

Pioneering for You

wilo

European delivery range – Edition 2013 – 50 Hz

General overview

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



**“Developing the
world’s most
efficient product
portfolio,**

**that’s what I call
Pioneering for You.”**

Dr. Jens Fiedler, Research Engineer Motor Control
WILO SE



General overview

at a glance:

Contents	
Wilo's way	from page 4
New image with a fresh colour scheme, new logo and the slogan "Pioneering for You".	
Wilo worldwide	from page 6
All the way from a copper and brass goods factory to one of the world's leading manufacturers of pumps and pump systems.	
Wilo planning support	from page 9
Modern information and consulting applications such as the Wilo Assistant app, the Wilo Online Catalogue, Wilo-LCC-Check, Wilo-Select and the Wilo-CAD catalogue.	
Heating, air-conditioning, cooling	from page 13
Pumps and systems for heating, air-conditioning, cooling, secondary hot water, solar and geothermal energy applications.	
Water supply	from page 27
Pumps and systems for rainwater utilisation, water supply and pressure boosting, fire fighting, clean water treatment, raw water intake, desalination and professional irrigation/agriculture.	
Special applications	from page 47
Pumps and systems for all types of water circuits.	
Drainage and sewage	from page 57
Pumps and systems for wastewater collection and transport, wastewater treatment, drainage and flood protection.	
Industry	from page 75
Pumps and systems for cooling and heating, for cleaning or for peripheral process support.	



Wilo's way

Our new image.

Shaping the future for you.

This year, we are presenting ourselves not only with many trendsetting products, but also with a new image. The reason for this is simple: we have clearly changed in recent years and have become much more dynamic, large and international. We are now communicating this change with the outside world, through a fresh colour scheme, our new logo and the slogan "Pioneering for You".



With this new slogan, we are making clear who is always at the centre of all our thoughts and developments: our customers, whose life and work we want to make as simple as possible with our products, solutions and services. Our slogan “Pioneering for You” expresses our commitment to a clear customer focus, strict quality orientation and strong passion for technology. We will measure our future performance against this standard, and we hope you will do the same.

Wilo

Pioneering for You.

We are there for you worldwide.

Since 1872, we at Wilo have been turning visionary ideas into intelligent solutions that regularly set new standards in the industry. The goal of our company founder, Louis Opländer, was to use his copper and brass goods factory to improve and facilitate the supply of water and heat to people. He did this with great success: in 1928, he designed the world's first circulation accelerator and revolutionised the field of heating technology. Since then, our company history has been marked again and again by pioneering innovations such as the world's first high-efficiency pump for heating, air-conditioning and cooling and the world's first decentralised pump system.

Today WILO SE, headquartered in Dortmund, is one of the world's leading manufacturers and providers of pumps and pump systems for heating, air-conditioning and cooling, for water supply and sewage disposal. With over 6,700 employees and 60 production and sales companies all over the world, we personally see to it that the desires and requirements of our customers and users are optimally met every day – with pioneering developments and solutions, high-efficiency products, tailored solutions for special applications and for industry and extensive service offerings. This is what we mean by Pioneering for You.



wilo

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



Wilo planning support

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

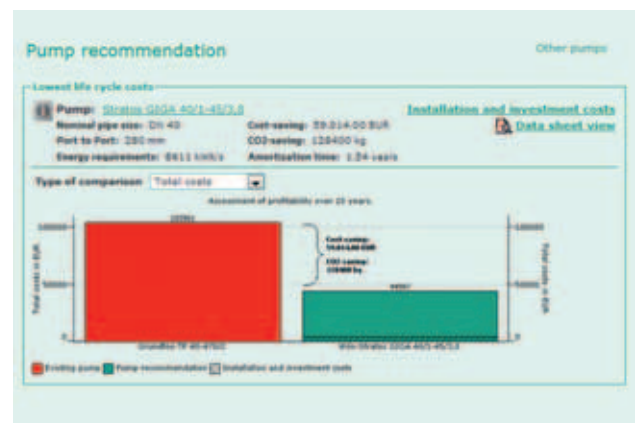


Wilo planning support

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 planning. This makes time-consuming searching and unnecessary work steps a thing of the past.



1 The pump planning 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.

- 5 The Wilo Assistant app:**
Here you find important information and functions during on-site 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 – even during
planning.”**



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.



**Porsche Museum,
Stuttgart, Germany**
**High-efficiency heating and
hot water supply.**

Task: The high-efficiency Wilo standard, already well established in the plants and production facilities of Porsche, was to feature in the Porsche Museum as well.

Solution: The supply of heating and water to the entire museum was achieved solely by means of Wilo-Stratos high-efficiency pumps and Wilo in-line pumps, in a demand-oriented and energy-saving manner.



**Ostseeresidenz Heringsdorf,
Insel Usedom, Germany**
Effective sewage management.

Task: Sewage disposal at 15 hotels, villas and residences, including underground garages, swimming pools and wellness zones, fitness areas, restaurant and brewery.

Solution: The resource-friendly use of rainwater coupled with the extremely effective and reliable handling of sewage was achieved solely by means of Wilo pumps and lifting units.



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-Stratos Wilo-Stratos-D
Field of application	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling
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	4.8 m ³ /h	61 m ³ /h
Delivery head H max.	6.0 m	7.6 m	16 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"> → Permitted temperature range -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 control function can be combined with Δp-v → 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 → Reset function for resetting to factory settings → Blocking-current proof motor → Particle filter → Quick electrical connection with Wilo-Connector → Options: version with red-brass pump housing for use in underfloor heating systems; version with short port-to-port length 130 mm 	<ul style="list-style-type: none"> → Control mode Δp--c and Δp-v → Setting of pump output (delivery head) → Automatic venting function → Automatic deblocking function → LED display for setting the setpoint and displaying actual consumption in watts → Blocking-current proof motor → Particle filter → Quick electrical connection with Wilo-Connector → Options: <ul style="list-style-type: none"> - Versions with short port-to-port length 130 mm 	<ul style="list-style-type: none"> → EC motor → Pre-selectable control modes Δp-c, Δp-v, Δp-T → Automatic setback operation → Dual pump management → Graphical pump display with rotating display → Remote control via infrared interface (IR-Stick/IR-Monitor) → Integrated motor protection → System expansion by means of retrofittable 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) → Thermal insulation shells as standard, for heating applications
Special features	<ul style="list-style-type: none"> → High-efficiency pump especially for single and two-family houses, as well as for two to six-family houses. → Up to 90% electricity savings compared to older uncontrolled heating pumps → Only 3 watts minimum power consumption → Very high starting torque for reliable starting → Integrated motor protection → Venting routine for automatic venting of the rotor chamber 	<ul style="list-style-type: none"> → High-efficiency pump especially for single and two-family houses, as well as for two to six-family houses → Only 4 watts minimum power consumption → Very high starting torque for reliable starting → Integrated motor protection → Venting function for automatic venting of the rotor chamber → Flexible installation due to compact design 	<ul style="list-style-type: none"> → Up to 80% electricity savings over uncontrolled circulation pumps → Maximum efficiency due to ECM technology
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



NEW



Series extension



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
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.	33 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"> → Permitted temperature range -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"> → Permitted temperature range of the fluid -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"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Preselectable 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 cataphoretic coating for external corrosion protection → Combination flanges PN 6/PN 10 (for DN 40 to DN 65) 	<p>Single-stage, low-pressure centrifugal pump in in-line design with</p> <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Coupling → Electronically controlled EC motor <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: PPS-GF40 → Shaft: 1.4122 → Mechanical seal: AQ1EGG, other mechanical seals on request 	<p>Single-stage, low-pressure centrifugal pump in in-line design with</p> <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Motor with integrated electronic control → DP-E with switchover valve <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: PPO-GF30 → Shaft: 1.4021 → Mechanical seal: AQEGG, other mechanical seals on request
Special features	<ul style="list-style-type: none"> → Maximum efficiency due to ECM technology → Quick and convenient electrical connection with Wilo-Connector → Collective fault signal on all types for assuring system availability → Can be used in cooling/air-conditioning systems without ambient temperature limitation 	<ul style="list-style-type: none"> → Maximum overall efficiency based on a new Wilo glanded design → Highly efficient EC motor (efficiency higher than IE4 limit values) → High-efficiency hydraulics adapted to the EC motor technology, with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 → Integrated electronic control → Control range is up to three times as high as for conventional electronically controlled pumps → Interfaces to bus communication → Integrated dual-pump management with efficiency-optimised peak-load operation 	<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 → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Integrated dual pump management → Integrated full motor protection (PTC thermistor sensor) with trip electronics
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



NEW



Series modification

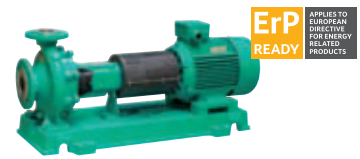
Product range	Glanded energy-saving pumps in in-line design	Glanded energy-saving pumps in monobloc design	Glanded standard pumps in in-line design
Series	Wilo-CronoLine-IL-E Wilo-CronoTwin-DL-E	Wilo-BL-E	Wilo-VeroLine-IPL Wilo-VeroTwin-DPL
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process
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.	680 m³/h	360 m³/h	245 m³/h
Delivery head H max.	65 m	85 m	52 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection: <ul style="list-style-type: none"> 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → Protection class IP 55 → Nominal diameter DN 40 to DN 80 → Max. operating pressure 16 bar 	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection: <ul style="list-style-type: none"> 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → Protection class IP 55 → Nominal diameter DN 32 to DN 125 → Max. operating pressure 16 bar (120 °C) 	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → Protection class IP 55 → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar (special version: 16 bar)
Equipment/function	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 Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: Standard version: EN-GJL-200 Special version: G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	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_{1/2} → Lantern → Coupling Materials: <ul style="list-style-type: none"> → Pump housing and lantern: Standard: EN-GJL-250; optional: EN-GJS-400-18 → Impeller: Standard: EN-GJL-200; optional: red brass G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R_{1/2} → Motor with one-piece shaft → DPL with switchover valve Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: PPO fibreglass-reinforced/ EN-GJL-200 (depending on pump type) → Shaft: 1.4021 → Mechanical seal: AQEGG, other mechanical seals on request
Special features	<ul style="list-style-type: none"> → Motors with IE2 technology for higher efficiency fitted as standard → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Integrated dual pump management → Integrated full motor protection (PTC thermistor sensor) with trip electronics 	<ul style="list-style-type: none"> → Motors with IE2 technology for higher efficiency fitted as standard → Energy savings due to integrated electronic control → Optional interfaces for bus communication using IF-Modules → Access disable on the pump → Integrated full motor protection (PTC thermistor sensor) with trip electronics → Pump bases with threaded hole for installation in the foundation → Condensate drainage holes → Bidirectional mechanical seal with forced flushing → Worldwide obtainability of standard motors and mechanical seals → Meets user requirements due to performance / main dimensions in accordance with EN 733 	<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 → Standard condensate drainage holes in the motor housings and lanterns → Series version: Motor with one-piece shaft → Version N: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional mechanical seal with forced flushing → Easy to install due to feet with threaded holes on pump housing
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



