standard |
| Special features | <ul style="list-style-type: none"> → Flexible installation → Anti-buoyant → High stability | <ul style="list-style-type: none"> → Long service life and corrosion resistance thanks to PE/PUR material → Maintenance-friendly as all parts are accessible from outside → High operational reliability thanks to a pre-filtering of solid matter, the pumps deliver only the cleaned sewage → Retrofit system for the economic reconstruction of old pump stations | <ul style="list-style-type: none"> → Deep water lowering thanks to self-cooling motors → Sturdy construction in cast iron or bronze → Compact construction → Maintenance-friendly, rewindable motors → Optionally with Ceram CT coating for increasing the efficiency |
| Information | Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater collection and transport | Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake |



| Product range | Recirculation pumps | Submersible mixer | Submersible mixer |
|----------------------|--|---|---|
| Series | Wilo-EMU RZP 20 to RZP 80-2 | Wilo-EMU TR 14 to TR 28 | Wilo-EMU TR 22 to TR 40 |
| Field of application | Special applications, wastewater treatment | Special applications, wastewater treatment | Special applications, wastewater treatment |
| Duty chart | | no illustration | no illustration |
| Design | Submersible mixers with housing unit, directly driven or with single-stage planetary gear | Compact, directly driven submersible mixer | Directly driven submersible mixer |
| Application | Pumping wastewater and sewage with low delivery heads and large volume flows, e.g. between equalising, nitrification and denitrification tanks; pumping process, raw, clean and cooling water e.g. in paint finishing systems or for clean water treatment; flow generation in water channels, e.g. amusement parks | Turbulation of deposits and solids in stormwater retention tank and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply | Turbulation of deposits and solids in stormwater retention tank and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply |
| Volume flow Q max. | 6,800 m ³ /h | Thrust: 45 – 330 N | Thrust: 185 – 1100 N |
| Delivery head H max. | 1.1 m | | |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Units directly driven or with single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Stationary installation directly on the flow pipe → Flexible installation via lowering device → Vertical or in-line installation possible | <ul style="list-style-type: none"> → Stationary installation on wall and floor → Flexible installation through the use of lowering device or special pipe attachment → Can be swivelled vertically and horizontally when installed with a lowering device | <ul style="list-style-type: none"> → Stationary installation on wall and floor → Flexible installation via lowering device → Can be swivelled vertically and horizontally when installed with a lowering device |
| Special features | <ul style="list-style-type: none"> → Vertical or in-line installation possible → Self-cleaning propeller to avoid clogging → Propeller in steel or PUR | <ul style="list-style-type: none"> → Low power consumption → Low weight → Self-cleaning propeller with Helix hub to avoid clogging → Propeller in steel or PUR | <ul style="list-style-type: none"> → Self-cleaning propeller with Helix hub to avoid clogging → Propeller in cast iron, steel or PUR |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment |



Series extension



Series extension



| Product range | Submersible mixer | Submersible mixer | Treatment process |
|----------------------|--|---|---|
| Series | Wilo-EMU TR 50-2 to TR 120-1 Wilo-EMU TRE 90-2 with IE3 motor | Wilo-EMU TR 212 to TR 326 Wilo-EMU TRE with IE3 motor | Wilo-Sevio ACT SD 101 |
| Field of application | Special applications, wastewater treatment | Special applications, wastewater treatment | Wastewater treatment, industrial process |
| Duty chart | no illustration | no illustration | no illustration |
| Design | Submersible mixer with single-stage planetary gear | Slow-running submersible mixer with two-stage planetary gear reduction | Solids diffuser |
| Application | Use in activated sludge tanks and sludge tanks for flow generation, suspension of solids, homogenisation and prevention of floating sludge layers; further applications in industry, agriculture and water supply | Energetically optimised mixing and circulation of activated sludge; generation of flow rates in circulation channels; other applications in industry | Gentle mixing process of biomass particles in the pumped fluid |
| Volume flow Q max. | Thrust: 160 – 6620 N | Thrust: 390 – 4250 N | Circulation capacity 3300 – 4000 m ³ /h |
| Delivery head H max. | | | |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Two-stage planetary gear with exchangeable second planetary gear speed → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Stationary installation on walls → Flexible installation via lowering device → Can be swivelled horizontally when installed with a lowering device → Installation with stand allows free placement in basin → Single-stage planetary gear | <ul style="list-style-type: none"> → Installation with stand allows free placement in basin → Flexible installation → Two-stage planetary gear with exchangeable second planetary gear speed | <ul style="list-style-type: none"> → Height-adjustable suction pipe due to lowering device → Suction pipe with telescopic extension |
| Special features | <ul style="list-style-type: none"> → Planetary gear allows transmission of high torques to the propeller with an aerodynamic construction → Exchangeable planetary stage for adaptation of the propeller speed → Self-cleaning propeller with backward-bent blades to avoid clogging → Also with IE3 motor technology (on the basis of IEC 60034-30) → Propeller in steel, PUR or PUR/GFK | <ul style="list-style-type: none"> → Planetary gear allows transmission of high torques to the propeller with aerodynamic construction → Exchangeable planetary stage for adaptation of the propeller speed → Self-cleaning propeller with backward-bent blades to avoid clogging → Also with IE3 motor technology (on the basis of IEC 60034-30) | <ul style="list-style-type: none"> → Careful introduction of the biomass carrier particles into the fluid → Higher volume penetration for optimising the cleaning process → Reduced energy costs thanks to an improved cleaning performance → Also with IE3 motor technology (on the basis of IEC 60034-30) → Retrofit option for existing installations |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment | Documentation on request |



