

Pioneering for You

wilo

Delivery range - Edition 2014 - 50 Hz

General overview

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



“Wilo doesn’t promise, it performs.”

Water supply and sewage disposal from one source.



With Wilo you have a strong partner in water supply and sewage disposal. We provide future-proof solutions from one source for all fields of application and offer targeted support during the planning of your projects. The durability, reliability and long service life of our pumps will not only convince you, but also your customers and clients.

www.wilo.com



Wilo-SiFire EN



Wilo-SiBoost Smart
Helix EXCEL



Wilo-RexaCut PRO



Wilo-RexaLift FIT L

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General overview

at a glance:

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Wilo

Cutting-edge technology and strong customer loyalty.

Wilo is one of the world's leading manufacturers of pumps and pump systems for heating, cooling and air-conditioning technology as well as water supply and sewage disposal. Ever since our formation in 1872, we have concentrated on researching, developing and producing new technologies. Our aim to offer customers all over the world excellent-quality products, top efficiency and maximum service lives combined with simple installation and operation, has made us an internationally renowned innovative leader for high-tech pumps, boasting 15 production sites, over 60 subsidiaries and about 7,500 employees in 50 countries.

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. Aside from developing world-class technology, a lot of attention also needs to be paid to our customers so that we can assert and expand our leading position on the German and international markets. This is why we continuously strive to make our customers' lives significantly easier and more efficient through our products and all-in-one solutions. Our "Pioneering for You" claim underlines this.



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**“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:

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 Wilo-LCC-Check:

At lcc-check.wilo.com, you can identify your pump system's saving potential and get recommendations for an optimal replacement pump.



App Store is a service mark of Apple Inc.



Android is a trademark of Google Inc.

As Webapp for all other operating systems
app.wilo.com

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



- 4 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 GIGA save energy – and facilitate my job as a consultant.”



Heating, air-conditioning, cooling

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



Wilo-Stratos GIGA



Intelligent temperature control

Wilo 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 Wilo-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.



Series modification



Series modification

Product range	Glandless premium high-efficiency pumps	Glandless standard high-efficiency pumps	Glandless premium high-efficiency pumps
Series	Wilo-Stratos PICO	Wilo-Yonos PICO Wilo-Yonos PICO-D	Wilo-Stratos Wilo-Stratos-D
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 or flange 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	4.5 m ³ /h	62 m ³ /h
Delivery head H max.	6.0 m	7.5 m	17 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) ≤ 0.23 (EEI ≤ 0.27 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)
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 indication of current power consumption in W and cumulative electricity consumption in kWh → Reset function for resetting 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: - Versions with short port-to-port length 130 mm 	<ul style="list-style-type: none"> → EC motor → Control modes: Δp-c, Δp-v, Δp-T → 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)
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 → Large LC display for showing the current power consumption and cumulated kWh → Electrical connection with the Wilo-Connector - no tools needed → Additional functions: Dynamic Adapt, ventilation 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 ventilation 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"> → Use in heating, cooling and air-conditioning systems from -10 °C to +110 °C → Highest efficiency thanks to ECM technology → Operation and access from the front to the terminal room, variable installation positions, display independent of the installation position → Easy installation and commissioning thanks to red-button technology → Communication-capable for building automation in all system concepts thanks to retrofitable interface modules
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 modification

Product range	Glandless standard high-efficiency pumps	Glanded high-efficiency pumps in in-line design	Glanded energy-saving pumps in in-line design
Series	Wilo-Yonos MAXO Wilo-Yonos MAXO-D	Wilo-Stratos GIGA	Wilo-VeroLine-IP-E Wilo-VeroTwin-DP-E
Field of application	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process
Duty chart			
Design	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	Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment
Application	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.	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.	25 m ³ /h	120 m ³ /h	170 m ³ /h
Delivery head H max.	12 m	52 m	30 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.23 → Protection class IP X4D → Nominal diameter Rp 1 to DN 65 → 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 (for the series) → 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) up to ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 10 bar (special version: 16 bar)
Equipment/function	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v → LED display for setting the required delivery head → Quick electrical connection with Wilo-Connector → Motor protection, fault signal light and contact for collective fault signal → Pump housing with cathoretic coating for external corrosion protection → Combination flanges PN 6/PN 10 (for DN 40 to DN 65) 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Lantern → Coupling → Electronically controlled EC motor 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Motor with integrated electronic control → DP-E with switchover valve
Special features	<ul style="list-style-type: none"> → Use in heating, cooling and air-conditioning systems from -20 °C to +110 °C → Highest efficiency thanks to ECM technology → LED display for showing the set delivery head and error messages → Quick and convenient electrical connection with the Wilo Plug → Easiest commissioning and operation → System availability is ensured thanks to collective fault signals on all types 	<ul style="list-style-type: none"> → Innovative high-efficiency pump for highest overall efficiency based on a new design for Wilo glanded pumps → Highly efficient EC motor (efficiency higher than IE4 limit values according to IEC TS 60034-31 Ed.1) → Highly efficient hydraulics which is optimally adapted to the EC motor technology, with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 according to ErP Directive 2009/125/EC [Commission Regulation (EU) 547/2012] → Control range is up to three times higher than for conventional electronically controlled pumps 	<ul style="list-style-type: none"> → Energy savings thanks to integrated electronic performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection (PTC) with trip electronics
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 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	Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment	Electronically controlled glanded single pump in monobloc design with flange connection and automatic power adjustment	Glanded pump in in-line design with screwed connection or flange connection
Application	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 heating water (in accordance with VDI 2035), water-glycol mixtures, cooling water and cold water 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.	800 m ³ /h	380 m ³ /h	245 m ³ /h
Delivery head H max.	65 m	85 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) up to ≥ 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) up to ≥ 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) up to ≥ 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"> Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Coupling → Motor with integrated electronic control → DL-E with switchover valve 	<ul style="list-style-type: none"> Single-stage low-pressure centrifugal pump in monobloc design (axial suction port, radial pressure port) with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R¹/₈ → Lantern → Coupling 	<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 R¹/₈ → Motor with one-piece shaft → DPL with switchover valve
Special features	<ul style="list-style-type: none"> → Energy savings thanks to integrated electrical performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated dual pump management Different operating modes: main/standby operation and parallel operation → Integrated full motor protection (PTC) with trip electronics 	<ul style="list-style-type: none"> → Energy savings thanks to integrated electrical performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated full motor protection (PTC) with trip electronics → User-friendly thanks to performances and main dimensions according to EN 733 (DIN for norm pumps) 	<ul style="list-style-type: none"> → High corrosion protection due to cathoretic coating → Standard condensate drain holes in the motor housings and lanterns → Series version: Motor with one-piece shaft → N Version: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional mechanical seal with forced flushing → 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>



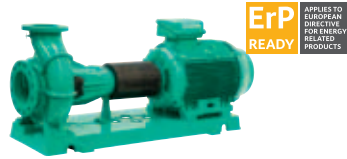
Series modification



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 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	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	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.	1,150 m ³ /h	80 m ³ /h	13 m ³ /h
Delivery head H max.	110 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) up to ≥ 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 ≥ 0.1 (for the series) → 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	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor → DL with switchover valve 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Lantern → Motor with special shaft 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → 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 drain holes in the motor housings → Flexible use in air-conditioning and cooling systems, with application advantages like targeted condensate draining by optimised lantern design (patented) → High corrosion protection due to cathoretic coating → High availability worldwide of standard motors (according to Wilo specifications) and standard mechanical seals → Main-/standby operation or peak-load operation (with additional external device) 	<ul style="list-style-type: none"> → Bidirectional, self-cooling mechanical seal → Great variety of applications due to a wide fluid temperature range without additional wear parts 	<ul style="list-style-type: none"> → Worldwide availability of the standard motors used → Bidirectional mechanical seal with forced flushing
Information	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com



Product range	Glanded monobloc pumps	Glanded monobloc pumps	Standard glanded pumps
Series	Wilo-CronoBloc-BL	Wilo-BAC	Wilo-CronoNorm-NL
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, water supply, industrial process
Duty chart			
Design	Glanded pump in monobloc design with flange connection	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
Application	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	For pumping water-glycol mixtures with a glycol volume proportion of 20 to 40 %	<ul style="list-style-type: none"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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.	360 m ³ /h	85 m ³ /h	650 m ³ /h
Delivery head H max.	105 m	25 m	150 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) up to ≥ 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 -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.4 (for the series) → 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 (for the series) → 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	<ul style="list-style-type: none"> Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor 	<ul style="list-style-type: none"> Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port 	<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 intermediate sleeve
Special features	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → High corrosion protection thanks to cathoretic coating of the cast iron components → Standard condensate drain holes in the motor housings → High availability worldwide of standard motors (according to Wilo specification) and mechanical seals → User-friendly thanks to performances and main dimensions according to EN 733 (DIN for norm pumps) 	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Pump housing in plastic material version → Version with Victaulic or threaded connection (BAC 70/135... only with Victaulic connection) 	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Bidirectional mechanical seal with forced flushing → Low NPSH values, best cavitation properties → Shaft coupling with or without intermediate sleeve → Shaft bending fulfils requirements of ISO 5199
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com