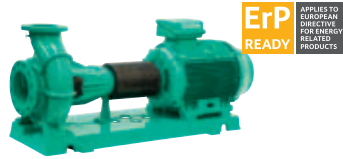
Series modification



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
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 m³/h	80 m³/h	13 m³/h
Delivery head H max.	110 m	38 m	3 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid IPH-W: -10 °C to +210 °C (at max. 23 bar) → Permitted temperature range of the fluid 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"> → Permitted temperature range of the fluid -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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and lantern: Standard version: EN-GJL-250 Optional: EN-GJS-400-18 → Impeller: Standard: EN-GJL-200 Special version: G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	<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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-200 → Impeller: plastic → Shaft: 1.4021 → Mechanical seal: BVEGG, other mechanical seals on request
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 → Standard condensate drainage holes in the motor housings → Can be used flexibly in air-conditioning and cooling systems, with application benefits due to direct draining of condensate (patented) → Bidirectional mechanical seal with forced flushing → Worldwide obtainability of standard motors and mechanical seals → Feet with threaded holes on pump housing 	<ul style="list-style-type: none"> → From 0.75 kW, motors equipped as standard with IE2 technology with higher efficiency → Bidirectional, self-cooled mechanical seal → Great variety of applications due to a wide fluid temperature range without additional wearing parts 	<ul style="list-style-type: none"> → Worldwide availability of the standard motors used
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com



Product range	Glanded monobloc pumps	Glanded 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
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"> → Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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.	360 m³/h	80 m³/h	650 m³/h
Delivery head H max.	105 m	25 m	150 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (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"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (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	<p>Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with</p> <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing (standard): EN-GJL-250; optional: EN-GJS-400-18 → Impeller (standard): EN-GJL-200 Special version: red brass G-CuSn10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	<p>Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port</p> <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing: PA 6.6 50 % GF → Impeller: PA/PPO, fibreglass-reinforced → Shaft: X30Cr13 → Mechanical seal: BQEGG 	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary 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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJS-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG → Other materials on request
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 → Meets user requirements due to performance and main dimensions in accordance with EN 733 	<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 → Pump housing in plastic design → Version with Victaulic or threaded connection (BAC 70/135... with Victaulic connection only) 	<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
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	Condensate lifting units
Series	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG	Wilo-SCP	Wilo-DrainLift Con
Field of application	Heating, air-conditioning, cooling, water supply, industrial process	Cooling, air-conditioning, water distribution/boosting, industrial process	Heating, air-conditioning, cooling
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	Automatic condensate lifting unit
Application	<ul style="list-style-type: none"> → Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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. 	Pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water. Applications in municipal water supply, irrigation, building services, general industry, power stations, etc.	For pumping condensate out of <ul style="list-style-type: none"> → Heat generators with condensing boiler technology → Air conditioning and cooling systems (such as refrigerators, refrigerated display cases and evaporators)
Volume flow Q max.	2,800 m³/h	3,400 m³/h	0.6 m³/h
Delivery head H max.	140 m	245 m	5.4 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -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"> → Permitted temperature range -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameter on suction side DN 65 to DN 500 → Nominal diameter on pressure side DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar depending on type 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → 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	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary 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 Materials for NLG: <ul style="list-style-type: none"> → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG Materials for NPG: <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Other materials on request 	<ul style="list-style-type: none"> → 1- or 2-stage, low-pressure centrifugal pump in monobloc design → Delivered as complete unit (pump with coupling, coupling protection, motor and baseplate) 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"> → Ready-to-plug system → Level control with float switch → Alarm signal via potential-free contact (NC/NO contact) → Integrated non-return valve → Fixation material → 5 m pressure hose
Special features	<ul style="list-style-type: none"> → 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"> → Low-noise operation (≤ 43 dB[A]) → Standard alarm contact (NC/NO contact) → Motor unit reversible by 180° → Variable inlets/drains → Suitable for condensates with a pH value ≥ 2.4
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling



Product range	Control devices	Pump control	Glandless high-efficiency pumps
Series	Wilo-CC-HVAC system Wilo-CCe-HVAC system Wilo-VR-HVAC system Wilo-SC-HVAC system	Wilo-IR-Stick, IR-Monitor Wilo-IF-Module Stratos/Wilo-IF-Module Wilo-Protect-Module C	Wilo-Stratos ECO-STG
Field of application	Heating, air-conditioning, cooling	Heating, air-conditioning, cooling	Solar thermal and geothermal energy systems
Design			Glandless circulation pump with screwed connection, EC motor and automatic power adjustment
Application	Switchgear for controlling 1 to 6 pumps	Wilo-Control products for connecting pumps to building automation	Circulation in solar thermal and geothermal energy systems
Volume flow Q max.	—	—	2.5 m³/h
Delivery head H max.	—	—	5 m
Technical data	—	—	→ Permitted temperature range +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
Equipment/function	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	→ EC motor → Control modes $\Delta p-v$ and $\Delta p-c$ → 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
Special features	→ Special versions on request	—	→ Up to 80% electricity savings over uncontrolled circulation pumps → Maximum efficiency due to ECM technology → Min. electronic power consumption only 5.8 W → 3 times higher starting torque than conventional circulation pumps
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling



Product range	Standard glandless pumps	Standard glandless pumps	Submersible pumps
Series	Wilo-Star-STG	Wilo-TOP-STG Wilo-TOP-STGD	Wilo-Sub TWU 4 ...-GT
Field of application	Solar thermal and geothermal energy systems	Solar thermal and geothermal energy systems	Geothermal energy systems
Design	Glandless circulation pump with screwed connection; preselectable speed stages for power adjustment	Glandless circulation pump with screwed connection or flange connection	Submersible pump, multistage
Application	Circulation in solar thermal and geothermal energy systems	Circulation in solar thermal and geothermal energy systems	Water supply from boreholes, wells and rainwater storage for geothermal applications
Volume flow Q max.	5.5 m³/h	52 m³/h	6 m³/h
Delivery head H max.	11 m	16 m	33 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range -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"> → Permitted temperature range -20 °C to +110 °C, in short-term operation (2 h) up to +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 65 → Max. operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar 	<ul style="list-style-type: none"> → 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 → Protection class: IP 68 → Minimum efficiency index MEI ≥ 0.7 (for the series)
Equipment/function	<ul style="list-style-type: none"> → 3 manually selectable speed stages → Wrench attachment point on pump housing → Blocking-current proof motor, motor protection not required → Cable inlet on both sides for simple installation → Quick connection with spring clips for easy electrical connection → Pump housing with cataphoretic coating for external corrosion protection 	<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 	<ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Three-phase motor → Hermetically sealed motors
Special features	<ul style="list-style-type: none"> → Special hydraulics for use in solar thermal and geothermal energy systems → Up to 30% less current consumption 	<ul style="list-style-type: none"> → Special hydraulics for use in solar thermal and geothermal energy systems → Easy installation due to combination flanges up to nominal diameter DN 65 	<ul style="list-style-type: none"> → Integrated non-return valve → Parts that come in contact with fluids are corrosion-free → Vertical and horizontal installation possible → Low-wearing due to floating impellers → Quick and easy extension of motor cable, without dismantling the pump (TWU 4-...-GT-QC)
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: Water supply