Series modification

| Product range | Aeration |
|----------------------|--|
| Series | Wilo-Sevio AIR |
| Field of application | Sewage treatment |
| Duty chart | no illustration |
| Design | Aeration system with panel, tube or disc aerators |
| Application | For rough to fine-bubble aeration of aqueous media such as water, wastewater or sludge, for the purposes of supplying oxygen |
| Volume flow Q max. | |
| Delivery head H max. | |
| Technical data | <ul style="list-style-type: none"> → Operating temperature range: <ul style="list-style-type: none"> - Air: 5...60 °C - Fluid: 5...30 °C → Nominal loading range: <ul style="list-style-type: none"> - Disc areator: 5...12 Nm³/h - Panel areator: 2...38 Nm³/h - Tube areator: 4...12 Nm³/h |
| Equipment/function | → Aeration system including pipework made from PVC or stainless steel |
| Special features | <ul style="list-style-type: none"> → High operational reliability thanks to integrated non-return valve (with panel aerators) → High system efficiency due to increased ventilation capacity → Optimised ventilation process due to selection of the appropriate aerator - plate, strip or disc aerator → Optimisation of the ventilation process in combination with submersible mixers |
| Information | Documentation on request |

Wilo-RexaLift FIT L, the dependable one



“Wilo pumps make a major contribution to high process efficiency in industry too.”



Industry

Pumps and systems for cooling and heating,
for cleaning or for peripheral process support.



Wilo vertical turbine pump,
the strong one

Finding the right solution

Wilo ideas for industry.

Every sector of industry has its own extremely high standards for its production processes and the material of all components involved. In light of this, Wilo pumps and systems can contribute in a wide variety of ways to ensuring highly efficient and highly reliable production.

For instance, our solutions help the foodstuffs industry to comply with critical quality and hygiene standards, and help the metals industry to meet very demanding requirements and environmental standards. In the mining industry,

our systems convey important raw materials securely and reliably while in the energy sector, they make a major contribution to security of supply in power stations, even at peak loads. Our pumps are also used in industry for precise climate control of rooms and factory halls, and for the supply, treatment and disposal of water.

Regardless of the application, you can depend on our world-renowned quality and system expertise – just as many well-known industrial companies have before.



Salzgitter Flachstahl GmbH, Salzgitter, Germany.
Long lifetimes make for low operating costs.

The task: Following an expansion of the warm water rolling mill, the increased production also increased the load on the scale-forming water circuit. A second circuit had to be installed.

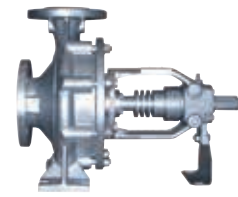
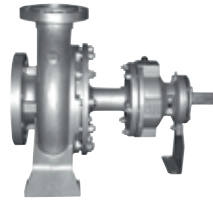
The solution: A highly wear-resistant Wilo-EMU FA 30 submersible pump was used for more than a year and was replaced by two installers in just two days.

Result: Extremely low life cycle costs.

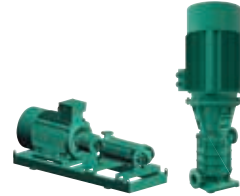




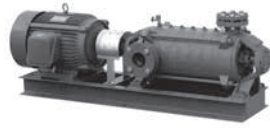
| Product range | Glanded monobloc pumps | Standard glanded pumps | Standard glanded pumps |
|----------------------|--|---|--|
| Series | Wilo-CronoBloc-BL | Wilo-CronoNorm-NL | Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, water supply, industrial process | Heating, air-conditioning, cooling, water supply, industrial process |
| Duty chart | | | |
| Design | Glanded pump in monobloc design with flange connection | Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate | Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate |
| Application | For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems | <ul style="list-style-type: none"> → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | <ul style="list-style-type: none"> → 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 → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. |
| Volume flow Q max. | 377 m³/h | 650 m³/h | 2,800 m³/h |
| Delivery head H max. | 105 m | 150 m | 140 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 150 → Max. operating pressure 16 bar (25 bar on request) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter on suction side DN 50 to DN 500 → Nominal diameter on pressure side DN 32 to DN 500 → Max. operating pressure: varies according to type and application – up to 16 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C (depending on type) → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameters: DN 150 to DN 500 (depending on type) → Max. operating pressure: varies according to type and application – up to 16 bar |
| Equipment/function | Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW | <ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Shaft coupling with spacer coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW | <ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings (NLG only) in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or packing stuffing box → Spiral housing with cast pump bases → Greased grooved ball bearings for bearing of pump shaft → Motors with efficiency class IE3 |
| Special features | <ul style="list-style-type: none"> → Reduced life-cycle costs through optimised efficiency levels → High corrosion protection through cathaphoretic coating of the cast iron components → Standard condensate drainage holes in the motor housings → High worldwide availability of standard motors (according to Wilo specifications) and mechanical seals → Meets user requirements due to performance and main dimensions in accordance with EN 733 (DIN for norm pumps) | <ul style="list-style-type: none"> → Reduced life-cycle costs through optimised efficiency levels → Bidirectional, force-flushed mechanical seal → Low NPSH values, best cavitation properties → Shaft coupling with or without spacer coupling | NLG: <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency → Mechanical seal independent of the direction of rotation, with forced flushing → Interchangeable casing wear ring → Permanently lubricated, generously dimensioned roller bearings → Low NPSH values, best cavitation properties NPG: <ul style="list-style-type: none"> → Suitable for temperatures up to 140°C → Back-pull-out version → Extension of the DIN EN 733 product range |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com |