Product range	Standard glanded pumps	Axially split case pumps	System separation for underfloor heating
Series	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG	Wilo-SCP	Wilo-Safe
Field of application	Heating, air-conditioning, cooling, water supply, industrial process	Cooling, air-conditioning, water distribution/boosting, industrial process	Heating, air-conditioning, cooling
Duty chart			no illustration
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	Wilo-Safe: Complete system/basic device for hydraulic separation of floor heating systems
Application	<ul style="list-style-type: none"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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. 	Wilo-Safe: Floor heating systems of all kinds, system separation for oxygen-rich fluids
Volume flow Q max.	2,800 m³/h	3,400 m³/h	
Delivery head H max.	140 m	245 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 ≥ 0.1 (for the series) → 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"> → Max. operating pressure 6 bar → Perm. temperature range +20 °C to +90 °C → Mains connection 1~230 V, 50 Hz → Heat exchanger 5–24 kW
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 	<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 	<ul style="list-style-type: none"> → The complete system is ready-mounted and pressure-checked → Consisting of: <ul style="list-style-type: none"> - WSG 5-24 Wilo-Safe basic unit, - WSA 5-24 Wilo-Safe connection kit, - WSM 5-24 Wilo-Safe mixer, - high-efficiency pumps - Yonos PICO 25/1-6 and Yonos PICO 25/1-6-RG
Special features	<ul style="list-style-type: none"> → Motors with higher efficiency as standard; motors with IE2 technology if rated motor power is 0.75 kW or more → Worldwide obtainability of standard motors and mechanical seals 	<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"> → System separation made of corrosion-resistant materials, completely mounted and pressure-tested → Integrated high-efficiency pumps Yonos PICO, strong in start-up and energy-saving → Extremely installation-friendly thanks to flat-sealing screw connections → Installation possible from the right and the left → Insulation shell serves as transport protection, installation support and heat insulation
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com	Online catalogue www.wilo.com Building Services catalogue, Heating, Air-Conditioning, Cooling



NEW
Wilo-SC-HVAC system



Product range	Condensate lifting units	Control devices	Pump control
Series	Wilo-DrainLift Con	Wilo-CC/CcE-HVAC system Wilo-SC/SCe-HVAC system Wilo-VR-HVAC system	Wilo-IR-Stick, IR-Monitor Wilo-IF-Module Stratos/Wilo-IF-Module Wilo-Protect-Module C
Field of application	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling
Duty chart	<p>Wilo-DrainLift Con</p>	no illustration	no illustration
Design	Automatic condensate lifting unit		
Application	For pumping condensate out of → Heat generators with condensing boiler technology → Air-conditioning and cooling systems (such as refrigerators, refrigerated display cases and evaporators)	Switchgear for controlling 1 to 6 pumps	Wilo-Control products for connecting pumps to building automation
Volume flow Q max.	0.6 m ³ /h	–	–
Delivery head H max.	5.4 m	–	–
Technical data	→ 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	→ 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	Wilo-CC-HVAC system → Comfort control system for 1 to 6 pumps switched in parallel, with fixed speed Wilo-CcE-HVAC system → Comfort control system for 1 to 6 pumps with integrated electronics/speed control or external frequency converter control Wilo-VR-HVAC system → Vario controller for 1 to 4 pumps switched in parallel, with integrated speed control Wilo-SC-HVAC system → 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	Wilo-IR-Stick/IR-Monitor → Remote control with infrared interface for electronically controlled Wilo pumps Wilo-IF-Modules Stratos/IF-Modules → Plug-in modules for BA connection of Stratos, Stratos GIGA, IP-E, DP-E, IL-E/DL-E, BL-E, MHIE, MVIE, Helix VE... Wilo-Protect-Module C → Plug-in module for BA connection of uncontrolled TOP-STG/STGD and TOP-Z pumps
Special features	→ 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	→ Special versions on request	–
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 high-efficiency pumps	Standard glandless pumps	Standard glandless pumps
Series	Wilo-Stratos ECO-STG	Wilo-Star-STG	Wilo-TOP-STG Wilo-TOP-STGD
Field of application	Solar thermal and geothermal energy systems	Solar thermal and geothermal energy systems	Solar thermal and geothermal energy systems
Duty chart			
Design	Glandless circulation pump with screwed connection, EC motor and automatic power adjustment	Glandless circulation pump with screwed connection	Glandless circulation pump with screwed connection or flange connection
Application	Circulation in solar thermal and geothermal energy systems	Circulation in solar thermal and geothermal energy systems	Circulation in solar thermal and geothermal energy systems
Volume flow Q max.	2.5 m ³ /h	5.5 m ³ /h	52 m ³ /h
Delivery head H max.	5 m	11 m	16 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature +15 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp 1 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C, in short-term operation (2 h) +120 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp ½, Rp 1 and Rp 1¼ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +110 °C, in short-term operation (2 h) +130 °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 95 → Max. operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar
Equipment/function	<ul style="list-style-type: none"> → EC motor → Control modes Δp-v and Δp-c → Automatic setback operation → Blocking-current proof motor → Cable inlet on both sides for easy installation → Quick connection with spring clips → Connection for building automation (BA) → Pump housing with cataphoretic coating for external corrosion protection → RG version with red brass housing → 130 version with overall length of 130 mm 	<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 	<ul style="list-style-type: none"> → 2 or 3 speed stages, can be set manually (depending on type) → Combination flange PN 6/PN 10 (DN 40 to DN 65) → Pump housing with cataphoretic coating for external corrosion protection → Full motor protection with integrated trip electronics → Fault signal light and contact for collective fault signal (depending on type) → Rotation monitoring control lamp (for 3-pumps only) → Extendible motor protection, signal and display functions → Cable inlet on both sides for easy installation
Special features	<ul style="list-style-type: none"> → Up to 80 % electricity savings compared to uncontrolled circulation pumps → Only 5.8 W min. power consumption → Pump housing with cataphoretic (KTL) coating to avoid corrosion when condensate builds up → BA connection: to connect to external monitoring systems (e.g. building automation BA or DDC systems) 	<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 	<ul style="list-style-type: none"> → Can be used in solar and geothermal systems from -20 °C to +110 °C → Manual performance adaptation with 2 or 3 speed stages (depending on the model) → Availability of the system is ensured thanks to collective fault signal (depending on the model)
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	Submersible pumps	Glandless high-efficiency pumps	Glandless high-efficiency pumps
Series	Wilo-Sub TWU 4 ...-GT	Wilo-Star-Z NOVA	Wilo-Stratos ECO-Z Wilo-Stratos ECO-Z ... BMS
Field of application	Geothermal energy systems	Secondary hot water	Secondary hot water
Duty chart			
Design	Submersible pump, multistage	Glandless circulation pump with screwed connection and blocking-current proof synchronous motor	Glandless circulation pump with screwed connection and automatic power adjustment
Application	Water supply from boreholes, wells and rainwater storage for geothermal applications	Secondary hot water circulation systems in industry and in building services	Secondary hot water circulation systems in industry and in building services
Volume flow Q max.	6 m ³ /h	0.4 m ³ /h	2.5 m ³ /h
Delivery head H max.	33 m	0.9 m	5 m
Technical data	<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 	<ul style="list-style-type: none"> → Fluid temperature: secondary hot water up to water hardness 3.56 mmol/l (20 °d): max. +65 °C, in short-term operation (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: secondary hot water up to water hardness 3.2 mmol/l (18 °d): max. +65 °C, in short-term operation (2 h) up to +70 °C → Mains connection 1~230 V, 50 Hz → Protection class IP 44 → Nominal diameter Rp 1 → Max. operating pressure 10 bar
Equipment/function	<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 	<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 connecting cable with shockproof plug (Star-Z NOVA C only) → Including thermal insulation 	<ul style="list-style-type: none"> → EC motor → Control mode Δp-v (BMS version Δp-v and Δp-c) → Automatic setback operation → Blocking-current proof motor → Cable inlet on both sides for easy installation → Quick connection with spring clips → Thermal insulation shell
Special features	<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 	<ul style="list-style-type: none"> → Low power consumption of only 2 to 4.5 W thanks to synchronous motor → Extended field of application in calcareous water: up to 20° dH → Quick and safe electrical connection without any tools thanks to the 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"> → Corrosion-resistant pump housing made of red brass for systems where oxygen entry is possible → Optimal handling due to operation from the front and variable installation positions → Automatic adaptation of the pump performance in volume flow variable secondary hot water circulation systems → Very high starting torque for a safe start-up → Min. electronic power consumption only 5.8 W
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	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 high-efficiency pumps	Standard glandless pumps	Standard glandless pumps
Series	Wilo-Stratos-Z Wilo-Stratos-ZD	Wilo-Star-Z Wilo-Star-ZD	Wilo-TOP-Z
Field of application	Secondary hot water	Secondary hot water	Secondary hot water
Duty chart			
Design	Glandless circulation pump with screwed connection or flange connection, EC motor and automatic power adjustment	Glandless circulation pump with screwed connection	Glandless circulation pump with screwed connection or flange connection
Application	Secondary hot water circulation systems and similar systems in industry and in building services	Secondary hot water circulation systems in industry and in building services	Secondary hot water circulation systems in industry and in building services
Volume flow Q max.	41 m ³ /h	4.8 m ³ /h	65 m ³ /h
Delivery head H max.	12 m	6.0 m	9 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature: secondary hot water up to a water hardness of 3.56 mmol/l (20 °d) max. +80 °C → Heating water -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.23 (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 	<ul style="list-style-type: none"> → Fluid temperature: secondary hot water up to water hardness 3.2 mmol/l (18 °d) max. +65 °C → In short-term operation (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) → Nominal diameter Rp ½, Rp 1 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: secondary hot water up to a water hardness of 3.56 mmol/l (20 °d) 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 90 → Max. operating pressure Screw-end pumps 10 bar Flange-end pumps 6/10 bar
Equipment/function	<ul style="list-style-type: none"> → EC motor → Control modes: Δp-c, Δp-v, Δp-T → 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) 	<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 secondary 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
Special features	<ul style="list-style-type: none"> → Secondary hot water applications up to 20 °dH water hardness (T_{max} = +80 °C) → Operation and access to the terminal room from the front, variable installation position, display independent of the installation position → Easy installation and commissioning thanks to red-button technology → Corrosion-resistant pump housing made of red brass for system with possible oxygen ingress → Communication-capable for building automation in all system concepts thanks to retrofitable interface modules 	<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"> → Can be used in secondary hot water applications up to 20 °dH and T_{max} = +80 °C (18 °dH and +65 °C for TOP-Z 20/5 and TOP-Z 25/6) → Manual performance adaptation with 3 speed stages → Availability of the system is ensured by collective fault signal (depending on the model)
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	Glanded special pumps
Series	Wilo-Veroline-IP-Z
Field of application	Secondary hot water
Duty chart	
Design	Glanded circulation pump in in-line design with screwed connection
Application	For pumping potable 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.	5 m ³ /h
Delivery head H max.	4.5 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature: secondary hot water up to a water hardness of 4.99 mmol/l (28 °d) max. +65 °C → In short-term operation (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"> → Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Screwed connection → Motor with one-piece shaft
Special features	<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	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Heating, air-conditioning, cooling</p>