Product range	Glandless high-efficiency pumps	Glandless high-efficiency pumps	Glandless high-efficiency pumps
Series	Wilo-Star-Z NOVA	Wilo-Stratos-ECO-Z Wilo-Stratos ECO-Z ... BMS	Wilo-Stratos-Z Wilo-Stratos-ZD
Field of application	Secondary hot water	Secondary hot water	Secondary hot water
Design	Glandless circulation pump with screwed connection and blocking-current proof synchronous motor	Glandless circulation pump with screwed connection and automatic power adjustment	Glandless circulation pump with screwed connection or flange connection, EC motor and automatic power adjustment
Application	Secondary hot water circulation systems in industry and in building services	Secondary hot water circulation systems in industry and in building services	Secondary hot water circulation systems and similar systems in industry and in building services
Volume flow Q max.	0.4 m³/h	2.5 m³/h	41 m³/h
Delivery head H max.	0.9 m	5 m	12 m
Technical data	<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 	<ul style="list-style-type: none"> → Permitted temperature range of 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
Equipment/function	<ul style="list-style-type: none"> → Quick electrical connection with Wilo-Connector → Blocking-current proof motor → Integrated ball shut-off valve on the suction side (Star-Z NOVA A, Star-Z-NOVA C only) → Integrated non-return valve on the pressure side (Star-Z NOVA A, Star-Z-NOVA C only) → Including plug-in time switch (Star-Z NOVA C only) → Including 1.8 m connecting cable with shock-proof 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 	<ul style="list-style-type: none"> → EC motor → Pre-selectable control modes Δp-c, Δp-v, Δp-T → Pre-selectable speed for constant operation → Automatic setback operation → Dual pump management → Graphical pump display with rotating 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) → Thermal insulation shells as standard, for heating applications → Stratos-ZD version as double pump
Special features	<ul style="list-style-type: none"> → Extremely low power consumption: 2 to 4.5 watts due to new synchronous motor → Materials of the highest quality: with stainless steel impeller. This results in a top hygiene standard, durability and reliable protection against corrosion. → Extended field of application for hard water: up to 20° dH → Flexible service motor: fast replacement of all common pump types → Quick and convenient electrical connection with no tools required thanks to Wilo-Connector 	<ul style="list-style-type: none"> → Corrosion-resistant pump housing made of red brass for systems where oxygen entry is possible → 3 times higher starting torque than conventional circulation pumps → All plastic parts that come into contact with the fluid fulfil KTW recommendations → Min. electronic power consumption only 5.8 W 	<ul style="list-style-type: none"> → Up to 80% electricity savings over uncontrolled circulation pumps → Maximum efficiency due to ECM technology → Corrosion-resistant pump housing made of red brass
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	Standard glandless pumps	Standard glandless pumps	Glanded special pumps
Series	Wilo-Star-Z Wilo-Star-ZD	Wilo-TOP-Z	Wilo-VeroLine IP-Z
Field of application	Secondary hot water	Secondary hot water	Secondary hot water
Design	Glandless circulation pump with screwed connection	Glandless circulation pump with screwed connection or flange connection	Glanded circulation pump in in-line design with screwed connection
Application	Secondary hot water circulation systems in industry and in building services	Secondary hot water circulation systems in industry and in building services	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.	4.8 m³/h	65 m³/h	5 m³/h
Delivery head H max.	6.0 m	9 m	4.5 m
Technical data	<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"> → Permitted temperature range of 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 50 → Max. operating pressure <ul style="list-style-type: none"> Screw-end pumps 10 bar Flange-end pumps 6/10 bar 	<ul style="list-style-type: none"> → Permitted temperature range of 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"> → 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 	<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"> → All plastic parts that come into contact with the fluid fulfil KTW recommendations 	<ul style="list-style-type: none"> → Pump communication in simple and safely retrofit plug-in technology → Easy installation due to combination flanges, nominal width DN 40 to DN 65 	<ul style="list-style-type: none"> → High resistance to corrosive fluids due to stainless steel housing and Noryl impeller → Wide range of applications due to suitability for water hardness up to 5 mmol/l (28 °dH) → All plastic parts that come into contact with the fluid fulfil KTW recommendations
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling

**“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 future 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.
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
Design	Ready-to-plug rainwater utilisation system with self-priming pump	Automatic rainwater utilisation system with 2 self-priming pumps	Automatic rainwater utilisation system with run-down tank and 2 non-self-priming 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 m³/h	16 m³/h	16 m³/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 → 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 → 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 with compact construction → Mounted on a non-corroding base frame → 1 MultiCargo MC centrifugal pump (self-priming) → Pressure-side pipework Rp 1 → Replenishment reservoir (11 l) with float valve → 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 with compact construction → Mounted on vibration-insulated painted steel tubular frames → 2 MultiCargo MC centrifugal pumps (self-priming) → 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 → Replenishment reservoir (150 l) with float valve → RainControl Professional central switchgear with control electronics, level sensor → Menu-prompted operation and display → Pump cycling and test run → Automatic fault-actuated switch-over and peak-load operation → Automatic water exchange in the replenishment reservoir, prevents lime deposits 	<ul style="list-style-type: none"> → Connection-ready module with compact construction → Mounted on vibration-insulated baseplate → 2 MultiPress MP centrifugal pumps (non-self-priming) → 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 switch-over and peak-load operation → Automatic water exchange in the replenishment reservoir
Special features	<ul style="list-style-type: none"> → Low-noise, due to multistage centrifugal 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 centrifugal 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 DVGW-certified, flow-optimised and noise-optimised replenishment reservoir 	<ul style="list-style-type: none"> → Low-noise due to multistage centrifugal 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	Rainwater utilisation system	Self-priming multistage pumps and pump systems	Self-priming multistage pumps and pump systems
Series	Wilo-RainCollector II RWN	Wilo-Jet WJ Wilo-Jet HWJ Wilo-Jet FWJ	Wilo-MultiCargo MC Wilo-MultiCargo HMC Wilo-MultiCargo FMC
Field of application	Rainwater utilisation	Rainwater utilisation, water distribution/boosting, raw water intake	Rainwater utilisation, water distribution/boosting, raw water intake
Design	Ready-to-plug rainwater utilisation system with rainwater tank	Self-priming single-stage centrifugal pumps	Self-priming multistage centrifugal pumps
Application	Rainwater utilisation for saving potable water	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
Volume flow Q max.	5 m³/h	5 m³/h	7 m³/h
Delivery head H max.	55 m	50 m	57 m
Technical data	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Fluid temperature max. +5 °C to +35 °C → Max. operating pressure 6 bar → Replenishment reservoir 1,500 l → Protection class IP 54 	<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
Equipment/function	<ul style="list-style-type: none"> → 1 MultiCargo MC centrifugal pump (self-priming) → Electronic pump control with Wilo-FluidControl → Connection cable with plug → 1500 litre storage tank made of polyethylene → Make-up funnel → Manhole cover → Protection against low water level → Flexible connection on pressure side <p>Other versions, additionally with</p> <ul style="list-style-type: none"> → Automatic water replenishment → Cable set → Overflow protection when installed under backflow level <p>Extension kits can be retrofitted at any time.</p>	<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)
Special features	<ul style="list-style-type: none"> → Low-noise, self-priming pump ensures almost noiseless system operation → Corrosion-free → Can be expanded at any time → Multi-tank system with replenishment and settling zone for better water quality (Wilo MKS system) → Greatest possible connection flexibility, due to rotating rainwater inlet 	<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
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	Non-self-priming multistage pumps and pump systems	Non-self-priming water-supply unit with frequency converter	Cistern pumps
Series	Wilo-MultiPress MP Wilo-MultiPress HMP Wilo-MultiPress FMP	Wilo-EMHIL	Wilo-Sub TWI 5/TWI 5-SE Wilo-Sub TWI 5-SE PnP
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
Design	Non-self-priming multistage centrifugal pumps	Non-self-priming water-supply unit with frequency converter	Submersible pumps
Application	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation	→ Water supply → Rainwater utilisation → Irrigation and spraying	For domestic water supply from wells, rainwater storage tanks, and reservoirs. For irrigation, sprinkling, rainwater utilisation or for pumping out water
Volume flow Q max.	8 m³/h	55 m³/h	16 m³/h
Delivery head H max.	57 m	8 m	88 m
Technical data	<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/R 1 - HMP 3.. Rp 1/Rp 1; HMP 6.. Rp 1¼/Rp 1 	<ul style="list-style-type: none"> → Max. operating pressure: 10 bar → Max. fluid temperature: 40 °C → Min. fluid temperature: 0 °C → Max. ambient temperature: 50 °C → Mains connection: 1~230 V, 50/60 Hz 	<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
Equipment/function	<ul style="list-style-type: none"> → Directly flanged motor → Thermal motor protection switch for 1~230 V version 	<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)
Special features	<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 	<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 (32 characters) with plain text display - 4 LEDs for clear status display - Simplified menu navigation - Plug & Pump → In accordance with EMC standards EN 61000-6-2 and EN 61000-6-3 → APP function: periodic analysis of the system behaviour and automatic adjustment of the control parameters (PID) → AIS function: automatic short-period running to prevent freezing at temperatures < 5 °C → ART function: system automatically attempts to 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 → Installation outside water is possible → Thermal motor protection for EM version (1~230 V)
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply



Product range	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
Series	Wilo-Helix EXCEL	Wilo-Helix VE	Wilo-Helix V
Field of application	Water distribution/boosting	Water distribution/boosting	Water distribution/boosting, professional irrigation/agriculture
Design	Non-self-priming, highly efficient, fully stainless-steel high-pressure multistage centrifugal pump with EC motor in vertical design with integrated high-efficiency drive and in-line connections	Non-self-priming multistage pump with integrated frequency converter	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 → 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.	58 m ³ /h	80 m ³ /h	80 m ³ /h
Delivery head H max.	243 m	240 m	280 m
Technical data	<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 (for the series) 	<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 (for the series) 	<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 (for the series)
Equipment/function	<ul style="list-style-type: none"> → Impellers, diffusers and stage housings made of corrosion-resistant material → Version in stainless steel 1.44XX 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 in accordance with ISO 2531 and ISO 7005 - Helix EXCEL 22 - 36, PN 16 and PN 25/Pmax: 30 bar with round flanges in accordance with ISO 2531 and ISO 7005 → High-efficiency EC motor (efficiencies > IE4 acc. to IEC TS 60034-31 Ed.1) 	<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 with 1.44xx stainless steel designed 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 with 1.44xx stainless steel designed 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 in accordance with ISO 2531 and ISO 7005 - Helix V 22 - 52, 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
Special features	<ul style="list-style-type: none"> → Efficiency-optimised, laser-welded 2D/3D high-efficiency hydraulics (MEI ≥ 0.7) → Integrated electronic control "High-Efficiency Drive" with wide control range → Control modes: speed control, constant pressure, PID → The spacer coupling allows the mechanical seal to be replaced without removing the motor (from 7.5 kW) → Intermediate bearings (Al203/CW) for long service life → 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 2D/3D high-efficiency hydraulics (MEI ≥ 0.7) → 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 2D/3D high-efficiency hydraulics (MEI ≥ 0.7) → 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)
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