| Product range | Standard pumps in accordance with EN 733 | Standard pumps in accordance with EN 733 and EN 22858 | Standard pumps in accordance with EN 733 |
|----------------------|--|--|--|
| Series | Series NOLH Series NOEH | Series NESD Series NESE | Series NFCH |
| Field of application | Industrial process | Industrial process | Industrial process |
| Duty chart | | | |
| Design | Single-stage low-pressure centrifugal pump mounted on a baseplate | Single-stage low-pressure centrifugal pump mounted on a baseplate | Single-stage low-pressure centrifugal pump mounted on a baseplate |
| Application | For supplying clean or slightly muddy fluids without solid material. For use in the following applications: <ul style="list-style-type: none"> → Industrial process → Non-hygienic food industry → Power generation → Water circulation in the metals industry → Heating, cold water and cooling water systems | For heat transfer or circulating hot water in industrial processes, for power generation or in building services | For pumping mineral or synthetic heat-carrier fluids up to 350 °C, e.g.: in industrial processes or power generation |
| Volume flow Q max. | 1,800 m³/h | 600 m³/h | 1,000 m³/h |
| Delivery head H max. | 140 m | 90 m | 90 m |
| Technical data | <ul style="list-style-type: none"> → Permitted temperature range -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure PN 16 → Minimum efficiency index MEI ≥ 0.1 (NOLH only, for the series) | <ul style="list-style-type: none"> → Max. permitted fluid temperature NESD: 207 °C NESE: 0 °C ... 120 °C (40 bar) 120 °C ... 200 °C (35 bar) 200 °C ... 230 °C (32 bar) → Minimum fluid temperature: 170 °C → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure NESD: PN 25; NESE: PN 40 | <ul style="list-style-type: none"> → Permitted temperature range up to +350 °C, depending on max. operating pressure: 0 °C ... 120 °C (16 bar) 120 °C ... 300 °C (13 bar) 300 °C ... 350 °C (16 bar) → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure PN 16 |
| Equipment/function | <ul style="list-style-type: none"> → Single-stage, horizontal centrifugal pump with axial suction connection and radial, upwards-facing pressure connection → Dimensions and hydraulic output as per EN 733 → Hydraulics made from cast iron (ML) or stainless steel (MX) depending on version. → Sealed by uncooled mechanical seal → Version with or without spacer coupling → 2 or 4-pole IEC standard motor → Baseplate made from steel or cast iron → Supplied as a complete unit: <ul style="list-style-type: none"> - With pump, coupling, coupling guard, motor and baseplate or - Without motor or - Pump only, with free shaft end | <ul style="list-style-type: none"> → Single-stage, horizontal centrifugal pump with axial suction connection and radial, upwards-facing pressure connection → Dimensions and hydraulic output as per EN 22858 → Special self-cooling design allows use of an uncooled shaft seal. Additional or external cooling devices are not required. → Hydraulics in spheroidal cast iron EN-GS400 (MG version) → Flange version in accordance with EN 1092-1 → With or without spacer coupling → 2 or 4-pole IEC standard motor 50 Hz → Baseplate steel or cast iron → Supplied as a complete unit: <ul style="list-style-type: none"> - With pump, coupling, coupling guard, motor and baseplate or - Without motor or - Pump only, with free shaft end | <ul style="list-style-type: none"> → Single-stage, horizontal centrifugal pump with axial suction connection and radial, upwards-facing pressure connection → Dimensions and hydraulic output as per EN 733 → Self-cooling design with double temperature barrier allows the use of an uncooled shaft seal and reduces heat loss. → Standard mechanical seal corresponding to the heat-carrier fluid → Version with or without spacer coupling → 2 or 4-pole IEC standard motor 50 Hz → Supplied as a complete unit: <ul style="list-style-type: none"> - With pump, coupling, coupling guard, motor and baseplate or - Without motor or - Pump only, with free shaft end |
| Special features | <ul style="list-style-type: none"> → Impeller diameter is adjusted to the desired duty point → Many version options for the shaft seal → 60 Hz or ATEX version on request | <ul style="list-style-type: none"> → Impeller diameter is adjusted to the desired duty point → 60 Hz or ATEX version on request | <ul style="list-style-type: none"> → Impeller diameter is adjusted to the desired duty point → 60 Hz or ATEX version on request |
| Information | Documentation on request | Documentation on request | Documentation on request |



| Product range | Submersible pumps | Submersible pumps | Vertical and horizontal, multistage centrifugal pumps |
|----------------------|---|---|---|
| Series | Series Norma V | Series MMI 50 V | Wilo-Zeox FIRST H Wilo-Zeox FIRST V |
| Field of application | Industrial process | Industrial process | Rainwater utilisation, water distribution/boosting, raw water intake |
| Duty chart | | | |
| Design | Single-stage submersible pump with pump hydraulics as per EN 733 | Multistage submersible pump | Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical or horizontal design with off-line connections |
| Application | For pumping clean or slightly contaminated fluids in industrial processes and in sewage treatment as well as for transporting lightweight mineral oil products For installation in tanks, vessels, rainwater storage tanks and chambers | For pumping clean or slightly contaminated water in industrial processes or clean water treatment. Ideal in situations where only small installation spaces are available → Installation in tanks, vessels, rainwater storage tanks and chambers | For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation |
| Volume flow Q max. | 200 m ³ /h | 30 m ³ /h | 280 m ³ /h |
| Delivery head H max. | 100 m | 180 m | 495 m |
| Technical data | <ul style="list-style-type: none"> → Permitted temperature range up to +120 °C → Nominal diameter on pressure side DN 32 to DN 100 → Max. operating pressure PN 16 → Mains connection 3~400 V, 50 Hz → Max. viscosity 150 cSt | <ul style="list-style-type: none"> → Permitted temperature range -20 °C to +120 °C → Nominal diameter on pressure side DN 32 to DN 100 → Max. operating pressure PN 10 or PN 16 → Mains connection 3~400 V, 50 Hz → Max. viscosity 150 cSt | <ul style="list-style-type: none"> → Permitted temperature range of the fluid: -5 °C to +90 °C → Max. suction pressure: <ul style="list-style-type: none"> - Zeox FIRST .. V/.. H: 6/16 bar → Max. operating pressure: <ul style="list-style-type: none"> - Zeox FIRST V: 27 bar - Zeox FIRST H (DN65 to DN100): 50 bar; Zeox FIRST H (DN150): 40 bar → Protection class: IP 55 → Minimum efficiency index MEI ≥ 0,4 (for Zeox FIRST V up to 100 m³/h) |
| Equipment/function | <ul style="list-style-type: none"> → Single-stage vertical turbine pump, discharge bend with axial suction → Connection on pressure side above or optionally also below the connection plate → Flange version in PN 10/16/25 → Basic versions: <ul style="list-style-type: none"> - VCS: adjustable base/fixed coupling - VEM: cast iron support/fixed coupling - VTM: bearing block/semi-elastic coupling → Optional: explosion-proof float switch; → Optional: external lubrication of bearing or lubrication provided by fluid (default) | <ul style="list-style-type: none"> → VCS: adjustable base and fixed coupling → VEM: cast iron support and fixed coupling → VTM: bearing block and semi-elastic coupling → VTMRI: bearing block and semi-elastic coupling with internal drain (shaft seal) for small installation spaces → VRI: cast iron support, fixed coupling and internal drain (shaft seal) for small installation spaces | <ul style="list-style-type: none"> → IE3 high-efficiency motor as standard → Flushing by-pass device to ensure a long service life → Packing gland on request, exchangeable without disassembling the pump |
| Special features | <ul style="list-style-type: none"> → Low maintenance → No shaft sealing → Noise-free suction → Replaceable IEC standard motor → Semi-elastic coupling with the VTM version | <ul style="list-style-type: none"> → Low maintenance → No mechanical seal → Noise-free suction → Replaceable IEC standard motor → VTM with semi-elastic coupling → VTMRI/VRI: internal seal for pressure side and mechanical seal → All parts in contact with fluid are made of stainless steel → For high-pressure applications | <ul style="list-style-type: none"> → High-efficiency hydraulics and high-efficiency IE3 motor → Standard rinsing device for the sealing system → Additional flange alignments and stuffing box packing on request → Bronze impeller on request |
| Information | Documentation on request | Documentation on request | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply |



| Product range | Sectional pumps | Axially split case pumps | Vertical turbine pumps |
|----------------------|---|--|---|
| Series | Series RN, HS, IPB, PJ, STD PLURO, FG/FH | Wilo-SCP | Series VMF, CNE, VAF |
| Field of application | Industrial process | Cooling, air-conditioning, water distribution/boosting, industrial process | Water distribution/boosting, industrial process |
| Duty chart | no illustration | | no illustration |
| Design | Multistage high-pressure multistage centrifugal pump in sectional construction, mounted on baseplate | Low-pressure centrifugal pump with axially split housing mounted on a baseplate | Vertical turbine pumps for dry well installation with submerged axial or semi-axial hydraulics |
| Application | For industrial use in high-pressure applications, such as: <ul style="list-style-type: none"> → Metal industry → Mine dewatering → Desalination plants → Boiler supply → Fire fighting → High-pressure cleaning → Water supply | <ul style="list-style-type: none"> → Pumping heating water in accordance with VDI 2035, water-glycol mixtures, cooling/cold water and process water → Applications in municipal water supply, irrigation, building services, general industry, power stations, etc. | For industrial or municipal water supply and <ul style="list-style-type: none"> → Irrigation → Fire fighting → Cooling water supply → Dewatering and flood control |
| Volume flow Q max. | 1,000 m ³ /h | 3,400 m ³ /h | 40,000 m ³ /h |
| Delivery head H max. | 1800 m | 245 m | 450 m |
| Technical data | <ul style="list-style-type: none"> → Permitted temperature range up to +80 °C, or up to +160 °C on request → Max. operating pressure 180 bar → Nominal diameter on pressure side DN 32 to DN 250 | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Fluid temperature -8 °C to +120 °C → Protection class IP 55 → Nominal diameters – Suction side: DN 65 to DN 500 → Pressure side: DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type | <ul style="list-style-type: none"> → Permitted temperature range up to 80 °C, or up to 105 °C on request → Nominal diameter on pressure side DN 100 to DN 2000 |
| Equipment/function | <ul style="list-style-type: none"> → High-pressure multistage centrifugal pump in sectional construction → 2 to 15-stage industrial version → Screwed segments → Hydraulic axial compensation → Shaft sealing with mechanical seal or stuffing box packing → Optionally with multiple pressure outlets for e.g.: Fire extinguishing applications → 2- or 4-pole 50 Hz motors, 60 Hz on request → Supplied as a complete unit <ul style="list-style-type: none"> - With pump, coupling, motor mounted on baseplate or - Without motor or - As pump only, with free shaft end | <ul style="list-style-type: none"> 1- or 2-stage, low-pressure centrifugal pump in monobloc design → Deliverable as complete unit or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors Materials: <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13 | For types of installation with pressure port, for concealed floor, floor-mounted or twin-ceiling installation <ul style="list-style-type: none"> → Design: <ul style="list-style-type: none"> - As removable or permanent installation - With axial or semi-axial, single or multistage hydraulics - With open shaft for bearing lubrication with the fluid, or with shaft trim for separate bearing lubrication → Drive options: Electric motor, diesel motor or steam turbine |
| Special features | <ul style="list-style-type: none"> → Modular design ensures pump versions in a variety of materials and versions which can be adapted to meet customer demands precisely → Hydraulic pressure compensation relieves load on bearings and ensures a longer lifetime. → Multiple optional pressure connections allow different pressures to be supplied from a single pump | <ul style="list-style-type: none"> → Higher capacities up to 17,000 m³/h on request → Special motors and other materials on request | <ul style="list-style-type: none"> → Minimum surface area needed → High hydraulic efficiency → Submerged pump hydraulics → Design to order as per customer specifications |
| Information | Documentation on request | Online catalogue: productfinder.wilo.com | Documentation on request |