Wilo-Yonos MAXO



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 ranges 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



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 → Nominal diameter 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 → With Wilo-Protect-Modul C: -20 °C to +110 °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 or 16 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"> → Can be used in heating systems and in air-conditioning/cooling systems from -20 °C to +130 °C → Manual performance adaptation with 2 or 3 speed stages (depending on the model) → Availability of the system is ensured by collective fault signal (depending on model) 	<ul style="list-style-type: none"> → Can be used in heating systems and in air-conditioning/cooling systems from -20 °C to +130 °C → Manual performance adaptation with 3 speed stages → Availability of the system is ensured by collective fault or run system with retrofittable Protect module
Information	<p>Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling</p>	<p>Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling</p>	<p>Online catalogue www.wilo.com Catalogue Building Services Heating, Air-Conditioning, Cooling</p>

“The entire Wilo-Helix range already meets the high demands of the ErP Directive.”



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

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.

Skyper tower, Frankfurt am Main, Germany. (Source: Skyper/Chris Kister)
Intelligent pressure boosting.

The task: Demand-oriented, energy-efficient potable water supply – with high pressure for more than 38 floors and a height of up to 153 metres.

The solution: Pressure boosting systems from Wilo ensure intelligent water supply with the highest technological standards.



**Highlands Water Project,
Lesotho, Africa.**
Demand-oriented operation.

The task: To transfer water from rain-rich Lesotho to the drier industrial region of South Africa around Johannesburg. The water is taken from the Mohale Dam and transported 32 km to the Katse Dam.
The solution: Wilo supplied products including two submersible pumps with throttling to counter the large differences in water level.




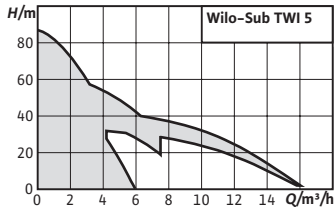
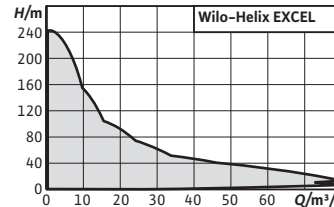


Product range	Rainwater utilisation systems	Rainwater utilisation systems	Rainwater utilisation systems
Series	Wilo-RainSystem AF Basic Wilo-RainSystem AF Comfort	Wilo-RainSystem AF 150	Wilo-RainSystem AF 400
Field of application	Rainwater utilisation	Rainwater utilisation	Rainwater utilisation
Duty 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 potable water in conjunction with rainwater storage tanks or reservoirs	Rainwater utilisation in multi-family houses and small businesses for saving potable water in conjunction with rainwater storage tanks or reservoirs	Hybrid system for commercial and industrial rainwater utilisation for saving potable 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 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	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	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	Non self-priming water-supply unit with frequency converter	Cistern pumps	Vertical, multistage centrifugal pumps
Series	Wilo-EMHIL	Wilo-Sub TWI 5/TWI 5-SE Wilo-Sub TWI 5-SE PnP	Wilo-Helix EXCEL
Field of application	Rainwater utilisation, water distribution/boosting, raw water intake	Rainwater utilisation, water distribution/boosting, raw water intake	Water distribution/boosting
Duty chart			
Design	Non self-priming water-supply unit with frequency converter	Submersible pumps	Non self-priming, highly efficient, fully stainless steel high-pressure multistage centrifugal pump with EC motor with integrated high-efficiency drive
Application	<ul style="list-style-type: none"> → Water supply → Rainwater utilisation → Irrigation and spraying 	<ul style="list-style-type: none"> For domestic water supply from wells, rainwater storage tanks, and reservoirs. For irrigation, sprinkling, rainwater utilisation or for pumping out water 	<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.	55 m ³ /h	16 m ³ /h	58 m ³ /h
Delivery head H max.	8 m	88 m	243 m
Technical data	<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 	<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 1¼ → Suction-side connection for SE version Rp 1¼ 	<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"> → Including 1.4 m mains connection and plug → Including EMC filter → With built-in pressure and flow controllers 	<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"> → Impellers, diffusers 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"> → 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 	<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"> → Highly efficient EC motor (better than IE4 efficiency value) → Integrated electronic control "High Efficiency Drive" → Easy operation thanks to proven re-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 extension



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	145 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 16/25/30 bar → Max. inlet pressure 10 bar → Protection class IP 55 → Minimum efficiency index MEI ≥ 0.7 	<ul style="list-style-type: none"> → Fluid temperature range: -20 to 120 °C → Max. operating pressure: 16 bar → Protection class: IP 55 → Round flange in accordance with ISO 2531 and ISO 7005 → Minimum efficiency index MEI ≥ 0.7
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 → IE2/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/Pmax: 30 bar with round flanges - Helix V 22 - 52, PN 16 and PN 25/Pmax: 30 bar with round flanges → IE2/IEC standard three-phase AC motor 	<ul style="list-style-type: none"> → Corrosion-resistant impellers, diffusers 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 installation into existing pipework with Helix V pumps → Special, firmly attached transport eyelets allow a safe pump transport
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



Product range	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
Series	Wilo-Multivert MVIE	Wilo-Multivert MVI	Wilo-Multivert MVISE
Field of application	Water distribution/boosting, professional irrigation/agriculture	Water distribution/boosting, professional irrigation/agriculture	Water distribution/boosting
Duty chart			
Design	Non self-priming multistage pump with integrated frequency converter	Non self-priming multistage pump	Non self-priming multistage pump with glandless pump motor and integrated frequency converter
Application	<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 	<ul style="list-style-type: none"> → Water supply and pressure boosting
Volume flow Q max.	145 m ³ /h	155 m ³ /h	14 m ³ /h
Delivery head H max.	245 m	240 m	110 m
Technical data	<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) 	<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
Equipment/function	<ul style="list-style-type: none"> → Stainless steel pump in in-line design → Versions <ul style="list-style-type: none"> - PN 16 with oval flanges - PN 16/25 with round flange - Victaulic connections depending on pump type → Integrated frequency converter → IE2/IEC standard motor, 2-pole, AC or DC version. Single-phase AC motor with integrated 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 → IE2/IEC standard motor, 2-pole 	<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
Special features	<ul style="list-style-type: none"> → Large control range → MVIE 2..-8.. → All parts that come in contact with the fluid are made of stainless steel → MVIE 70..-95.. in stainless steel or with pump housing made of cathoretic-coated cast iron → All relevant components have KTW and WRAS approval → Sizes MVIE 16.. - 52.. only outside the EU member states 	<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 cathoretic-coated cast iron → All relevant components have KTW and WRAS approval → Sizes MVI 16.. - 52.. only outside the EU member states 	<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
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>



Product range	Vertical, multistage centrifugal pumps	Horizontal, multistage centrifugal pumps	Horizontal, multistage centrifugal pumps
Series	Wilo-Multivert MVIS	Wilo-Economy MHIE	Wilo-Economy MHI
Field of application	Water distribution/boosting	Water distribution/boosting	Water distribution/boosting
Duty chart			
Design	Non self-priming multistage pump with glandless pump motor	Non self-priming multistage pump with integrated frequency converter	Non self-priming multistage pump
Application	→ Water supply and pressure boosting	→ Water supply and pressure boosting → Industrial circulation systems → Process engineering → Cooling water circulation systems → Washing and sprinkling systems	→ Water supply and pressure boosting → Commerce and industry → Cooling water circulation systems → Washing and sprinkling systems
Volume flow Q max.	14 m ³ /h	32 m ³ /h	25 m ³ /h
Delivery head H max.	110 m	88 m	70 m
Technical data	→ Fluid temperature -15 to +50 °C → Operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP 44	→ Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP 54	→ Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP 54
Equipment/function	→ Stainless steel pump in in-line design → Three-phase AC motor in glandless pump design	→ 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	→ Stainless steel pump in monobloc design → Threaded connection → Single-phase or three-phase AC motor → Single-phase AC motor with integrated thermal motor protection
Special features	→ 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	→ Easy commissioning → All parts that come in contact with the fluid are made of stainless steel → Compact design → Integrated frequency converter → Full motor protection → All relevant components have KTW and WRAS approval	→ All parts that come in contact with the fluid are made of stainless steel → Compact design → All relevant components have KTW and WRAS approval
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply