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
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 m³/h	155 m³/h	14 m³/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 → Emitted interference in compliance with EN 61000-6-1 → Interference resistance in compliance with 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 DIN 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 and PN 25 with round DIN flanges - MVI 70.. to 95.. PN 16/PN 25 with round DIN flanges - Victaulic connections (PN 25) depending on pump type → IE2/IEC standard motor, 2-pole, AC or DC version. Single-phase AC motor with integrated thermal motor protection 	<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 LCD display for status indication → 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 1.4301 (AISI 304) or 1.4404 (AISI 316L) → MVIE 70..-95.. depending on pump type in stainless steel 1.4404 (AISI 316L) or 1.4301 (AISI 304) with pump housing made of cathaphoretic-coated EN-GJL-250 cast iron → All relevant components have KTW and WRAS approval → Other sizes (MVIE 16..-6, MVIE 16, MVIE 32 and MVIE 52) are offered 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 1.4301 (AISI 304) or 1.4404 (AISI 316L) → MVI 70..-95.. depending on pump type in stainless steel 1.4404 (AISI 316L) or 1.4301 (AISI 304) with pump housing made of cathaphoretic-coated EN-GJL-250 cast iron → All relevant components have KTW and WRAS approval → Other sizes (MVI 16..-6, MVI 16, MVI 32 and MVI 52) are offered 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 1.4301 (AISI 304) → All relevant components have KTW and WRAS approval
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com



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
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 m³/h	32 m³/h	25 m³/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 1.4301 (AISI 304) or 14404 (AISI 316L) → 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 1.4301 (AISI 304) or 1.4404 (AISI 316) → 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



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-Comfort-Vario COR-1 Helix VE ... Wilo-SiBoost Smart 1 Helix VE ... Wilo-Comfort-Vario COR-1 MHIE...
Field of application	Water distribution/boosting	Water distribution/boosting	Water distribution/boosting
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
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"> → 1 pump of the MVIE, Helix VE, MHIE or MVICE series with integrated frequency converter → All parts that come in contact with the fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Check valve, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 I, 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 → IE2 standard motors → Optimised hydraulics → Cartridge mechanical seal → Pressure boosting systems with installed pumps MVIE 16..-6, MVIE 16, MVIE 32 and MVIE 52 are offered only outside the EU member states.
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	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
Design	Water supply systems with a non-self-priming, high-pressure multistage centrifugal pump	Water supply systems with system separation and a non-self-priming, high-pressure multistage centrifugal pump	Highly efficient pressure boosting system with 2 to 4 stainless steel, non-self-priming, high-pressure multistage centrifugal pumps (Helix V, VE or EXCEL) switched in parallel, including Smart Controller SC (available with and without frequency converter FC)
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 (except for fire extinguishing systems in accordance with DIN 14462) or other service water
Volume flow Q max.	135 m³/h	8 m³/h	132 m³/h
Delivery head H max.	160 m	110 m	158 m
Technical data	→ 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	→ 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	→ 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	→ 1 pump of the MVIS, MVI or Helix V series → 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 → Check valve, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side	→ 1 pump of MVI series → PE break tank, atmospherically ventilated (120 l) → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel 1.4571 → Check valve, 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	→ 2 to 4 pumps per system → 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 → Base frame made of galvanised steel, with height-adjustable vibration absorbers, cable inlet, and integrated hoisting gear → Check valve on the suction and pressure sides of each pump → Non-return valve, on the pressure side → Pressure sensor, pressure side → Pressure gauge, pressure side → Optional low-water cut-out switch-gear with pressure gauge, suction side
Special features	For systems with MVIS pump → Up to 20 dB(A) quieter than comparable systems For systems with Helix V pump → IE2 standard motors → Optimised hydraulics → Cartridge mechanical seal → Systems with MVI 16...-6, 16, 32, 52 are offered only outside the EU member states	→ Compact system, ready for connection, for all applications that require system separation	→ 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 → SC control device
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	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 MWISE .../VR Wilo-Comfort-Vario-COR 2-4 MVIE .../VR Wilo-Comfort-Vario COR2 -4 Helix VE ...	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
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 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 m³/h	800 m³/h	800 m³/h
Delivery head H max.	159 m	160 m	160 m
Technical data	→ 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	→ 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	→ 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	→ 2 to 4 pumps per system → Continuous auto control due to pumps with integrated frequency converters → Components that come in contact with fluid are corrosion-resistant → Base frame, galvanised, with height-adjustable vibration absorbers → Pipework made of stainless steel 1.4571 → Check valve 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	→ 2 to 6 pumps per system → 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 → Base frame, galvanised, with height-adjustable vibration absorbers → Pipework made of stainless steel 1.4571 → Check valve 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	→ 2 to 4 or 2 to 6 pumps per system → Components that come in contact with fluid are corrosion-resistant → Base frame, galvanised, with height-adjustable vibration absorbers → Pipework made of stainless steel 1.4571 → Check valve 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	→ Compact system with excellent value for money 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 → Series with Helix VE with IE2 motors For systems with MWISE pumps → Up to 20 dB(A) quieter than comparable systems → Systems with MVIE 16...-6, 16, 32, 52 are offered only outside the EU member states	→ Easy-to-use system in accordance with all requirements of DIN 1988 (EN 806) → Speed-controlled base-load pump → Series with Helix V and VE with IE2 motors → Series with Helix VE integrated frequency converter For systems with MVIS pumps → Up to 20 dB(A) quieter than comparable systems → Systems with MVI 16...-6, 16, 32, 52 are offered only outside the EU member states	→ Compact system in accordance with the requirements of DIN 1988 (EN 806) → Series with Helix V with IE2 motors For systems with MVIS pumps → Up to 20 dB(A) quieter than comparable systems → Systems with MVI 16...-6, 16, 32, 52 are offered only outside the EU member states
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	Multi-pump pressure boosting systems	Submersible pumps	Submersible pumps
Series	Wilo-FLA	Wilo-Sub TWU 3 Wilo-Sub TWU 3-...-HS	Wilo-Sub TWU 4 ... Wilo-Sub TWU 4 ...-QC Wilo-Sub TWU 4 ...-GT
Field of application	Fire fighting	Rainwater utilisation, raw water intake	Rainwater utilisation, raw water intake
Design	Pressure boosting system for fire extinguishing applications with 1 to 2 autonomously operating, non-self-priming, stainless steel, high-pressure, multistage centrifugal pumps	Submersible pump, multistage	Submersible pump, multistage
Application	For supply of fire extinguishing water from fire hose reels in accordance with DIN 14462 from 04/2009	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
Volume flow Q max.	100 m³/h	6.5 m³/h	22 m³/h
Delivery head H max.	159 m	130 m	322 m
Technical data	<ul style="list-style-type: none"> → Mains connection 3~230/400 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: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → 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 → Protection class: IP 58 → Pressure connection: Rp 1 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 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 → Protection class: IP 68 → Minimum efficiency index MEI ≥ 0.1 (for the series)
Equipment/function	<ul style="list-style-type: none"> → 1 to 2 pumps per system → Components that come in contact with fluid are corrosion-resistant → Base frame galvanised, with height-adjustable vibration absorbers for insulation against structure-borne noise → Pipework made of stainless steel 1.4571 → Check valve 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 → Comes as standard with pump protection by means of minimum volume discharge via bypass circuit without auxiliary energy. 	<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
Special features	<ul style="list-style-type: none"> → Compact system for fire fighting applications in accordance with all requirements of DIN 14462 → Variants <ul style="list-style-type: none"> - Single-pump system - Double-pump system with two independent 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"> → Rewindable motor → Integrated non-return valve → Parts that come in contact with fluids are corrosion-free → Pump connection head and flange made of stainless steel → Vertical and horizontal installation possible → Single-phase version with starting capacitor and On/Off switch → HS variant with expanded output due to increased speed (up to 8400 rpm) 	<ul style="list-style-type: none"> → Integrated non-return valve → Parts that come in contact with fluids are corrosion-free → Vertical and horizontal installation possible → Low-wearing due to floating impellers → Quick and easy extension of motor cable, without dismantling the pump (TWU 4-...-QC)
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	Submersible pump system	Submersible pumps	Submersible pumps
Series	Wilo-Sub TWU 3 ... Plug & Pump Wilo-Sub TWU 4 ... Plug & Pump	Wilo-Sub TWU 6 ... Wilo-Sub TWU 8 ...	Wilo-Sub TWI 4 ... Wilo-Sub TWI 6 ... Wilo-Sub TWI 8 ... Wilo-Sub TWI 10 ...
Field of application	Rainwater utilisation, raw water intake	Raw water intake, professional irrigation/agriculture	Rainwater utilisation, water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture
Design	Water supply unit with submersible pump, control and complete accessories	Submersible pump, multistage	Submersible pump, multistage
Application	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	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
Volume flow Q max.	6 m ³ /h	132 m ³ /h	165 m ³ /h
Delivery head H max.	88 m	380 m	500 m
Technical data	<ul style="list-style-type: none"> → Mains connection: 1~230 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: <ul style="list-style-type: none"> - TWU 3- ... : 150 m - TWU 4- ... : 200 m → Protection class: <ul style="list-style-type: none"> - TWU 3- ... : IP 58 - TWU 4- ... : IP 68 → MEI: ≥ 0.70 (for the series TWU 4) 	<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: 0.16 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 → Protection class: IP 68 → MEI: ≥ 0.10 (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 → Protection class: IP 68 → MEI: ≥ 0.10 (for the series TWI 4 and TWI 6)
Equipment/function	<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) 	<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 (TWI 4 only) or three-phase AC motor → Hermetically sealed or rewindable (TWI 6 ... / TWI 8 ... / TWI 10...) motors
Special features	<ul style="list-style-type: none"> → Electrical system components already pre-wired → Easy installation and operation → Integrated non-return valve 	<ul style="list-style-type: none"> → Impellers made of bronze → Integrated non-return valve → Immersion depth up to 350 m → Vertical and horizontal installation possible 	<ul style="list-style-type: none"> → Unit made completely of stainless steel → Integrated non-return valve → Vertical and horizontal installation possible → Standard and configurable versions available (TWI 6 ... / TWI 8 ... / TWI 10...) → Star-delta version → Rewindable motors
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply Water Management catalogue: Water supply – Raw water intake	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply Water Management catalogue: Water supply – Raw water intake