Series modification

| Product range | Glanded high-efficiency pumps in in-line design | Glanded high-efficiency pumps in monobloc design. | Glanded energy-saving pumps in in-line design |
|----------------------|--|---|--|
| Series | Wilo-Stratos GIGA | Wilo-Stratos GIGA B | Wilo-VeroLine-IP-E Wilo-VeroTwin-DP-E |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | High-efficiency in-line pump with EC motor, electronically controlled, with flange connection, in glanded design | High-efficiency monobloc pump with EC motor and electronic power adjustment in glanded pump design, with flange connection and mechanical shaft seal | Energy-saving in-line pump/in-line double pump with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal |
| Application | 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 | Pumping of heating water (acc. to VDI 2035), cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling 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. | 120 m ³ /h | 120 m ³ /h | 170 m ³ /h |
| Delivery head H max. | 52 m | 52 m | 30 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V – 3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.7 → Protection class IP 55 → Max. operating pressure 16 bar up to +120 °C, 13 bar up to +140 °C | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V – 3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.7 → Protection class IP 55 → Max. operating pressure 16 bar up to +120 °C, 13 bar up to +140 °C | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 10 (16) bar |
| Equipment/function | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (effective only in double pump operation mode), analogue input 0–10 V/0–20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable → Dual pump management | <ul style="list-style-type: none"> → Operating modes: Δp-c, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, External pump cycling, analogue input 0–10 V/0–20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, Plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (effective only in double pump operation mode), analogue input 0–10 V/0–20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable |
| Special features | <ul style="list-style-type: none"> → Innovative high-efficiency pump for maximum total-system efficiency → High-efficiency EC motor (efficiency above IE4 limit values) → 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 → Control range is up to three times higher than that of conventional electronically controlled pumps | <ul style="list-style-type: none"> → Innovative high-efficiency pump with principal dimensions in accordance with EN 733 → High-efficiency EC motor (efficiency above IE4 limit values) → 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 → Control range is up to three times higher than that of conventional electronically controlled pumps | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → Motors with efficiency class IE4 |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling |



Series modification



Series modification



| Product range | Glanded energy-saving pumps in in-line design | Glanded energy-saving pumps in monobloc design | Glanded standard pumps in in-line design |
|----------------------|--|--|---|
| Series | Wilo-CronoLine-IL-E Wilo-CronoTwin-DL-E | Wilo-CronoBloc-BL-E | Wilo-VeroLine-IPL Wilo-VeroTwin-DPL |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | Energy-saving in-line pump/in-line double pump with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal | Energy-saving pump in monobloc design with electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal | Glanded pump/double pump in in-line design with screwed connection or flange connection |
| Application | 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 | 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 | 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. | 800 m ³ /h | 380 m ³ /h | 245 m ³ /h |
| Delivery head H max. | 65 m | 84 m | 52 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: <ul style="list-style-type: none"> 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 40 to DN 80 → Max. operating pressure 16 bar | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: <ul style="list-style-type: none"> 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 125 → Max. operating pressure 16 bar (120 °C) | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar (special version: 16 bar) |
| Equipment/function | <ul style="list-style-type: none"> → Operating modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (effective only in double pump operation mode), analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable | <ul style="list-style-type: none"> → Operating modes: Δp-c (with external DDG), PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, analogue input 0-10 V/0-20 mA for manual control mode (DDC) → Infrared interface for wireless data exchange with IR-Monitor/IR-Stick, plug-in position for IF-Modules for connection to building automation → Safety functions: E.g. full motor protection, access disable → Motors with efficiency class IE4 for motors from 11 kW up to 22 kW | <ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Motor with one-piece shaft → DPL with switchover valve → Motors with efficiency class IE3 for motors ≥ 7.5 kW |
| Special features | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → 2-pole pumps: Motors with efficiency class IE4; 4-pole-pumps: Motors with efficiency class IE4 for motors from 11 kW up to 22 kW | <ul style="list-style-type: none"> → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Simple operation due to tried-and-tested red-button technology and display → Integrated full motor protection with trip electronics → Meets user requirements due to performance and main dimensions in accordance with EN 733 (DIN for norm pumps) | <ul style="list-style-type: none"> → High standard of corrosion protection thanks to cathaphoretic coating → Standard condensate drainage holes in the motor housings and lanterns → Series design: motor with one-piece shaft → Version N: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional, force-flushed mechanical seal → DPL: Main-/standby operation or peak-load operation (via additional external device) |
| 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> |



Series extension



| Product range | Glanded standard pumps in in-line design | Special glanded pumps in in-line design | Special glanded pumps in in-line design |
|----------------------|---|---|---|
| Series | Wilo-CronoLine-IL Wilo-CronoTwin-DL | Wilo-VeroLine-IPH-W Wilo-VeroLine-IPH-O | Wilo-VeroLine-IPS |
| Field of application | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | Glanded pump/double pump in in-line design with flange connection | Glanded pump in in-line design with flange connection | Glanded pump in in-line design with screwed connection or flange connection |
| Application | 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 | IPH-W: For pumping hot water without abrasive substances in closed industrial circulation systems, district heating, closed heating systems, etc. IPH-O: For pumping heat transfer oil in closed industrial circulation systems | For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems |
| Volume flow Q max. | 1,170 m ³ /h | 80 m ³ /h | 13 m ³ /h |
| Delivery head H max. | 108 m | 38 m | 3 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 250 → Max. operating pressure 16 bar (25 bar on request) | <ul style="list-style-type: none"> → Fluid temperature IPH-W: -10 °C to +210 °C (at max. 23 bar) → Fluid temperature IPH-O: -10 °C to +350 °C (at max. 9 bar) → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameter DN 20 to DN 80 | <ul style="list-style-type: none"> → Fluid temperature -10 °C to +140 °C → Mains connection 3~230 V, 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 55 → Nominal diameter Rp 1, DN 40 and DN 50 → Max. operating pressure 10 bar, or 6 bar for flange connection |
| Equipment/function | Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor → DL with switchover valve → Motors with efficiency class IE3 for motors ≥ 7.5 kW | Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Motor with special shaft | Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal or stuffing box packing → Screwed or flange connection with pressure measuring connection R ½ → Standard motor |
| Special features | <ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Standard condensate drainage holes in the motor housings → Can be used flexibly in air-conditioning and cooling systems, with application benefits due to direct draining of condensate → High standard of corrosion protection → High worldwide availability of standard motors (according to Wilo specifications) and standard mechanical seals → Main/standby mode or peak-load operation (by means of external auxiliary device) | <ul style="list-style-type: none"> → Self-cooling mechanical seal, independent of direction of rotation → Great variety of applications due to a wide fluid temperature range without additional wearing parts | <ul style="list-style-type: none"> → Worldwide availability of the standard motors used → Bidirectional force-flushed mechanical seal |
| Information | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com |