Series extension
SiBoost Smart 1 Helix VE

Product range	Horizontal, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Single-pump pressure boosting systems with speed-controlled pump
Series	Wilo-Economy MHIL	Wilo-Multivert MVIL	Wilo-Comfort-N-Vario COR-1 MVICE ... Wilo-Comfort-Vario COR-1 MVIE ... Wilo-SiBoost Smart 1 Helix VE ... Wilo-Comfort-Vario COR-1 MHIE...
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	Water-supply units with a non self-priming, high-pressure multistage centrifugal pump with integrated speed control of the series MVICE, MVIE, Helix VE or MHIE
Application	<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 	<ul style="list-style-type: none"> For fully automatic water supply in inlet mode from the public water supply network or from a reservoir → For pumping potable water, process water, cooling water, water for fire-fighting or other service water
Volume flow Q max.	13 m³/h	13 m³/h	165 m³/h
Delivery head H max.	68 m	135 m	160 m
Technical data	<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) 	<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
Equipment/function	<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 	<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
Special features	<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 → All relevant components have KTW and WRAS approval 	<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 → All relevant components have KTW and WRAS approval 	<ul style="list-style-type: none"> For systems with MVICE pump → Up to 20 dB(A) quieter than comparable systems For systems with Helix VE pump → Optimised hydraulics → Cartridge mechanical seal
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 extension
SiBoost Smart Helix VE,
Helix EXCEL

Product range	Single-pump pressure boosting systems	Single-pump pressure boosting system with system separation	Multi-pump pressure boosting systems with speed-controlled pumps or base-load pump
Series	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	Wilo-SiBoost Smart Helix V Wilo-SiBoost Smart Helix VE Wilo-SiBoost Smart Helix EXCEL
Field of application	Water distribution/boosting	Water distribution/boosting	Water distribution/boosting
Duty chart			
Design	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	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
Application	For fully automatic water supply in inlet mode from the public water supply network or from a reservoir → For pumping potable 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 potable 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 potable water and process water, cooling water, water for fire-fighting or other service water
Volume flow Q max.	135 m ³ /h	8 m ³ /h	360 m ³ /h
Delivery head H max.	160 m	110 m	158 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 → 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 	<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)
Equipment/function	<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 	<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
Special features	<ul style="list-style-type: none"> For systems with MVIS 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 	<ul style="list-style-type: none"> → High-efficiency pump hydraulics → IE2 standard motors (IE3 / option), systems with 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
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 with speed-controlled pumps

Multi-pump pressure boosting systems with speed-controlled pumps or base-load pump

Multi-pump pressure boosting systems

Series	Wilo-Comfort-Vario-COR 2-4 MHIE ... /VR Wilo-Comfort-N-Vario-COR 2-4 MVISE ... /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 ... /CCe	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
Field of application	Water distribution/boosting	Water distribution/boosting	Water distribution/boosting
Duty chart			
Design	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, multistage centrifugal pumps switched in parallel	Pressure boosting system with 2 to 4 respectively 2 to 6 non self-priming, stainless steel, high-pressure, multistage 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 potable 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 potable 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 potable water and process water, cooling water, water for fire-fighting or other service water
Volume flow Q max.	650 m ³ /h	800 m ³ /h	800 m ³ /h
Delivery head H max.	159 m	160 m	160 m
Technical data	<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 	<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
Equipment/function	<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 	<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 l, PN 16, on pressure side → Pressure sensor, on the discharge side
Special features	<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 <p>For systems with MVISE pumps → Up to 20 dB(A) quieter than comparable systems</p>	<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 → Up to 20 dB(A) quieter than comparable systems</p>	<ul style="list-style-type: none"> → Compact system in accordance of DIN 1988 (EN 806) <p>For systems with MVIS pumps → Up to 20 dB(A) quieter than comparable systems</p>
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 extension
FLA Compact-1 Helix V 22
FLA Compact-2 Helix V 16, 22



Series extension
Single pump models
75 kW up to 250 kW

Product range

Fire-fighting systems for wall hydrant installations according to DIN 14462

Fire fighting systems for wall hydrant installations according to DIN 14462

Fire fighting systems for sprinkler systems according to EN 12845

Series	Wilo-FLA	Wilo-FLA Compact	Wilo-SiFire EN
Field of application	Fire fighting	Fire fighting	Fire fighting
Duty chart			
Design	Pressure boosting system for fire extinguishing applications with 1 to 2 autonomously operating, non self-priming, stainless steel, high-pressure, multistage centrifugal pumps	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
Application	For supply of fire extinguishing water from fire hose reels in accordance with DIN 14462 from 04/2009	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
Volume flow Q max.	100 m ³ /h	30 m ³ /h	750 m ³ /h
Delivery head H max.	159 m	142 m	128 m
Technical data	<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 	<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
Equipment/function	<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 l, PN 16, on pressure side → Pressure switch, on the discharge side 	<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
Special features	<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 	<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
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>



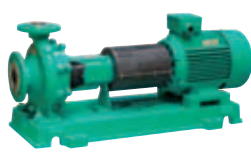
Product range	Submersible pumps	Submersible pumps	Submersible pump system
Series	Wilo-Sub TWU 3 Wilo-Sub TWU 3...-HS	Wilo-Sub TWU 4 ... Wilo-Sub TWU 4 ...-QC Wilo-Sub TWU 4 ...-GT	Wilo-Sub TWU 3 ... Plug & Pump Wilo-Sub TWU 4 ... Plug & Pump
Field of application	Rainwater utilisation, raw water intake	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 m ³ /h	22 m ³ /h	6 m ³ /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</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	Submersible pumps	Submersible pumps	Sprinkler pumps with VdS approval
Series	Wilo-Sub TWU 6 ... Wilo-Sub TWU 8 ...	Wilo-Sub TWI 4 ... Wilo-Sub TWI 6 ... Wilo-Sub TWI 8 ... Wilo-Sub TWI 10 ...	Wilo-EMU sprinkler pumps
Field of application	Raw water intake, professional irrigation/agriculture	Rainwater utilisation, water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Fire fighting
Duty chart			
Design	Submersible pump, multistage	Submersible pump, multistage	Submersible pump with sectional construction
Application	Water supply from boreholes and rainwater storage tanks; sprinkling, irrigation and pressure boosting; for lowering the ground water level; pumping of water without long-fibre or abrasive components	Water supply (including potable 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
Volume flow Q max.	132 m ³ /h	165 m ³ /h	580 m ³ /h
Delivery head H max.	380 m	500 m	140 m
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Fluid temperature: 3~30 °C → Minimum flow rate at motor: 0.16 m/s (with 4" motors = 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 6 ... = 250 m - TWU 8 ... = 350 m → Minimum efficiency index MEI: ≥ 0.1 (for the series TWU 6) 	<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 → Minimum 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
Equipment/function	<ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Three-phase motor → Hermetically sealed motors 	<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
Special features	<ul style="list-style-type: none"> → Impellers made of bronze → Integrated non-return valve → Rewindable motor 	<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 	<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
Information	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> <p>Water Management catalogue: Water supply – Raw water intake</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> <p>Water Management catalogue: Water supply – Raw water intake</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p>



Product range	Submersible pumps	Submersible pumps	Vertical turbine pumps
Series	Wilo-EMU 6" series Wilo-EMU 8" series Wilo-EMU 10"...24" series	Wilo-EMU polder pumps	Series VMF, CNE, VAF
Field of application	Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process	Water distribution/boosting, industrial process
Duty chart			no illustration
Design	Submersible pump with sectional construction	Polder pump	Vertical turbine pumps for dry well installation with submerged axial or semi-axial hydraulics
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	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
Volume flow Q max.	2,400 m ³ /h	1,200 m ³ /h	40,000 m ³ /h
Delivery head H max.	560 m	160 m	450 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: 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 	<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"> → 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 → 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 	<p>For types of installation with pressure port, for concealed floor, floor-mounted or twin-ceiling installation</p> <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"> → Sturdy waterworks version in cast iron or zinc-free bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing for minimising noise and vibrations → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency 	<ul style="list-style-type: none"> → 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 	<ul style="list-style-type: none"> → Minimum surface area needed → High hydraulic efficiency → Submerged pump hydraulics → Design to order as per customer specifications
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>Water Management catalogue: Water supply – Raw water intake</p>	Documentation on request