Product range	Sprinkler pumps with VdS approval	Submersible pumps	Submersible pumps
Series	Wilo-EMU sprinkler pumps	Wilo-EMU 6" series Wilo-EMU 8" series Wilo-EMU 10"...24" series	Wilo-EMU polder pumps
Field of application	Fire fighting	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
Design	Submersible pump with sectional construction	Submersible pump with sectional construction	Polder pump
Application	Supplying sprinkler systems	Supply of potable and other water from boreholes and rainwater storage tanks; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the ground water level; utilisation of geothermal energy and in offshore applications; supply of water to decorative fountains, snow cannons and water organs	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.	580 m³/h	2,400 m³/h	1,200 m³/h
Delivery head H max.	140 m	560 m	160 m
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V/50 Hz → Immersed operating mode: S1 → 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 → Protection class: IP 68 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → 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 → Protection class: IP 68 → Control range for frequency converter: 25...50 or 30...50 Hz → MEI: ≥ 0.10 (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 → Protection class: IP 68 → Control range for frequency converter: <ul style="list-style-type: none"> – 2-pole: 25–50 Hz – 4-pole: 30–50 Hz
Equipment/function	<ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → NEMA coupling (depending on type) → Three-phase motor for direct or star-delta start → Rewindable motors 	<ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Integrated non-return valve (depending on type) → NEMA coupling or standardised connection (with motors 10" and greater) → 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"> → VdS certification → Certified non-return valve available as accessory → Version in bronze material → Pressure shroud installation possible → Vertical and horizontal installation possible 	<ul style="list-style-type: none"> → Corrosion-resistant impellers → Special materials possible → Impeller trimming allows custom adaptation to duty point → Motors with CoolAct technology for high power density (with motors 10" and greater) → High voltage up to 6000 V possible → Vertical and horizontal installation possible → Ceram CT coating possible to increase efficiency (with hydraulics 8" and greater) → Pressure shroud installation possible 	<ul style="list-style-type: none"> → Deep water lowering → Self-cooling design → Easy installation on the ascending pipe → Wear-resistant design due to different material versions → Compact design → Rewindable motors → Impeller trimming allows custom adaptation to duty point → Ceram CT coating possible to increase efficiency
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply	Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake	Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake



Product range	Vertical turbine pumps	Standard glanded pumps	Standard glanded pumps
Series	Series VMF, CNE, VAF	Wilo-CronoNorm-NL	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG
Field of application	Water distribution/boosting, industrial process	Heating, air-conditioning, cooling, water supply, industrial process	Heating, air-conditioning, cooling, water supply, industrial process
Design	Vertical turbine pumps for dry well installation with submerged axial or semi-axial hydraulics	Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate	Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate
Application	For industrial or municipal water supply and → Irrigation → Fire fighting → Cooling water supply → Dewatering and flood control	→ Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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.	→ Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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.	40,000 m ³ /h	650 m ³ /h	2,800 m ³ /h
Delivery head H max.	450 m	150 m	140 m
Technical data	→ Permitted temperature range up to 80 °C, or up to 105 °C on request → Nominal diameter on pressure side DN 100 to DN 2000	→ Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (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	→ Permitted temperature range of the fluid -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	For types of installation with pressure port, for concealed floor, floor-mounted or twin-ceiling installation → Design: – As removable or permanent installation – With axial or semi-axial, single or multistage hydraulics – With open shaft for bearing lubrication with the fluid, or with shaft trim for separate bearing lubrication → Drive options: Electric motor, diesel motor or steam turbine	→ Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary 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 Materials: → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG → Other materials on request	→ Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary 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 Materials for NLG: → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG Materials for NPG: → Pump housing: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Other materials on request
Special features	→ Minimum surface area needed → High hydraulic efficiency → Submerged pump hydraulics → Design to order as per customer specifications	→ Motors with higher efficiency as standard; motors with IE2 technology if rated motor power is 0.75 kW or more	→ 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	Documentation on request	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com



Product range	Axially split case pumps	Self-priming drainage pumps	Pedestal pumps
Series	Wilo-SCP	Wilo-Drain LP Wilo-Drain LPC	Wilo-Drain VC
Field of application	Cooling, air-conditioning, water distribution/boosting, industrial process	Water distribution/boosting, professional irrigation/agriculture, wastewater collection and transport, dewatering (including flood control)	Professional irrigation/agriculture, special applications, dewatering, industrial process
Design	Low-pressure centrifugal pump with axially split housing mounted on a baseplate	Self-priming drainage pumps for dry well installation	Vertical drainage pumps
Application	Pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water Applications in municipal water supply, irrigation, building services, general industry, power stations, etc.	For pumping 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
Volume flow Q max.	3,400 m³/h	60 m³/h	14 m³/h
Delivery head H max.	245 m	29 m	20 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameter on suction side DN 65 to DN 500 → Nominal diameter on pressure side DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Fluid temperature 3 °C to 35 °C → Free ball passage 5 to 12 mm, depending on type → Connection Rp 1½ to G3 	<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
Equipment/function	1- or 2-stage, low-pressure centrifugal pump in monobloc design → Delivered as complete unit (pump with coupling, coupling protection, motor and baseplate) or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors Materials: → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13	→ Portable self-priming centrifugal pump	→ Attached float switch → Capacitor box (VC 32, 1~)
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"> → High operational reliability → Easy handling → Easy operation 	<ul style="list-style-type: none"> → Long service life → Easy commissioning → Connection outside the fluid zone → Long standstill times possible → Integrated motor protection by thermal relay and control electrode
Information	Online catalogue: productfinder.wilo.com	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering



Product range	Submersible sewage pumps
Series	Wilo-EMU KPR ...
Field of application	Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering
Design	Axial submersible pump with glanded motor for use in pipe sumps
Application	Pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge
Volume flow Q max.	9,500 m ³ /h
Delivery head H max.	8.4 m
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Protection class: IP 68 → Max. fluid temperature: 40 °C; higher temperatures on request → Sealing with two mechanical seals or one block seal cartridge, depending on motor → Free ball passage of 85 to 130 mm → Short common pump/motor shaft → Permanently lubricated roller bearings → Max. immersion depth: 20 m
Equipment/function	→ Heavy-duty version made of cast iron
Special features	<ul style="list-style-type: none"> → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet → Angle of propeller blades adjustable by hand
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment

Wilo-Helix EXCEL

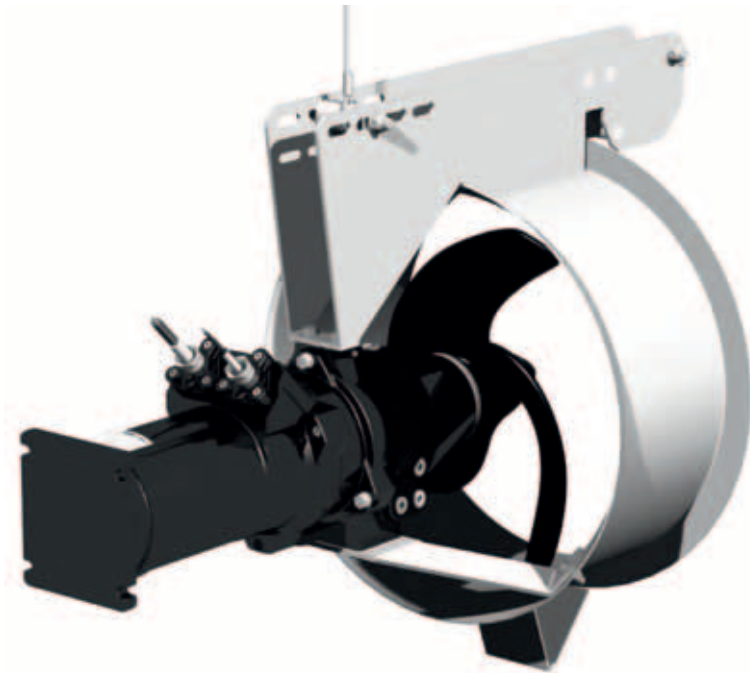


“The high reliability of Wilo products means they excel even in unusual installation locations.”



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.

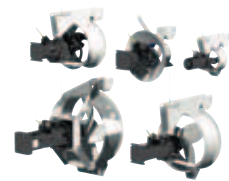
The solution: Wilo recirculation pumps to pump large volumes of water to low heights.



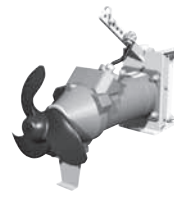
Product range	Submersible pumps	Submersible drainage pumps	Pedestal pumps
Series	Wilo-EMU 8" series Wilo-EMU 10"...24" series	Wilo-Drain TMT Wilo-Drain TMC	Wilo-Drain VC
Field of application	Water distribution/boosting, clean water treatment, raw water intake, desalination, professional irrigation/agriculture	Special applications, dewatering, industrial process	Professional irrigation/agriculture, special applications, dewatering, industrial process
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; supply of water to decorative fountains, snow cannons and water organs	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 → Immersed operating mode: S1 → 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 → Protection class: IP 68 → Control range for frequency converter: 25...50 or 30...50 Hz 	<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 (with motors 10" and greater) → 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 → Capacitor box (VC 32, 1~)
Special features	<ul style="list-style-type: none"> → Corrosion-resistant impellers → Special materials possible → Impeller trimming allows custom adaptation to duty point → Motors with CoolAct technology for high power density (with motors 10" and greater) → High voltage up to 6000 V possible → Vertical and horizontal installation possible → Ceram CT coating possible to increase efficiency (with hydraulics 8" and greater) → Pressure shroud installation possible 	<ul style="list-style-type: none"> → High temperature resistance → Also suitable for aggressive media 	<ul style="list-style-type: none"> → Long service life → Easy commissioning → Connection outside the fluid zone → Long standstill times possible → Integrated motor protection by thermal relay and control electrode
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering



Product range	Submersible sewage pumps	Submersible sewage pump	Submersible sewage pumps
Series	Wilo-Drain TP 80 Wilo-Drain TP 100	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
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 m³/h	95 m³/h	7,950 m³/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"> → Stainless steel & composite → ATEX approval as standard → Low weight → Detachable connection cable → Cooling jacket as standard → Corrosion-resistant (e.g. swimming-pool water, salt water, etc.) 	<ul style="list-style-type: none"> → Vortex impeller non-susceptible to clogging → Seal by two mechanical seals → Optional external sealing chamber control for the oil barrier chamber → Very smooth operation → Easy installation due to suspension unit or pump base → Ex-rated in accordance with ATEX as standard → Longitudinally watertight cable inlet → Operation with frequency converter 	<ul style="list-style-type: none"> → Operation in stationary and portable wet well and dry well installation → Easy installation via suspension unit or pump base → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet (depending on motor) → Adjustment of duty point by trimming the impeller
Information	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment



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
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 (RZP 20 ..., RZP 25-2 ... RZP 40...) or with single-stage planetary gear (RZP 50-3 ..., RZP 60-3 ..., RZP 80-2 ...)
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 drainage 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 m³/h	9,500 m³/h	6,800 m³/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"> → Operation in stationary and portable wet well installation → Version made completely of cast stainless steel 1.4581 → Easy installation via suspension unit or pump base → Longitudinally watertight cable inlet → Adjustment of duty point by trimming the impeller 	<ul style="list-style-type: none"> → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet → Angle of propeller blades adjustable by hand 	<ul style="list-style-type: none"> → Submersible → Vertical or in-line design → Self-cleaning propeller, in part with helix hub → Propeller in steel or PUR version → ATEX and FM versions
Information	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production) – Wastewater treatment</p>	<p>Online catalogue: productfinder.wilo.com</p> <p>Water Management catalogue: Drainage and sewage – Wastewater treatment</p>



Product range	Submersible mixer	Submersible mixer	Submersible mixer
Series	Wilo-EMU TR 14 to TR 28	Wilo-EMU TR 22 to TR 40	Wilo-EMU TR 50-2 to TR 120-1 Wilo-EMU TRE 90-2 with IE3 motor
Field of application	Special applications, wastewater treatment	Special applications, wastewater treatment	Special applications, wastewater treatment
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 → ATEX and FM versions → Self-cleaning propeller with helix hub → Easy-to-install propeller attachment → Propeller in steel or PUR version → Optional: Motor shaft made of 1.4462 material 	<ul style="list-style-type: none"> → Self-cleaning propeller with helix hub → Easy-to-install propeller attachment → Propeller in steel or PUR version → ATEX and FM versions 	<ul style="list-style-type: none"> → Single-stage planetary gear for adapting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel, PUR or PUR/GRP version → ATEX and FM versions → Gear shaft 1.4462 → Type "TRE" with IE3 performance optimised motors (derived from IEC 60034-30)
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment



Product range	Submersible mixer	Submersible mixer	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 BG 75-2 Wilo-Sevio MIX BG 80-1 Wilo-Sevio MIX BG 120-1	Wilo-Sevio MIX DM 50-2
Field of application	Special applications, wastewater treatment	Special applications, industrial process	Special applications, industrial process
Design	Slow-running submersible mixer with two-stage planetary gear reduction	Submersible mixer with single-stage planetary gear	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	Energetically optimised mixing and circulation of activated sludge	Pumping of drilling mud on on-shore and off-shore installations
Volume flow Q max.	Thrust: 390 – 4950 N	Thrust: 1145 – 6620 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: 60 °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: 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 → Single-stage planetary gear 	<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"> → 2-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Propeller blades can be replaced individually → Easy-to-install blades and hub → Propeller in GRP version → ATEX and FM versions → Gear shaft 1.4462 → Type "TRE" with IE3 performance optimised motors (derived from IEC 60034-30) 	<ul style="list-style-type: none"> → 1-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel, PUR or PUR/GRP version → ATEX approval for 60 °C fluids → Gear shaft 1.4462 → Mechanical seal with internal spring loading 	<ul style="list-style-type: none"> → 1-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel version → ATEX approval for 90 °C fluids → Gear shaft 1.4462 → Heat-resistant housing coating → Special cable for high temperatures
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Documentation on request	Documentation on request

Wilo-EMU FA



**“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, pu-
rification 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
Design	Self-priming drainage pumps for dry well installation	Submersible drainage pumps	Vertical drainage pumps
Application	Pumping of 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 m³/h	22 m³/h	14 m³/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	<ul style="list-style-type: none"> → Attached float switch → Capacitor box (VC 32, 1~)
Special features	<ul style="list-style-type: none"> → High operational reliability → Easy handling → Easy operation 	<ul style="list-style-type: none"> → High temperature resistance → Also suitable for aggressive media 	<ul style="list-style-type: none"> → Long service life → Easy commissioning → Connection outside the fluid zone → Long standstill times possible → Integrated motor protection by thermal relay and control electrode
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)



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
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 overflows and flooding → For draining basement stairways and basement areas → From domestic areas (washing machine water, soapsuds) → 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 m³/h	53 m³/h	340 m³/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 → Connection cable → Hose connection → Turbulator (TMW, TSW) → Float switch (depending on type) → Non-return valve enclosed (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"> → Inox & composite → Low weight → Detachable connection cable → Float switch for model A → Thermal motor monitoring for AC motor without switchgear 	<ul style="list-style-type: none"> Modular material system: → Normal cast iron version → Wear protection due to ceramic coating → Pump components made of Abrasite (chilled cast iron) → With Ex protection, depending on type
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 Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)



Product range	Submersible sewage pumps with macerator	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-Drain MTC... Wilo-Drain MTS...	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
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 m³/h	22 m³/h	20 m³/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 → Non-immersed operating mode: S2-15 min or S3 25 % (depending on type) → 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"> → Heavy-duty version made of cast iron → Unimpeded flow to the impeller → Maceration of substances being conveyed → Simple installation via suspension unit or pump base → Attached float switch (only model A) <p>MTC:</p> <ul style="list-style-type: none"> → External macerator <p>MTS:</p> <ul style="list-style-type: none"> → Innovative patented macerator → Internal rotating blade → Spherically formed macerator → Pulling cut (shearing cut) 	<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"> → Oil barrier chamber → High efficiency → Mechanical seal on pump side made of solid silicon carbide → External hardened macerator (MTC) → Internal, spherically formed macerator (MTS) → Longitudinally watertight cable → Version with Ex protection (depending on type) 	<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	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	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	Rexa FIT 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
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 → A-model including float switch and plug → 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 → Leakage detection for the motor compartment (Rexa PRO)
Special features	<ul style="list-style-type: none"> → Detachable connection cable → Stainless-steel glanded motor → Attached float switch (A-model) enables easy operation → Low weight → Wide range of pump curves → Motor housing optionally available in 1.4435 	<ul style="list-style-type: none"> → Stainless steel & composite → ATEX approval as standard (not for "AM" version) → Low weight → Detachable connection cable → Cooling jacket as standard → Corrosion-resistant (e.g. swimming-pool water, salt water, etc.) 	<ul style="list-style-type: none"> → Vortex impeller non-susceptible to clogging → Seal by two mechanical seals → Optional external sealing chamber control for the oil barrier chamber → Very smooth operation → Easy installation via suspension unit or pump base → Equipped as standard with Ex protection in accordance with ATEX (Rexa PRO) → Longitudinally watertight cable inlet (Rexa PRO) → Operation with frequency converter (Rexa PRO)
Information	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage



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
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 m³/h	7,950 m³/h	70 m³/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	<ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Simple installation via suspension unit or pump base 	<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 	<ul style="list-style-type: none"> → Heavy-duty version made of cast stainless steel (1.4581) → Simple installation via suspension unit or pump base
Special features	<ul style="list-style-type: none"> → Operation in stationary and portable wet well installation → Heavy-duty version made of cast iron → Easy installation via suspension unit or pump base → Longitudinally watertight cable inlet → ATEX approval 	<ul style="list-style-type: none"> → Operation in stationary and portable wet well and dry well installation → Easy installation via suspension unit or pump base → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet (depending on motor) → Adjustment of duty point by trimming the impeller 	<ul style="list-style-type: none"> → Operation in stationary and portable wet well installation → Version made completely of cast stainless steel 1.4581 → Easy installation via suspension unit or pump base → Longitudinally watertight cable inlet → Adjustment of duty point by trimming the impeller
Information	Online catalogue: productfinder.wilo.com Building services catalogue: Drainage and sewage	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production)	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)



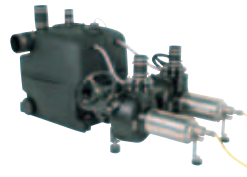
Product range	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-EMU FA...WR	Wilo-EMU KPR ...
Field of application	Wastewater collection and transport, wastewater treatment	Raw water intake, professional irrigation/agriculture, special applications, wastewater treatment, dewatering
Design	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 → Self-cooling motors with 1- or 2-chamber system → Simple installation via suspension unit or pump base → Mechanical stirring apparatus is fastened directly to the impeller → Mixer head made of Abrasite (chilled cast iron) 	<ul style="list-style-type: none"> → Heavy-duty version made of cast iron
Special features	<ul style="list-style-type: none"> → Operation in stationary and portable wet well installation → Avoidance of deposits in the suction area of the pump → Easy installation via suspension unit or pump base → Coatings against abrasion and corrosion → Longitudinally watertight cable inlet (depending on motor) → Adjustment of duty point by trimming the impeller 	<ul style="list-style-type: none"> → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet → Angle of propeller blades adjustable by hand
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (order-specific production) – Wastewater treatment



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
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	→ 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	→ Mains connection 1~230 V, 50 Hz → Max. fluid temperature 35 °C → Protection class IP 67 → Gross tank volume 85 l → Switching volume: 22 l, for type 40/10: 30 l	→ Mains connection 1~230 V, 50 Hz → 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	→ 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)	→ 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 (thermal winding contact) → Level control with float switch	→ 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	→ 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)	→ 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	→ Modern, space-saving design → Easy installation due to self-sealing, direct toilet connection
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	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-DrainLift L
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
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"> → Easy to install due to: <ul style="list-style-type: none"> - Low weight - Large scope of delivery → Flexible due to <ul style="list-style-type: none"> - Freely selectable inlets - Front-wall-like installation - Space-saving installation (depth 30 cm) → Safe due to <ul style="list-style-type: none"> - Dependable pneumatic level measurement 	<ul style="list-style-type: none"> → Easy to install due to: <ul style="list-style-type: none"> - Low weight - Only one pressure outlet with double-pump system (integrated Y-pipe) - Integrated non-return valve → Flexible due to <ul style="list-style-type: none"> - Freely selectable inlets → Safe due to <ul style="list-style-type: none"> - Large tank volume - Mains-independent alarm function - Additional potential-free contact - Integrated thermal motor protection → Maintenance interval display and early error detection (DrainLift M2/8)
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