| Product range | Glanded monobloc pumps | Glanded special pumps | Glanded energy-saving pumps Multi-pump systems |
|----------------------|---|---|---|
| Series | Wilo-BAC | Wilo-VeroLine-IP-Z | Wilo-SiFlux |
| Field of application | Heating, air-conditioning, cooling, industrial process | Domestic hot water | Heating, air-conditioning, cooling, industrial process |
| Duty chart | | | |
| Design | Glanded pump in monobloc design with screwed connection or Victaulic connection | Glanded circulation pump in in-line design with screwed connection | Highly efficient, fully automatic, ready for connection multi-pump system for high volume flows in heating, cold water and cooling water systems. 3 to 4 electronically controlled glanded in-line pumps switched in parallel |
| Application | For pumping of cooling water, cold water, water-glycol mixtures and other fluids without abrasive substances | For pumping drinking water, cold and hot water (in accordance with VDI 2035) without abrasive substances, in heating, cold water and cooling water systems | For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems |
| Volume flow Q max. | 87 m ³ /h | 5 m ³ /h | 490 m ³ /h |
| Delivery head H max. | 26 m | 4.5 m | 55 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Protection class IP 54 → Nominal diameter G2/G 1½ (only BAC 40.../S) or Victaulic connection Ø 60.3/48.3 mm (BAC 40.../R) Ø 76.1/76.1 mm (BAC 70.../R) → Max. operating pressure 6.5 bar | <ul style="list-style-type: none"> → Fluid temperature: domestic hot water up to a water hardness of 4.99 mmol/l (28 °d) max. +65 °C → In short-term duty (2 h) up to +110 °C → Heating water -8 °C to +110 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp 1 → Max. operating pressure 10 bar | <ul style="list-style-type: none"> → Pump type: VeroLine-IP-E or CronoLine-IL-E → Mains connection: 3~230/400 V, 50 Hz ±10 % → Fluid temperature: 0 °C to +120 °C → Pipe connections: DN 125 to DN 300 → Flanges: PN 16, according EN 1092-2 → Max. permissible operating pressure: 10 bar (IP-E), 16 bar (IL-E) |
| Equipment/function | <ul style="list-style-type: none"> → Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port → Motors with efficiency class IE3 | <ul style="list-style-type: none"> → Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Screwed connection → Motor with one-piece shaft | <ul style="list-style-type: none"> → Number of pumps: 2+1 or 3+1 (2 or 3 pumps in operation, 1 standby pump each) → Automatic pump control via Wilo-SCe → Parts that come in contact with the fluid are corrosion-resistant → Base frame made of galvanised steel, with height-adjustable vibration absorbers for insulation against structure-borne noise → Distributor steel, with corrosion-resistant coating → Shut-off valves, non-return valve, pressure gauge and premounted seals → Differential pressure sensor |
| Special features | <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency levels → Pump housing in plastic design → Version with Victaulic or threaded connection (BAC 70/135... only with Victaulic connection) | <ul style="list-style-type: none"> → High resistance to corrosive fluids due to stainless steel housing and Noryl impeller → Wide range of applications due to suitability for water hardness up to 5 mmol/l (28 °dH) → All plastic parts that come into contact with the fluid fulfil KTW recommendations | <ul style="list-style-type: none"> → Quick and easy installation → Energy-saving: Operation in partial load area according to current needs → Reliable system thanks to optimally matched components → Compact design, good accessibility to all components |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling | Online catalogue: productfinder.wilo.com |



| Product range | Particle separator systems for closed HVAC loops | Particle separator systems for closed HVAC loops | Submersible pumps |
|----------------------|---|---|---|
| Series | Wilo-SiClean | Wilo-SiClean Comfort | Wilo-Sub TWI 4/6/8/10 ... |
| Field of application | Heating, air-conditioning, cooling | Heating, air-conditioning, cooling | Rainwater utilisation, water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture |
| Duty chart | no illustration | no illustration | |
| Design | Compact particle separator kit, consisting of mechanical and hydraulic components. Manual emptying of the system. | Fully-automatic, compact particle separator, provided as "Plug & Play" version, consisting of mechanical and hydraulic components. The system is drained automatically. | Submersible pump, multistage |
| Application | SiClean removes magnetic and non-magnetic particles from heating systems via natural physical phenomena. Installation in commercial properties and heating/air-conditioning systems for district heating. | SiClean Comfort removes particles from heating systems using natural physical phenomena. For installation in commercial properties and heating/air-conditioning systems for district heating. | Water supply (including drinking water supply) from boreholes and rainwater storage tanks; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; pumping of water without long-fibre or abrasive components |
| Volume flow Q max. | 4 m ³ /h | 47 m ³ /h | 165 m ³ /h |
| Delivery head H max. | – | – | 500 m |
| Technical data | <ul style="list-style-type: none"> → Fluid temperature 0 °C to +95 °C → Mains connection: 1~230 V, 50 Hz | <ul style="list-style-type: none"> → Fluid temperature 0 °C to +95 °C → Mains connection: 3~400 V, 50 Hz | <ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz (only TWI 4 ...) or 3~400 V, 50 Hz → Fluid temperature: 3~20 °C or 3~30 °C → Min. flow rate at motor: 0.08–0.5 m³/s → Max. sand content: 50 g/m³ → Up to 10 or 20 starts per hour → Max. immersion depth: 100–350 m → Minimum efficiency index MEI: up to ≥ 0.7 (for the series TWI 4 and TWI 6) |
| Equipment/function | <ul style="list-style-type: none"> → Anti-corrosive, hydraulic components → Fabric-reinforced hoses connected to inlet and outlet of the particle separator → Pre-assembled venting unit for expulsion of microbubbles → Movable magnetic rods for separation of iron oxide particles → Volume flow limiter → Manual purge valve for draining of collected particles → Switchbox for monitoring the circulation pump | <ul style="list-style-type: none"> → Corrosion-resistant, hydraulic components → Fabric-reinforced hoses connected to inlet and outlet of the particle separator → Pre-assembled flushing device including electronic drain valve and additional safety valve → Automatic draining of the particle collection chamber → SC switchgear → Separator for removing magnetic and non-magnetic particles | <ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Single-phase or three-phase AC motor |
| Special features | <ul style="list-style-type: none"> → Removal of magnetic and non-magnetic particles from the medium, venting of micro bubbles → High cleaning efficiency due to physical effects (gravity, filtration...) → Easy to use due to ease of installation, maintenance, and simplified settings → Corrosion-resistant thanks to stainless steel particle separator | <ul style="list-style-type: none"> → High efficiency via combination of physical effects → Fully automated operation → "Plug & Play" design → Fully automated and adjustable disposal of collected particles in the desludging tank → Highly functional thanks to removal of all magnetic and non-magnetic particles, free air and micro bubbles in the fluid and support for the degasification process | <ul style="list-style-type: none"> → Corrosion-resistant thanks to stainless steel version → Flexible installation thanks to vertical and horizontal installation → Easy installation due to integrated non-return valve → Large performance range → ACS approval for TWI 4 for drinking water application |
| Information | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply/Water Management catalogue: Water supply – Raw water intake |