Product range	Standard glanded pumps	Standard glanded pumps	Axially split case pumps
Series	Wilo-CronoNorm-NL	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG	Wilo-SCP
Field of application	Heating, air-conditioning, cooling, water supply, industrial process	Heating, air-conditioning, cooling, water supply, industrial process	Cooling, air-conditioning, water distribution/boosting, industrial process
Duty chart			
Design	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	Low-pressure centrifugal pump with axially split housing mounted on a baseplate
Application	<ul style="list-style-type: none"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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.
Volume flow Q max.	650 m ³ /h	2,800 m ³ /h	3,400 m ³ /h
Delivery head H max.	150 m	140 m	245 m
Technical data	<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 (for the series) → 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 ≥ 0.1 (for the series) → 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
Equipment/function	<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 intermediate sleeve 	<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 	<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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13
Special features	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Bidirectional mechanical seal with forced flushing → Low NPSH values, best cavitation properties → Shaft coupling with or without intermediate sleeve → Shaft bending fulfils requirements of ISO 5199 	<ul style="list-style-type: none"> → Motors with higher efficiency as standard; motors with IE2 technology if rated motor power is 0.75 kW or more → Worldwide obtainability of standard motors and mechanical seals 	<ul style="list-style-type: none"> → Higher capacities up to 17,000 m³/h on request → Special motors and other materials on request
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com



Product range	Self-priming drainage pumps	Pedestal pumps	Submersible sewage pumps
Series	Wilo-Drain LP Wilo-Drain LPC	Wilo-Drain VC	Wilo-EMU KPR ...
Field of application	Water distribution/boosting, professional irrigation/agriculture, wastewater collection and transport, dewatering (including flood control)	Professional irrigation/agriculture, special applications, dewatering, industrial process	Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering
Duty chart			
Design	Self-priming drainage pumps for dry well installation	Vertical drainage pumps	Axial submersible pump with glanded motor for use in pipe sumps
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 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.	60 m ³ /h	14 m ³ /h	9,500 m ³ /h
Delivery head H max.	29 m	20 m	8.4 m
Technical data	<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 	<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	→ Portable self-priming centrifugal pump	→ Attached float switch	→ Heavy-duty version made of cast iron
Special features	<ul style="list-style-type: none"> → Long service life → Sturdy construction → Easy operation → Flexible use 	<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>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 – Wastewater treatment</p>

Wilo-SiFire EN

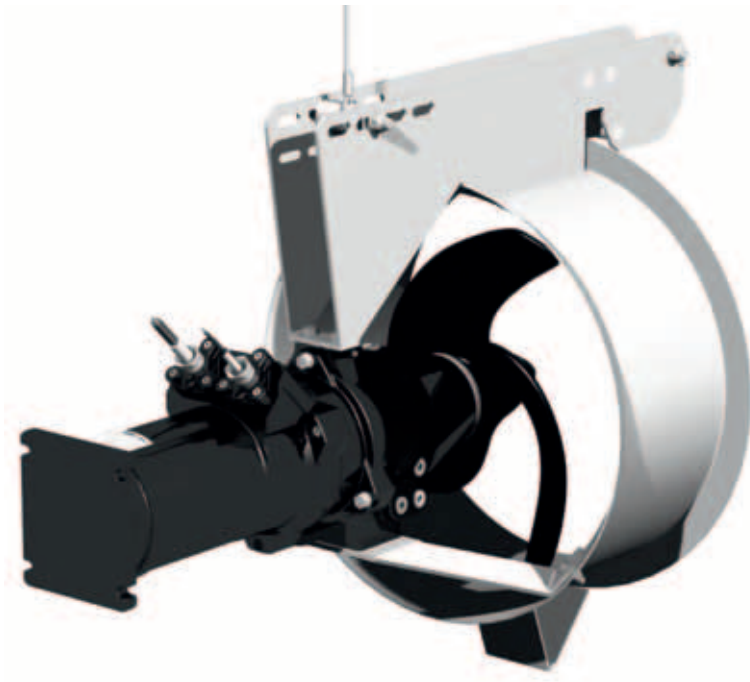


“The high reliability of Wilo products means they excel even in unusual installation locations.”



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-EMU RZP recirculation pumps

Safeguarding water circulation

Wilo recirculation pumps for special applications.

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 modular recirculation pumps.

Wilo recirculation pumps are used primarily in wastewater treatment plants to pump nitrogenous wastewater or sludge. In addition, these pumps can also be used in amusement parks to ensure continuous water circulation. In contrast to submersible sewage pumps for wet

or dry well installation, recirculation pumps do not require a special pump sump because they can be connected directly to the piping. They also feature higher efficiency and lower power costs. Furthermore, they require a bare minimum of installation and removal work for assembly and maintenance. It all pays off, not only at the start, but in the long term as well.

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



Wastewater treatment plant

The task: For biological treatment, nitrogenous wastewater must run through certain purification stages cyclically – requiring it to be pumped multiple times from one tank into another.

The solution: Wilo recirculation pumps pump nitrate-rich wastewater against the natural fall of the wastewater treatment plant site, from nitrification tanks back into denitrification tanks. The volume and loading of the pumped fluid is regulated using a frequency converter.



Amusement park

The task: Water rides with inclines and declines require a continuous flow of water to generate a “stream” on which the boats can glide as they are pulled up and dropped down.

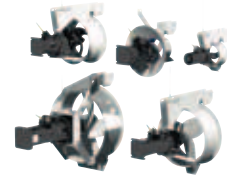
The solution: Wilo recirculation pumps to pump large volumes of water to low heights.



Product range	Submersible pumps	Submersible drainage pumps	Pedestal pumps
Series	Wilo-EMU 8" series Wilo-EMU 10"...24" series	Wilo-Drain TMT Wilo-Drain TMC	Wilo-Drain VC
Field of application	Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Special applications, dewatering, industrial process	Professional irrigation/agriculture, special applications, dewatering, 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 m³/h	22 m³/h	14 m³/h
Delivery head H max.	560 m	13 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 5 m → Fluid temperature 95 °C, 65 °C non-immersed → Cable length 10 m → Free ball passage 10 mm → 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 → 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"> → Pump housing and impeller made of grey cast iron, bronze or stainless steel, depending on version 	<ul style="list-style-type: none"> → Attached float switch
Special features	<ul style="list-style-type: none"> → Sturdy waterworks version in cast iron or zinc-free bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing to minimise noise and vibrations → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency 	<ul style="list-style-type: none"> → For fluids up to 95 °C → Versions in bronze or in stainless steel casting for aggressive fluids → 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>



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 15 ... Wilo-EMU FA 20 ... to FA 25 ... Wilo-EMU FA 30 ... to FA 60 ...
Field of application	Special applications, wastewater collection and transport, dewatering, industrial process	Special applications, wastewater collection and transport, wastewater treatment, dewatering	Special applications, wastewater collection and transport, wastewater treatment, dewatering, industrial process
Duty chart			
Design	Submersible sewage pump for industrial applications	Submersible sewage pump	Submersible sewage pump with glanded 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 sumps and tanks, and also for house and site drainage	Pumping sewage with solid content in wastewater treatment plants and pumping stations, local drainage, water control and process water extraction; construction applications and industrial applications
Volume flow Q max.	180 m ³ /h	95 m ³ /h	7,950 m ³ /h
Delivery head H max.	21 m	29 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: 50/65/80 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 → Secure Vortex hydraulics with large free ball passage for a non-clogging operation → 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>

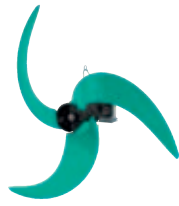


Product range	Submersible sewage pumps	Submersible sewage pumps	Recirculation pump
Series	Wilo-EMU FA...RF	Wilo-EMU KPR ...	Wilo-EMU RZP 20 to RZP 80-2
Field of application	Special applications, wastewater collection and transport, industrial process	Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering	Special applications, wastewater treatment
Duty chart			
Design	Submersible sewage pumps made of cast stainless steel	Axial submersible pump with glanded motor for use in pipe sumps	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>



Series extension

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 rain spillway basin and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply	Turbulation of deposits and solids in rain spillway basin 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: 350 – 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	<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 treatment</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p>



Series extension



Product range	Submersible mixer	Submersible mixer
Series	Wilo-EMU TR 212 to TR 226 Wilo-EMU TR 316 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 – 4950 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 326-3



**“With Wilo pumps,
it’s clear that there’s no
longer 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

Disposing of wastewater reliably

Wilo systems for sewage disposal.

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.

Pumping station in Tuzla, Turkey. Reliable sewage disposal.

The task: The municipal sewage treatment facility purifies sewage produced by 4.5 million residents. It is collected via two separate subterranean sewer systems and must then be lifted more than 8 m to supply it into the treatment plant. Two pump stations are in continuous use for this purpose.

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





Wastewater treatment plant in Atlanta, USA.
For minimum life cycle costs.

The task: To increase efficiency in the fields of mixed media, purification and food filtration.

The solution: Wilo supplied 134 highly efficient, low-wearing submersible mixers which run perfectly and save a tremendous amount of power.