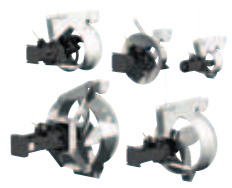


Product range	Sewage lifting unit with 2 integrated pumps	Sewage lifting unit with 2 pumps for dry well installation	Pumps station with synthetic tank
Series	Wilo-DrainLift XL	Wilo-DrainLift XXL	Wilo-DrainLift WS 40 Basic Wilo-DrainLift WS 40-50
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
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"> → Easy installation / commissioning due to <ul style="list-style-type: none"> - Integrated non-return valve - Higher flexibility in the intake area (connection is height-adjustable and can be swivelled) - Menu-prompted setting on switchgear → Safe due to <ul style="list-style-type: none"> - Large switching volume - Additional potential-free contact - Reliable level measurement due to level sensor - Suitable for endurance running (due to integrated sheath current cooling) 	<ul style="list-style-type: none"> → Large tank volume → Low weight → Wide performance range → Suitable for endurance running (due to integrated sheath current cooling) 	<ul style="list-style-type: none"> → Freely selectable inlets → Flexible use: as lifting unit inside buildings or as pumps station outside buildings. → Large tank volume (255/400 l) → Flexible installation due to optional sump extension → Easy installation and maintenance of the pumps due to surface coupling when Wilo-Drain pumps TP 50 and/ or TP 65 are used → Also with macerator pumps Wilo-Drain MTS 40/21 ... 27
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



Series extension

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
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"> → Small sump diameter (625 mm) → Flexible use due to different installation heights → Complete due to integrated fittings and seals → Can be walked on or driven over, depending on optional cover → Also with Wilo-Drain MTS 40/21... macerator pumps 27 	<ul style="list-style-type: none"> → Deposit-free collection space → Maximum stability due to hemispherically shaped sump floor → 2/4 inlets can be selected on site → V4A stainless steel pipework → Also with Wilo-Drain MTC 32, MTC 40, MTS 40 macerator pumps
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-EMUport FTS MG... Wilo-EMUport FTS MS... Wilo-EMUport FTS FG... Wilo-EMUport 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
Design	Pumping station for floor mounting or concealed floor installation, in PEHD	Polder pump	Submersible mixers with housing unit, directly driven (RZP 20 ..., RZP 25-2 ... RZP 40...) or with single-stage planetary gear (RZP 50-3 ..., RZP 60-3 ..., RZP 80-2 ...)
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 drainage 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 → Protection class: IP 68 → Control range for frequency converter: - 2-pole: 25–50 Hz - 4-pole: 30–50 Hz	→ 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	→ Low maintenance and operating costs → Pump room is dry, clean and odourless → Thanks to dual pump operation, the system remains fully functional even during the maintenance of a pump → Low wear	→ Deep water lowering → Self-cooling design → Easy installation on the ascending pipe → Wear-resistant design due to different material versions → Compact design → Rewindable motors → Impeller trimming allows custom adaptation to duty point → Ceram CT coating possible to increase efficiency	→ Submersible → Vertical or in-line design → Self-cleaning propeller, in part with helix hub → Propeller in steel or PUR version → ATEX and FM versions
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



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
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 → ATEX and FM versions → Self-cleaning propeller with helix hub → Easy-to-install propeller attachment → Propeller in steel or PUR version → Optional: Motor shaft made of 1.4462 material 	<ul style="list-style-type: none"> → Self-cleaning propeller with helix hub → Easy-to-install propeller attachment → Propeller in steel or PUR version → ATEX and FM versions 	<ul style="list-style-type: none"> → 1-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel, PUR or PUR/GRP version → ATEX and FM versions → Gear shaft 1.4462 → Type "TRE" with IE3 performance optimised motors (derived from IEC 60034-30)
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment



Product range	Submersible mixer	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
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 m³/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* <p>A loading of 7.5 Nm³/h* is possible for short periods (max. 15 minutes).</p> <p>* The values for loading apply under standard conditions: 0 °C and 1013 hPa.</p>
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"> → 2-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Propeller blades can be replaced individually → Easy-to-install blades and hub → Propeller in GRP version → ATEX and FM versions → Gear shaft 1.4462 → Type "TRE" with IE3 performance optimised motors (derived from IEC 60034–30) 	<ul style="list-style-type: none"> → Height-adjustable for optimum suction of the biomass particles → Outlet angle can be customised → Easy to install → ATEX and FM approval 	<ul style="list-style-type: none"> → Customised configuration of the system to suit the applicable requirements → Easy replacement of the disc aerator → Diaphragm can be replaced separately
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater treatment	Documentation on request	Documentation on request

Wilo-DrainLift XL



**“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.



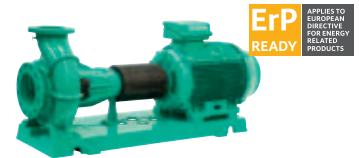
Salzgitter Flachstahl GmbH, Salzgitter, Germany.
Long lifetimes make for low operating costs.

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.

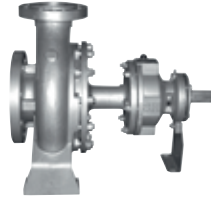
The solution: A highly wear-resistant Wilo-EMU FA 30 submersible pump was used for more than a year and was replaced by two installers in just two days.

Result: Extremely low life cycle costs.

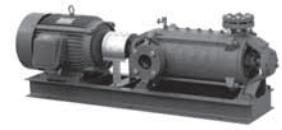




Product range	Glanded monobloc pumps	Standard glanded pumps	Standard glanded pumps
Series	Wilo-CronoBloc-BL	Wilo-CronoNorm-NL	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, water supply, industrial process	Heating, air-conditioning, cooling, water supply, industrial process
Design	Glanded pump in monobloc design with flange connection	Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate	Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate
Application	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	<ul style="list-style-type: none"> → Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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"> → Pumping clean or slightly contaminated water (max. 20 ppm) without solid matter, for circulation, transfer and pressure boosting purposes → 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.	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"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (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"> → Permitted temperature range of the fluid -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	<p>Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with</p> <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → IEC standard motor <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing (standard): EN-GJL-250 optional: EN-GJS-400-18 → Impeller (standard): EN-GJL-200 Special version: red brass G-CuSn10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	<p>Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary wear rings in process design</p> <ul style="list-style-type: none"> → 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 <p>Materials:</p> <ul style="list-style-type: none"> → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG → Other materials on request 	<p>Single-stage horizontal spiral housing pump with bearing bracket and exchangeable stationary wear rings (NLG only) in process design</p> <ul style="list-style-type: none"> → 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 <p>Materials for NLG:</p> <ul style="list-style-type: none"> → Pump housing and pressure lid: EN-GJS-500-7 → Bearing bracket: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Stationary wear rings: G-CuSn10 → Mechanical seal: AQ1EGG <p>Materials for NPG:</p> <ul style="list-style-type: none"> → Pump housing: EN-GJL-250 → Impeller: EN-GJL-250 → Shaft: 1.4028 → Other materials on request
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 → Meets user requirements due to performance and main dimensions in accordance with EN 733 	<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 	<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
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 m³/h	600 m³/h	1,000 m³/h
Delivery head H max.	140 m	90 m	90 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure PN 16 → Minimum efficiency index MEI ≥ 0.1 (NOLH only, for the series) 	<ul style="list-style-type: none"> → Max. permitted fluid temperature NESD: 207 °C NESE: 0 °C ... 120 °C (40 bar) 120 °C ... 200 °C (35 bar) 200 °C ... 230 °C (32 bar) → Minimum fluid temperature: 170 °C → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure NESD: PN 25; NESE: PN 40 	<ul style="list-style-type: none"> → Permitted temperature range up to +350 °C, depending on max. operating pressure: 0 °C ... 120 °C (16 bar) 120 °C ... 300 °C (13 bar) 300 °C ... 350 °C (16 bar) → Nominal diameter on pressure side DN 32 to DN 125 → Max. operating pressure PN 16
Equipment/function	<ul style="list-style-type: none"> → Single-stage, horizontal centrifugal pump with axial suction connection and radial, upwards-facing pressure connection → Dimensions and hydraulic output as per EN 733 → Hydraulics made from cast iron (ML) or stainless steel (MX) depending on version. → Sealed by uncooled mechanical seal → Version with or without spacer coupling → 2 or 4-pole IEC standard motor → Baseplate made from steel or cast iron → Supplied as a complete unit: <ul style="list-style-type: none"> - With pump, coupling, coupling 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
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 m³/h	30 m³/h	1,000 m³/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 - 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



Series extension

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
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	Pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water Applications in municipal water supply, irrigation, building services, general industry, power stations, etc.	For industrial or municipal water supply and → Irrigation → Fire fighting → Cooling water supply → Dewatering and flood control	Pumping of heating water (in accordance with VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.
Volume flow Q max.	3,400 m³/h	40,000 m³/h	120 m³/h
Delivery head H max.	245 m	450 m	52 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Protection class IP 55 → Nominal diameter on suction side DN 65 to DN 500 → Nominal diameter on 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"> → Permitted temperature range of the fluid -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	1- or 2-stage, low-pressure centrifugal pump in monobloc design → Delivered as complete unit (pump with coupling, coupling protection, motor and baseplate) or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors Materials: → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13	For types of installation with pressure port, for concealed floor, floor-mounted or twin-ceiling installation → Design: <ul style="list-style-type: none"> - As removable or permanent installation - With axial or semi-axial, single or multistage hydraulics - With open shaft for bearing lubrication with the fluid, or with shaft trim for separate bearing lubrication → Drive options: Electric motor, diesel motor or steam turbine	Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection → Lantern → Coupling → Electronically controlled EC motor Materials: → Pump housing and lantern: EN-GJL-250 → Impeller: PPS-GF40 → Shaft: 1.4122 → Mechanical seal: AQ1EGG, other mechanical seals on request
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"> → Maximum overall efficiency based on a new Wilo glanded design → Highly efficient EC motor (efficiency higher than IE4 limit values) → High-efficiency hydraulics adapted to the EC motor technology, with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 → Integrated electronic control → Control range is up to three times as high as for conventional electronically controlled pumps → Interfaces to bus communication → Integrated dual-pump management with efficiency-optimised peak-load operation
Information	Online catalogue: productfinder.wilo.com	Documentation on request	Online catalogue: productfinder.wilo.com Building Services catalogue: Heating, air-conditioning, cooling