Series extension



Series modification



| Product range | Submersible pumps | Sprinkler pumps with VdS approval | Submersible pumps |
|----------------------|--|---|--|
| Series | Wilo-EMU 6" series Wilo-EMU 8" series Wilo-EMU 10"...24" series Wilo-Zetos K 8 | Wilo-EMU sprinkler pumps | Wilo-EMU polder pumps |
| Field of application | Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture | Fire fighting | Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process |
| Duty chart | | | |
| Design | Submersible pump with sectional construction | Submersible pump with sectional construction | Polder pump |
| Application | Supply of potable and other water from boreholes and rainwater storage tanks; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; utilisation of geothermal energy and in offshore applications | Supplying sprinkler systems | Potable and process water from tanks or shallow bodies of water; municipal and industrial water supply; sprinkling and irrigation; lowering the ground water level; utilisation of geothermal energy and in offshore applications |
| Volume flow Q max. | 2,400 m ³ /h | 580 m ³ /h | 1,200 m ³ /h |
| Delivery head H max. | 560 m | 140 m | 160 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 ... 30 °C → Minimum flow rate at motor: 0.1 ... 0.5 m/s → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: 100 or 300/350 m → Minimum efficiency index MEI: up to ≥ 0.7 (for the series NK 6...) | <ul style="list-style-type: none"> → Mains connection: 3~400 V/50 Hz → Max. fluid temperature: 25 °C; higher temperatures on request → Minimum flow rate at motor: 0.1 m/s → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: <ul style="list-style-type: none"> - NU 611 = 100 m - Other motors = 300 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 °C → Minimum flow across outside shroud: not necessary → Max. sand content: 35 g/m³ → Up to 10 starts per hour → Max. immersion depth: 300 m |
| Equipment/function | <ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Integrated non-return valve (depending on type) → NEMA coupling or standardised connection → Three-phase motor for direct or star-delta start | <ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → NEMA coupling (depending on type) → Three-phase motor for direct or star-delta start → Rewindable motors | <ul style="list-style-type: none"> → Multistage submersible pump → Semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Three-phase motor for direct or star-delta start → Motors rewindable as standard |
| Special features | <ul style="list-style-type: none"> → Pressure shroud in corrosion-resistant and hygienic stainless steel version → Hydraulic in stainless steel precision casting (Zetos K 8) → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency → Optional with ACS approval for drinking water application | <ul style="list-style-type: none"> → VdS certification → Sturdy version in cast iron or bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing for minimising noise and vibrations → VdS certified non-return valve is available as an accessory | <ul style="list-style-type: none"> → Deep water lowering thanks to self-cooling motors → Sturdy construction in cast iron or bronze → Compact construction → Maintenance-friendly, rewindable motors → Optionally with Ceram CT coating for increasing the efficiency |
| Information | Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake | Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply | Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake |



Series modification



| Product range | Submersible drainage pumps | Pedestal pumps | Submersible drainage pumps |
|----------------------|---|--|--|
| Series | Wilo-Drain TMT | Wilo-Drain VC | Wilo-Drain TS 40 Wilo-Drain TS 50 Wilo-Drain TS 65 |
| Field of application | Special applications, dewatering/flood control, industrial process | Professional irrigation/agriculture, special applications, dewatering/flood control, industrial process | Wastewater collection and transport, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Submersible drainage pumps | Vertical drainage pumps | Submersible drainage pumps |
| Application | Pumping of condensate, hot water and aggressive media in industrial applications | Pumping of wastewater and condensate up to 95 °C from pump sumps and from cellars at risk of flooding | For pumping wastewater in house/site drainage, in environmental and water treatment technology and industrial and process engineering |
| Volume flow Q max. | 22 m ³ /h | 14 m ³ /h | 53 m ³ /h |
| Delivery head H max. | 15,5 m | 20 m | 25 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class IP 68 → Max. immersion depth 7 m → Fluid temperature max. 95 °C → Cable length 10 m → Free ball passage 9 mm → Pressure port G 1¼ | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Protection class IP 54 → Fluid temperature +5 °C to +95 °C → Free ball passage 5 or 7 mm, depending on type → Pressure port Rp 1¼ or Rp 1½ depending on type | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Protection class IP 68 → Immersion depth 5 to 7 m → Fluid temperature 3 °C to 35 °C → Free ball passage 10 mm → Pressure port Rp 1½, Rp 2 or Rp 2½ depending on type |
| Equipment/function | <ul style="list-style-type: none"> → Housing and impeller made of grey cast iron → Winding temperature monitoring with bimetal sensor | <ul style="list-style-type: none"> → Attached float switch | <ul style="list-style-type: none"> → Ready-to-plug versions also with float switch → Thermal motor monitoring → Explosion protection for TS 50 and TS 65 → Connection cable 10 m → Connection cable detachable → Integrated non-return valve for TS 40 → Hose connection for TS 40 |
| Special features | <ul style="list-style-type: none"> → For fluids up to 95 °C → Sealed cable inlet | <ul style="list-style-type: none"> → For fluids up to 95 °C → Long service life → Easy operation thanks to attached float switch → Long standstill times possible → Integrated motor protection with thermal relay | <ul style="list-style-type: none"> → Low weight → Large performance range → Oil separation chamber → Easy operation thanks to attached float switch and plug (A version) |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> |