Product range	Self-priming drainage pumps	Submersible drainage pumps	Pedestal pumps
Series	Wilo-Drain LP Wilo-Drain LPC	Wilo-Drain TMT Wilo-Drain TMC	Wilo-Drain VC
Field of application	Water distribution/boosting, professional irrigation/agriculture, wastewater collection and transport, dewatering (including flood control)	Special applications, dewatering, industrial process	Professional irrigation/agriculture, special applications, dewatering, 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	13 m	20 m
Technical data	<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 	<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 5 m → Fluid temperature 95 °C, 65 °C non-immersed → Cable length 10 m → Free ball passage 10 mm → 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 → 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	→ Pump housing and impeller made of grey cast iron, bronze or stainless steel, depending on version	→ Attached float switch
Special features	<ul style="list-style-type: none"> → Long service life → Sturdy construction → Easy operation → Flexible use 	<ul style="list-style-type: none"> → For fluids up to 95 °C → Versions in bronze or in stainless steel casting for aggressive fluids → 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: 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>Building services catalogue: Drainage and sewage</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering</p>



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, industrial process	Dewatering, 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 drainage of excavation pits, cellar areas, sumps and basins. Ideally suited for use in fountains
Volume flow Q max.	16 m ³ /h	53 m ³ /h	340 m ³ /h
Delivery head H max.	12 m	25 m	71 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 = 3 m, TS/TSW = 10 m → Fluid temperature 3 °C to 35 °C, for short periods up to 3 min. max. 90 °C → Cable length 3 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 10 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 permanent operation even with non-immersed motor → Corrosion-resistant components
Special features	<ul style="list-style-type: none"> → TMW, TSW with turbulator for constantly clean pump sump → 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 permanent operation (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>



Product range	Submersible sewage pumps with macerator	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-RexaCut FIT Wilo-RexaCut PRO 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: 5 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 glanded 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>



Product range	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pump
Series	Wilo-Drain TP 50 Wilo-Drain TP 65	Wilo-Drain TP 80 Wilo-Drain TP 100 Wilo-Drain TP...-AM	Wilo-Rexa FIT Wilo-Rexa PRO
Field of application	Wastewater collection and transport, dewatering	Special applications, wastewater collection and transport, dewatering, industrial process	Special applications, wastewater collection and transport, wastewater treatment, dewatering
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 sumps and tanks, and also for house and site drainage
Volume flow Q max.	60 m ³ /h	180 m ³ /h	95 m ³ /h
Delivery head H max.	21 m	21 m	29 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: 10 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: 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: 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 (not for "AM" version) → Sheath current cooling → Model "AM" with float switch, CEE-plug and transport frame 	<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 → Secure Vortex hydraulics with large free ball passage for a non-clogging operation → 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	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-EMU FA 08 ... to FA 15 ... (standard pumps)	Wilo-EMU FA 08 ... to FA 15 ... Wilo-EMU FA 20 ... to FA 25 ... Wilo-EMU FA 30 ... to FA 60 ...	Wilo-EMU FA...RF
Field of application	Wastewater collection and transport, wastewater treatment, dewatering	Special applications, wastewater collection and transport, wastewater treatment, dewatering, industrial process	Special applications, wastewater collection and transport, industrial process
Duty chart			
Design	Submersible sewage pumps	Submersible sewage pump with glanded motors or self-cooling motors	Submersible sewage pumps made of cast stainless steel
Application	Pumping sewage with solid content in wastewater treatment plants and pumping stations, local drainage, water control and process water extraction; construction applications and industrial applications	Pumping sewage with solid content in wastewater treatment plants and pumping stations, local drainage, water control and process water extraction; construction applications and industrial applications	Pumping sewage with solid content in water treatment systems and industrial applications
Volume flow Q max.	380 m ³ /h	7,950 m ³ /h	70 m ³ /h
Delivery head H max.	51 m	87 m	30 m
Technical data	<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 	<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
Equipment/function	→ Oil separation chamber with optional external monitoring	→ Heavy-duty version made of cast iron → Oil separation chamber with optional external monitoring	→ Oil separation chamber with optional external monitoring
Special features	<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 	<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
Information	<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>	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p>



Product range	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-EMU FA...WR	Wilo-EMU KPR ...
Field of application	Wastewater collection and transport, wastewater treatment	Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering
Duty chart		
Design	Submersible sewage pump with mechanical stirring apparatus	Axial submersible pump with glanded motor for use in pipe sumps
Application	Pumping sewage and sludge in water treatment applications	Pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge
Volume flow Q max.	72 m ³ /h	9,500 m ³ /h
Delivery head H max.	27 m	8.4 m
Technical data	<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"> → 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"> → Mechanical mixing device made of Abrasit material to avoid deposits in the pump sump → 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 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>

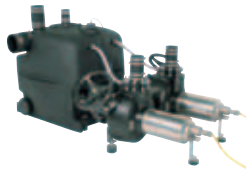


Product range	Wastewater lifting units	Wastewater lifting units for concealed floor installation	Small sewage lifting units
Series	Wilo-DrainLift TMP	Wilo-DrainLift Box	Wilo-DrainLift KH 32
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection 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, and pumping of non-aggressive rainwater	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 (free-standing toilets) and e.g. an additional washbasin that cannot be discharged to the sewer system via the natural fall
Volume flow Q max.	Max. intake/h with S3 operation 156 / 900	Max. intake/h with S3 operation 900 ... 1320 l	Max. intake/h with S3 operation 260 l
Delivery head H max.	Operating mode S3-10 % / S3-25 %	Operating mode S3-10 % / S3-25 %	Operating mode S3-25 %
Technical data	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Fluid temperature max. 35/45 °C, for short periods (3 min.) 75/90 °C → Ventilation connection 25/32 mm → Protection class IP 44/67 → Gross tank volume 17/32 l → Switching volume 2.6/15 l 	<ul style="list-style-type: none"> → 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 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Max. fluid temperature 35 °C → Free ball passage 10 mm → Protection class IP 44 → Gross tank volume 17 l → Switching volume 2.6 l
Equipment/function	<ul style="list-style-type: none"> → Ready-to-plug system → Level control with pneumatic pressure transducer (TMP 32) → Integrated non-return valve → Fixation material → Integrated active carbon filter (TMP 32) → Integrated submersible pump of the TMW series (TMP 40) 	<ul style="list-style-type: none"> → 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 	<ul style="list-style-type: none"> → Ready-to-plug system → Level control with pneumatic pressure transducer → Non-return valve → Inlet seal → Kit for pressure pipe connection → Fixation material → Integrated active carbon filter
Special features	<ul style="list-style-type: none"> → Contemporary design → Shower drains with a height of 110 mm possible (only in conjunction with TMP 32-0.5) → Low-noise operation → Easy to maintain due to integrated submersible pump (TMP 40) 	<ul style="list-style-type: none"> → 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 	<ul style="list-style-type: none"> → Modern, space-saving design → Easy installation due to self-sealing, direct toilet connection
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>



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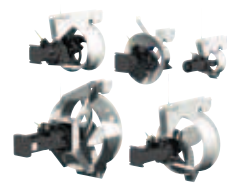
Product range	Small sewage lifting units for front-wall installation	Compact sewage lifting units with 1 integrated pump	Sewage lifting units with 1 or 2 integrated pumps
Series	Wilo-DrainLift XS-F	Wilo-DrainLift S	Wilo-DrainLift M Wilo-RexaLift FIT L
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Design	Small sewage lifting units	Compact sewage lifting units with integrated pump	Sewage lifting units with 1 or 2 integrated pumps
Application	For the disposal of sewage from a single toilet (wall-mounted toilets) in addition to a hand washbasin, shower or bidet, the wastewater/sewage of which 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.	Max. intake/h with S3 operation 120 l	Max. intake/h with S3 operation 600 l	Max. intake/h with S3 operation 1050 ... 3600 l
Delivery head H max.	Operating mode S3-30 %	Operating mode S3-15 %, 120 s	Operating mode S3-15 %, 80 s or 120 s
Technical data	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Max. fluid temperature 35 °C → Free ball passage 25 mm → Protection class IP 44 → Tank volume 7.9 l → Switching volume 1.2 l 	<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
Equipment/function	<ul style="list-style-type: none"> → Ready-to-plug system for front-wall installation → Level control with pneumatic pressure transducer → Potential-free contact → Non-return valve → Inlet seals → Kit for pressure pipe connection → Fixation material → Active carbon filter 	<ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with pneumatic pressure transducer → Potential-free contact → Pump cable detachable → Non-return valve → Inlet seal → Keyhole saw for inlet borehole → Hose connection for venting → Hose connection for diaphragm hand pump → Fixation material → Soundproofing material 	<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
Special features	<ul style="list-style-type: none"> → Quiet operation for high user comfort → Reliable due to integrated alarm → Large scope of delivery (all collars, non-return valve, venting set with active carbon filter etc.) 	<ul style="list-style-type: none"> → Space-saving installation, front-wall installation possible → Retrospective installation possible for draining showers, toilets or other household items → Installation-friendly due to low weight and large scope of delivery incl. non-return valve → Flexible thanks to freely selectable inlets → Operationally reliable thanks to a reliable pneumatic level detection 	<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
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 integrated pumps	Sewage lifting unit with 2 pumps for dry well installation	Pumps station with synthetic tank
Series	Wilo-DrainLift XL	Wilo-DrainLift XXL	Wilo-DrainLift WS 40 Basic Wilo-DrainLift WS 40-50
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Design	Sewage lifting unit with 2 integrated pumps	Sewage lifting unit with 2 pumps for dry well installation	Pumps station with synthetic tank or as sewage lifting unit in the building, 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.	Max. intake/h with S3 operation 15600 l	Max. intake/h with S3 operation 26400 ... 55200 l	60 m ³ /h
Delivery head H max.	Operating mode S3-60 %, 120 s	Operating mode S3-25 %, 60 s	27 m
Technical data	<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 	<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 pumps station 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
Equipment/function	<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 	<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 	Wilo-Drain pumps which can be used: TC 40 TP 50 TP 65 MTS 40/21 ... 27
Special features	<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 → Permanent operation (S1) possible thanks to the use of self-cooling motors 	<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 → Permanent operation (S1) possible due to the use of self-cooling motors 	<ul style="list-style-type: none"> → Pressure-tight sump 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)
Information	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage



Product range	Pumps station with synthetic tank	Pumps station with synthetic tank
Series	Wilo-DrainLift WS 625	Wilo-DrainLift WS 830 Wilo-DrainLift WS 900 Wilo-DrainLift WS 1100
Field of application	Wastewater collection and transport	Wastewater collection and transport
Duty chart		
Design	Pumps stations with synthetic tank as single-pump system	Pumps station with synthetic tanks, 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
Volume flow Q max.	15 m ³ /h	180 m ³ /h
Delivery head H max.	27 m	55 m
Technical data	<ul style="list-style-type: none"> → Synthetic pumps station made of recyclable PE → Maximum upward pressure reliability due to finning → Available in 4 heights: 1,200, 1,500, 1,800 and 2,100 mm → Sump covers in three versions: standard, for walking on, or for driving over → Max. pressure in the pressure pipe 6 bar (MTS 40) or 4 bar 	<ul style="list-style-type: none"> → Synthetic pumps station made of recyclable PE → Maximum upward pressure reliability due to 2 or 4 lateral fins → 2/4 inlets can be selected on site → Maximum stability due to moulded hemispherical shape of the sump floor → 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) → Max. pressure in the pressure pipe 6 bar
Equipment/function	Wilo-Drain pumps which can be used: TMW 32 TC 40 STS 40 MTS 40/21 ... 27	Wilo-Drain pumps which can be used: TS 40 TP 50 TP 65 TP 80 FIT V05 PRO V05, V06 MTC 32 MTC 40 MTS 40
Special features	<ul style="list-style-type: none"> → Flexible use thanks to three different construction heights → Inlet connection as standard in DN 100 → Complete with integrated fittings and seals → Cover (to be walked or driven over) available as an accessory 	<ul style="list-style-type: none"> → Flexible installation → Anti-buoyant → High stability
Information	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage

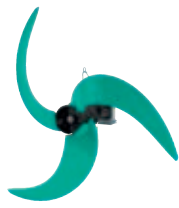


Product range	Solids separation system	Submersible pumps	Recirculation pump
Series	Wilo-EMUpport FTS MG... Wilo-EMUpport FTS MS... Wilo-EMUpport FTS FG... Wilo-EMUpport FTS FS...	Wilo-EMU polder pumps	Wilo-EMU RZP 20 to RZP 80-2
Field of application	Wastewater collection and transport	Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process	Special applications, wastewater treatment
Duty chart	no illustration		
Design	Pumping station for floor mounting or concealed floor installation, in PEHD	Polder pump	Submersible mixers with housing unit, directly driven or with single-stage planetary gear
Application	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	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.	On request	1,200 m ³ /h	6,800 m ³ /h
Delivery head H max.	On request	160 m	1.1 m
Technical data	Pumps stations ready for connection → With sewage pumps for dry well installation and solids separation system → Available in sump version (MS, FS) or building version (MG, FG)	→ 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	→ 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	→ Solids separation system - Collection reservoir - 2x solids separation reservoir - 2x sewage pump - Complete pipework including inlet and pressure connection and non-return valve	→ 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	→ Stationary installation directly on the flow pipe → Flexible installation via lowering device → Vertical or in-line installation possible
Special features	→ Long service life and corrosion resistance thanks to PE-HD 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	→ 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	→ Vertical or in-line installation possible → Self-cleaning propeller to avoid clogging → Propeller in steel or PUR
Information	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	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment



Series extension

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 rain spillway basin and pump sump; destruction of floating sludge layers; further applications in agriculture and water supply	Turbulation of deposits and solids in rain spillway basin 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: 350 – 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	<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 treatment</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p>



Series extension



Product range	Submersible mixer	Treatment process	Ventilation
Series	Wilo-EMU TR 212 to TR 226 Wilo-EMU TR 316 to TR 326 Wilo-EMU TRE with IE3 motor	Wilo-Sevio ACT SD 101	Wilo-Sevio AIR
Field of application	Special applications, wastewater treatment	Wastewater treatment, industrial process	Sewage treatment
Duty chart	no illustration	no illustration	no illustration
Design	Slow-running submersible mixer with two-stage planetary gear reduction	Scum skimmer	Ventilation system with disc aerator
Application	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	For fine-bubble aeration of aqueous media such as water, wastewater or sludge, for the purposes of supplying oxygen
Volume flow Q max.	Thrust: 390 – 4950 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 → 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 	<ul style="list-style-type: none"> → Disc aerator <ul style="list-style-type: none"> - Outer diameter: 280 mm - Diaphragm diameter: 237 mm - Diaphragm surface area: 0.044 m² - Oxygen utilisation: 6.5 ... 8.5 %/m - Size of the air bubbles: 1–3 mm - Pressure loss: 22 ... 43 mbar - Connection size: 88.9 ... 90 mm - Max. air temperature in the system/disc aerator: 100 °C → Loading range <ul style="list-style-type: none"> - Air volume range: 1–8 Nm³/h* - Min. loading: 1.5 Nm³/h* - Standard loading: 4.0 Nm³/h* - Max. loading: 6.0 Nm³/h* A loading of 7.5 Nm³/h* is possible for short periods (max. 15 minutes). * The values for loading apply under standard conditions: 0 °C and 1013 hPa.
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"> → Height-adjustable suction pipe due to lowering device → Suction pipe with telescopic extension 	<ul style="list-style-type: none"> → Aeration system including pipework made from PVC or stainless steel, including pre-mounted disc aerator → Disc aerator available separately
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"> → 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 	<ul style="list-style-type: none"> → High operational reliability thanks to integrated non-return valve → High system efficiency due to increased ventilation capacity → Sturdy construction with glass-fibre reinforced plastic → Easy installation without gluing or welding work → Optimisation of the ventilation process in combination with submersible mixers
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Documentation on request	Documentation on request

Wilo-RexaLift FIT L



“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

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.

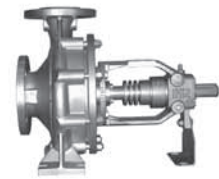
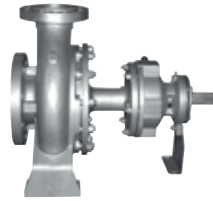
The solution: A highly wear-resistant Wilo-EMU FA 30 submersible pump was used for more than a year and was replaced by two installers in just two days.

Result: Extremely low life cycle costs.

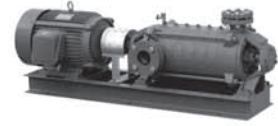




Product range	Glanded monobloc pumps	Standard glanded pumps	Standard glanded pumps
Series	Wilo-CronoBloc-BL	Wilo-CronoNorm-NL	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, water supply, industrial process	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"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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"> → For pumping heating water (in accordance with VDI 2035), water-glycol mixtures and cooling/cold water 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.	360 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) up to ≥ 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 (for the series) → 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 ≥ 0.1 (for the series) → 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	<ul style="list-style-type: none"> → Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with → Mechanical seal → Flange connection with pressure measuring connection R $\frac{1}{8}$ → Lantern → Coupling → IEC standard motor 	<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 intermediate sleeve 	<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
Special features	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → High corrosion protection thanks to cathaphoretic coating of the cast iron components → Standard condensate drain holes in the motor housings → High availability worldwide of standard motors (according to Wilo specification) and mechanical seals → User-friendly thanks to performances and main dimensions according to EN 733 (DIN for norm pumps) 	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Bidirectional mechanical seal with forced flushing → Low NPSH values, best cavitation properties → Shaft coupling with or without intermediate sleeve → Shaft bending fulfils requirements of ISO 5199 	<ul style="list-style-type: none"> → Motors with higher efficiency as standard; motors with IE2 technology if rated motor power is 0.75 kW or more → Worldwide obtainability of standard motors and mechanical seals
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: → 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 m ³ /h	600 m ³ /h	1,000 m ³ /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 protection, 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 protection, 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 protection, 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 pump	Submersible pump	Sectional pumps
Series	Series Norma V	Series MMI 50 V	Series RN, HS, IPB, PJ, STD PLURO, FG/FH
Field of application	Industrial process	Industrial process	Industrial process
Duty chart			no illustration
Design	Single-stage submersible pump with pump hydraulics as per EN 733	Multistage submersible pump	Multistage high-pressure multistage centrifugal pump in sectional construction, mounted on baseplate
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 sumps	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 sumps	For industrial use in high-pressure applications, such as: → Metal industry → Mine drainage → Desalination plants → Boiler supply → Fire fighting → High-pressure cleaning → Water supply
Volume flow Q max.	200 m ³ /h	30 m ³ /h	1,000 m ³ /h
Delivery head H max.	100 m	180 m	1800 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 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
Equipment/function	<ul style="list-style-type: none"> → Single-stage vertical turbine pump, discharge bend → Axial suction → Connection on pressure side above or optionally also below the connection plate → Flange version in PN 10/16/25 → Basic versions: VCS: adjustable base and fixed coupling VEM: cast iron support and fixed coupling VTM: bearing block and semi-elastic coupling → IEC motor B14/V1, 1450 or 2900 rpm (60 Hz on request) → 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"> → 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
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 → Semi-elastic coupling with the VTM version → Internal seal for pressure side and mechanical seal in versions VTMRI and VRI → All parts in contact with fluid are made of stainless steel → For high-pressure applications 	<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
Information	Documentation on request	Documentation on request	Documentation on request