| Product range | Submersible drainage pumps | Submersible sewage pumps | Submersible sewage pumps |
|----------------------|---|---|---|
| Series | Wilo-EMU KS | Wilo-Drain TP 80 Wilo-Drain TP 100 | Wilo-EMU FA 30 ... to FA 60 ... |
| Field of application | Dewatering/flood control, industrial process | Special applications, wastewater collection and transport, dewatering/flood control, industrial process | Special applications, wastewater collection and transport, dewatering/flood control, industrial process |
| Duty chart | | | |
| Design | Submersible drainage pumps in rugged design for use on building sites | Submersible sewage pump for industrial applications | Submersible sewage pump with dry motors or self-cooling motors |
| Application | For dewatering of excavation pits, cellar areas, chambers and basins. Ideally suited for use in fountains | Pumping heavily contaminated fluids, for environmental and water treatment technology and industrial and process engineering | Pumping sewage with solid content in wastewater treatment plants and pumping stations; local dewatering and industrial applications |
| Volume flow Q max. | 165 m ³ /h | 180 m ³ /h | 7,950 m ³ /h |
| Delivery head H max. | 62 m | 21 m | 87 m |
| Technical data | <ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operating mode S1 → Max. fluid temperature 40 °C → Protection class IP 68 → Sealed by double mechanical seal → Maintenance-free roller bearing | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Protection class: IP 68 → Insulation class: F → Thermal winding monitoring → Sealing chamber control → Max. fluid temperature: 40 °C → Free ball passage: 80 or 100 mm → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode with self-cooling motor: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 80 to 170 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Bidirectional mechanical seal → Heavy-duty motors (oil-filled and dry) ensure continuous duty even with non-immersed motor → Corrosion-resistant components | <ul style="list-style-type: none"> → Thermal motor monitoring → Sealing chamber monitoring → ATEX approval → Sheath current cooling | <ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Oil separation chamber with optional external monitoring |
| Special features | <ul style="list-style-type: none"> → Long service life → Sturdy construction → Slurping operation possible → Suitable for continuous duty (S1) → Ready-to-plug | <ul style="list-style-type: none"> → Self-cooling motor for the use in wet well and dry well installations → Corrosion-resistant stainless steel motor housing in 1.4404 → Patented non-clogging hydraulics → Longitudinal watertight cable inlet → Low weight | <ul style="list-style-type: none"> → Self-cooling motors for the use in wet well and dry well installation → Process security thanks to extensive monitoring devices → Special versions for abrasive and corrosive fluids → Low vibrations and long standstill times thanks to high-quality components → Customised versions are possible |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p> | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p> |



| Product range | Submersible sewage pumps | Submersible mixer | Treatment process |
|----------------------|--|--|---|
| Series | Wilo-EMU FA...RF | Wilo-Sevio MIX DM 50-2 | Wilo-Sevio ACT SD 101 |
| Field of application | Special applications, wastewater collection and transport, industrial process | Special applications, industrial process | Wastewater treatment, industrial process |
| Duty chart | | no illustration | no illustration |
| Design | Submersible sewage pumps made of cast stainless steel | Submersible mixer with single-stage planetary gear | Solids diffuser |
| Application | Pumping sewage with solid content in water treatment systems and industrial applications | Pumping of drilling mud on on-shore and off-shore installations | Gentle mixing process of biomass particles in the pumped fluid |
| Volume flow Q max. | 70 m ³ /h | Thrust: 1010 N | Circulation capacity 3300 – 4000 m ³ /h |
| Delivery head H max. | 30 m | | |
| Technical data | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 35 to 45 mm → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 90 °C → Single-stage planetary gear → Mechanical seal with SiC/SiC pairing → Permanently lubricated roller bearings → Max. immersion depth: 20 m | <ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C → Max. immersion depth: 20 m |
| Equipment/function | <ul style="list-style-type: none"> → Oil separation chamber with optional external monitoring | <ul style="list-style-type: none"> → Flexible installation via lowering device → Can be swivelled horizontally when installed with a lowering device → Single-stage planetary gear | <ul style="list-style-type: none"> → Height-adjustable suction pipe due to lowering device → Suction pipe with telescopic extension |
| Special features | <ul style="list-style-type: none"> → Sturdy version completely in stainless steel casting 1.4581 for the use in corrosive fluids → Process security thanks to extensive monitoring devices → Longitudinal watertight cable inlet → Low vibrations and long standstill times thanks to high-quality components | <ul style="list-style-type: none"> → Sturdy construction for fluid temperatures of up to 90 °C → Exchangeable planetary stage for adaptation of the propeller speed → Stainless steel propeller with high wear resistance → Ex approval as standard | <ul style="list-style-type: none"> → Careful introduction of the biomass carrier particles into the fluid → Higher volume penetration for optimising the cleaning process → Reduced energy costs thanks to an improved cleaning performance → Also with IE3 motor technology (on the basis of IEC 60034-30) → Retrofit option for existing installations |
| Information | <p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p> | Documentation on request | Documentation on request |



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