Product range	Axially split case pumps	Vertical turbine pumps	Glanded high-efficiency pumps in in-line design
Series	Wilo-SCP	Series VMF, CNE, VAF	Wilo-Stratos GIGA
Field of application	Cooling, air-conditioning, water distribution/boosting, industrial process	Water distribution/boosting, industrial process	Heating, air-conditioning, cooling, industrial process
Duty chart		no illustration	
Design	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	High-efficiency in-line pump with EC motor, electronically controlled, with flange connection, in glanded design
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. 	<ul style="list-style-type: none"> For industrial or municipal water supply and → Irrigation → Fire fighting → Cooling water supply → Dewatering and flood control 	<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.
Volume flow Q max.	3,400 m ³ /h	40,000 m ³ /h	120 m ³ /h
Delivery head H max.	245 m	450 m	52 m
Technical data	<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 	<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 (for the series) → 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"> 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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Lantern → Coupling → Electronically controlled EC motor
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"> → Minimum surface area needed → High hydraulic efficiency → Submerged pump hydraulics → Design to order as per customer specifications 	<ul style="list-style-type: none"> → Innovative high-efficiency pump for highest overall efficiency based on a new design for Wilo glanded pumps → Highly efficient EC motor (efficiency higher than IE4 limit values according to IEC TS 60034-31 Ed.1) → Highly efficient hydraulics which is optimally adapted to the EC motor technology, with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 according to ErP Directive 2009/125/EC [Commission Regulation (EU) 547/2012]. → Control range is up to three times higher than for conventional electronically controlled pumps
Information	Online catalogue: productfinder.wilo.com	Documentation on request	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling



Series modification



Product range	Glanded energy-saving pumps in in-line design	Glanded energy-saving pumps in in-line design	Glanded energy-saving pumps in monobloc design
Series	Wilo-VeroLine-IP-E Wilo-VeroTwin-DP-E	Wilo-CronoLine-IL-E Wilo-CronoTwin-DL-E	Wilo-CronoBloc-BL-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	Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment	Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment	Electronically controlled glanded single pump in monobloc design with flange connection and automatic power adjustment
Application	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 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 heating water (in accordance with VDI 2035), water-glycol mixtures, cooling water and cold water without abrasive substances in heating, cold water and cooling water systems.
Volume flow Q max.	170 m³/h	800 m³/h	380 m³/h
Delivery head H max.	30 m	65 m	85 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °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) up to ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 10 bar (special version: 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) up to ≥ 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) up to ≥ 0.4 → Protection class IP 55 → Nominal diameter DN 32 to DN 125 → Max. operating pressure 16 bar (120 °C)
Equipment/function	Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Motor with integrated electronic control → DP-E with switchover valve 	Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Coupling → Motor with integrated electronic control → DL-E with switchover valve 	Single-stage low-pressure centrifugal pump in monobloc design (axial suction port, radial pressure port) with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R$\frac{1}{8}$ → Lantern → Coupling
Special features	<ul style="list-style-type: none"> → Energy savings thanks to integrated electrical performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated dual pump management → Integrated full motor protection (PTC) with trip electronics 	<ul style="list-style-type: none"> → Energy savings thanks to integrated electrical performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated dual pump management → Different operating modes: main/standby operation and parallel operation → Integrated full motor protection (PTC) with trip electronics 	<ul style="list-style-type: none"> → Energy savings thanks to integrated electrical performance adaptation → Optional interfaces to bus communication thanks to plug-in IF-Modules → Easy operation with red-button technology and display → Integrated full motor protection (PTC) with trip electronics → User-friendly thanks to performances and main dimensions according to EN 733 (DIN for norm 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



Series modification



Series modification



Product range	Glanded standard pumps in in-line design	Glanded standard pumps in in-line design	Special glanded pumps in in-line design
Series	Wilo-VeroLine-IPL Wilo-VeroTwin-DPL	Wilo-CronoLine-IL Wilo-CronoTwin-DL	Wilo-VeroLine-IPH-W Wilo-VeroLine-IPH-O
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 screwed connection or flange connection	Glanded pump in in-line design with flange connection	Glanded pump in in-line design with flange connection
Application	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 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	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
Volume flow Q max.	245 m ³ /h	1,150 m ³ /h	80 m ³ /h
Delivery head H max.	52 m	110 m	38 m
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) up to ≥ 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) up to ≥ 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
Equipment/function	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Motor with one-piece shaft → DPL with switchover valve 	<ul style="list-style-type: none"> → Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor → DL with switchover valve 	<ul style="list-style-type: none"> Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Lantern → Motor with special shaft
Special features	<ul style="list-style-type: none"> → High corrosion protection due to cathoretic coating → Standard condensate drain holes in the motor housings and lanterns → Series version: Motor with one-piece shaft → N Version: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional mechanical seal with forced flushing → 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 drain holes in the motor housings → Flexible use in air-conditioning and cooling systems, with application advantages like targeted condensate draining by optimised lantern design (patented) → High corrosion protection due to cathoretic coating → High availability worldwide of standard motors (according to Wilo specifications) and standard mechanical seals → Main-/standby operation or peak-load operation (with additional external device) 	<ul style="list-style-type: none"> → Bidirectional, self-cooling mechanical seal → Great variety of applications due to a wide fluid temperature range without additional wear parts
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



Product range	Special glanded pumps in in-line design	Glanded monobloc pumps	Glanded special pumps
Series	Wilo-VeroLine-IPS	Wilo-BAC	Wilo-VeroLine-IP-Z
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process	Secondary hot water
Duty chart			
Design	Glanded pump in in-line design with screwed connection or flange connection	Glanded pump in monobloc design with screwed connection or Victaulic connection	Glanded circulation pump in in-line design with screwed connection
Application	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	For pumping water-glycol mixtures with a glycol volume proportion of 20 to 40 %	For pumping potable 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.	13 m ³ /h	85 m ³ /h	5 m ³ /h
Delivery head H max.	3 m	25 m	4.5 m
Technical data	<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 ≥ 0.1 (for the series) → 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 -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.4 (for the series) → 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: secondary hot water up to a water hardness of 4.99 mmol/l (28 °d) max. +65 °C → In short-term operation (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	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	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"> → Worldwide availability of the standard motors used → Bidirectional mechanical seal with forced flushing 	<ul style="list-style-type: none"> → Reduced life cycle costs thanks to optimised efficiency → Pump housing in plastic material version → 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
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	Submersible pumps	Submersible pumps	Submersible pumps
Series	Wilo-Sub TWI 4 ... Wilo-Sub TWI 6 ... Wilo-Sub TWI 8 ... Wilo-Sub TWI 10 ...	Wilo-EMU 6" series Wilo-EMU 8" series Wilo-EMU 10"...24" series	Wilo-EMU polder pumps
Field of application	Rainwater utilisation, water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Water distribution/boosting, clean water treatment, raw water intake, desalination, dewatering, industrial process
Duty chart			
Design	Submersible pump, multistage	Submersible pump with sectional construction	Polder pump
Application	Water supply (including potable 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	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	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.	165 m ³ /h	2,400 m ³ /h	1,200 m ³ /h
Delivery head H max.	500 m	560 m	160 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 → Fluid temperature: 3~20 °C or 3~30 °C → Minimum 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: 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: 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 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 → 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 → 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"> → 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 	<ul style="list-style-type: none"> → Sturdy waterworks version in cast iron or zinc-free bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing for minimising noise and vibrations → Maintenance-friendly motors → Optionally with Ceram CT coating for increasing the efficiency 	<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	<p>Online catalogue: productfinder.wilo.com</p> <p>Building Services catalogue: Water supply</p> <p>Water Management catalogue: Water supply – Raw water intake</p>	<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>Water Management catalogue: Water supply – Raw water intake</p>



Product range	Submersible drainage pumps	Pedestal pumps	Submersible drainage pumps
Series	Wilo-Drain TMT Wilo-Drain TMC	Wilo-Drain VC	Wilo-Drain TS 40 Wilo-Drain TS 50 Wilo-Drain TS 65
Field of application	Special applications, dewatering, industrial process	Professional irrigation/agriculture, special applications, dewatering, industrial process	Wastewater collection and transport, dewatering, 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.	13 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 5 m → Fluid temperature 95 °C, 65 °C non-immersed → Cable length 10 m → Free ball passage 10 mm → 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 → 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 10 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	→ Pump housing and impeller made of grey cast iron, bronze or stainless steel, depending on version	→ 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 → Versions in bronze or in stainless steel casting for aggressive fluids → 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-Drain TP...-AM	Wilo-EMU FA 30 ... to FA 60 ...
Field of application	Dewatering, industrial process	Special applications, wastewater collection and transport, dewatering, industrial process	Special applications, wastewater collection and transport, dewatering, 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 glanded motors or self-cooling motors
Application	For drainage of excavation pits, cellar areas, sumps 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 drainage and industrial applications
Volume flow Q max.	340 m ³ /h	180 m ³ /h	7,950 m ³ /h
Delivery head H max.	71 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 permanent operation even with non-immersed motor → Corrosion-resistant components 	<ul style="list-style-type: none"> → Thermal motor monitoring → Sealing chamber monitoring → ATEX approval (not for "AM" version) → Sheath current cooling → Model "AM" with float switch, CEE-plug and transport frame 	<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 permanent operation (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	Scum skimmer
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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Design Engineer, WILO SE Hof/Germany

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