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-BL-E
Field of application	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process	Heating, air-conditioning, cooling, industrial process
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	680 m³/h	360 m³/h
Delivery head H max.	30 m	65 m	85 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → Protection class IP 55 → Nominal diameter DN 40 to DN 80 → Max. operating pressure 16 bar 	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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 Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: PPO-GF30 → Shaft: 1.4021 → Mechanical seal: AQEGG, other mechanical seals on request 	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 Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: Standard version: EN-GJL-200 Special version: G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	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 R½ → Lantern → Coupling Materials: <ul style="list-style-type: none"> → Pump housing and lantern: Standard: EN-GJL-250; optional: EN-GJS-400-18 → Impeller: Standard: EN-GJL-200; optional: red brass G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request
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 → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Integrated dual pump management → Integrated full motor protection (PTC thermistor sensor) with trip electronics 	<ul style="list-style-type: none"> → Motors with IE2 technology for higher efficiency fitted as standard → Energy savings due to integrated electronic control → Optional interfaces for bus communication using plug-in IF-Modules → Integrated dual pump management → Integrated full motor protection (PTC thermistor sensor) with trip electronics 	<ul style="list-style-type: none"> → Motors with IE2 technology for higher efficiency fitted as standard → Energy savings due to integrated electronic control → Optional interfaces for bus communication using IF-Modules → Access disable on the pump → Integrated full motor protection (PTC thermistor sensor) with trip electronics → Pump bases with threaded hole for installation in the foundation → Condensate drainage holes → Bidirectional mechanical seal with forced flushing → Worldwide obtainability of standard motors and mechanical seals → Meets user requirements due to performance / main dimensions in accordance with EN 733
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
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 m³/h	1,150 m³/h	80 m³/h
Delivery head H max.	52 m	110 m	38 m
Technical data	<ul style="list-style-type: none"> → Permitted temperature range of the fluid -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (for the series) → 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"> → Permitted temperature range of the fluid IPH-W: -10 °C to +210 °C (at max. 23 bar) → Permitted temperature range of the fluid 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	Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection with pressure measuring connection R ½ → Motor with one-piece shaft → DPL with switchover valve Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-250 → Impeller: PPO fibreglass-reinforced/EN-GJL-200 (depending on pump type) → Shaft: 1.4021 → Mechanical seal: AQEGG, other mechanical seals on request 	<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 Materials: <ul style="list-style-type: none"> → Pump housing and lantern: Standard version: EN-GJL-250 Optional: EN-GJS-400-18 → Impeller: Standard: EN-GJL-200 Special version: G-CuSn 10 → Shaft: 1.4122 → Mechanical seal: AQEGG, other mechanical seals on request 	Single-stage, low-pressure centrifugal pump in in-line design with <ul style="list-style-type: none"> → Mechanical seal → Flange connection → Lantern → Motor with special shaft
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 → Standard condensate drainage holes in the motor housings and lanterns → Series version: Motor with one-piece shaft → Version N: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional mechanical seal with forced flushing → Easy to install due to feet with threaded holes on pump housing 	<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 → Standard condensate drainage holes in the motor housings → Can be used flexibly in air-conditioning and cooling systems, with application benefits due to direct draining of condensate (patented) → Bidirectional mechanical seal with forced flushing → Worldwide obtainability of standard motors and mechanical seals → Feet with threaded holes on pump housing 	<ul style="list-style-type: none"> → From 0.75 kW, motors equipped as standard with IE2 technology with higher efficiency → Bidirectional, self-cooled mechanical seal → Great variety of applications due to a wide fluid temperature range without additional wearing 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
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	80 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"> → Permitted temperature range of the fluid -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"> → Permitted temperature range of the fluid -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index MEI ≥ 0.1 (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"> → Permitted temperature range of secondary hot water up to water hardness 4.99 mmol/l (28 °d) max. +65 → 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 Materials: <ul style="list-style-type: none"> → Pump housing and lantern: EN-GJL-200 → Impeller: plastic → Shaft: 1.4021 → Mechanical seal: BVEGG, other mechanical seals on request 	Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port Materials: <ul style="list-style-type: none"> → Pump housing: PA 6.6 50 % GF → Impeller: PA/PPO, fibreglass-reinforced → Shaft: X30Cr13 → Mechanical seal: BQEGG 	<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	→ Worldwide availability of the standard motors used	<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 → Reduced life cycle costs due to optimised efficiency → Pump housing in plastic design → Version with Victaulic or threaded connection (BAC 70/135... with Victaulic connection only) 	<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
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; supply of water to decorative fountains, snow cannons and water organs	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 m³/h	2,400 m³/h	1,200 m³/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 → 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 → Protection class: IP 68 → MEI: ≥ 0.10 (for the series TWI 4 and TWI 6) 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → 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 → Protection class: IP 68 → Control range for frequency converter: 25...50 or 30...50 Hz → MEI: ≥ 0.10 (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 → Protection class: IP 68 → Control range for frequency converter: <ul style="list-style-type: none"> – 2-pole: 25–50 Hz – 4-pole: 30–50 Hz
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 (TWI 4 only) or three-phase AC motor → Hermetically sealed or rewindable (TWI 6 ... / TWI 8 ... / TWI 10...) motors 	<ul style="list-style-type: none"> → Multistage submersible pump → Radial or semi-axial impellers → Hydraulics and motor freely configurable according to power requirements → Integrated non-return valve (depending on type) → NEMA coupling or standardised connection (with motors 10" and greater) → 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"> → Unit made completely of stainless steel → Integrated non-return valve → Vertical and horizontal installation possible → Standard and configurable versions available (TWI 6 ... / TWI 8 ... / TWI 10...) → Star-delta version → Rewindable motors 	<ul style="list-style-type: none"> → Corrosion-resistant impellers → Special materials possible → Impeller trimming allows custom adaptation to duty point → Motors with CoolAct technology for high power density (with motors 10" and greater) → High voltage up to 6000 V possible → Vertical and horizontal installation possible → Ceram CT coating possible to increase efficiency (with hydraulics 8" and greater) → Pressure shroud installation possible 	<ul style="list-style-type: none"> → Deep water lowering → Self-cooling design → Easy installation on the ascending pipe → Wear-resistant design due to different material versions → Compact design → Rewindable motors → Impeller trimming allows custom adaptation to duty point → Ceram CT coating possible to increase efficiency
Information	Online catalogue: productfinder.wilo.com Building Services catalogue: Water supply Water Management catalogue: Water supply – Raw water intake	Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake	Online catalogue: productfinder.wilo.com Water Management catalogue: Water supply – Raw water intake



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
Design	Submersible drainage pumps	Vertical drainage pumps	Submersible drainage pumps
Application	For industrial applications, e.g. for condensate, hot water and aggressive fluids	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 m³/h	14 m³/h	53 m³/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 1 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	<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 → Capacitor box (VC 32, 1~) 	<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"> → High temperature resistance → Also suitable for aggressive media 	<ul style="list-style-type: none"> → Long service life → Easy commissioning → Connection outside the fluid zone → Long standstill times possible → Integrated motor protection by thermal relay and control electrode 	<ul style="list-style-type: none"> → Inox & composite → Low weight → Detachable connection cable → Float switch for model A → Thermal motor monitoring for AC motor without switchgear
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> <p>Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)</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
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 m³/h	180 m³/h	7,950 m³/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 → Self-cooling motors with 1- or 2-chamber system → Simple installation via suspension unit
Special features	<ul style="list-style-type: none"> → Modular material system: → Normal cast iron version → Wear protection due to ceramic coating → Pump components made of Abrasite (chilled cast iron) → With Ex protection, depending on type 	<ul style="list-style-type: none"> → Stainless steel & composite → ATEX approval as standard (not for "AM" version) → Low weight → Detachable connection cable → Cooling jacket as standard → Corrosion-resistant (e.g. swimming-pool water, salt water, etc.) 	<ul style="list-style-type: none"> → Operation in stationary wet well and dry well installation → Easy installation via suspension unit → Special materials and coatings against abrasion and corrosion → Longitudinally watertight cable inlet (depending on motor) → Adjustment of duty point by trimming the impeller
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	Submersible mixer
Series	Wilo-EMU FA...RF	Wilo-Sevio MIX BG 75-2 Wilo-Sevio MIX BG 80-1 Wilo-Sevio MIX BG 120-1	Wilo-Sevio MIX DM 50-2
Field of application	Special applications, wastewater collection and transport, industrial process	Special applications, industrial process	Special applications, industrial process
Design	Submersible sewage pumps made of cast stainless steel	Submersible mixer with single-stage planetary gear	Submersible mixer with single-stage planetary gear
Application	Pumping sewage with solid content in water treatment systems and industrial applications	Energetically optimised mixing and circulation of activated sludge	Pumping of drilling mud on on-shore and off-shore installations
Volume flow Q max.	70 m ³ /h	Thrust: 1145 – 6620 N	Thrust: 1010 N
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: 60 °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: 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"> → Heavy-duty version made of cast stainless steel (1.4581) → Simple installation via suspension unit or pump base 	<ul style="list-style-type: none"> → Flexible installation via lowering device → Single-stage planetary gear 	<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"> → Operation in stationary and portable wet well installation → Version made completely of cast stainless steel 1.4581 → Easy installation via suspension unit or pump base → Longitudinally watertight cable inlet → Adjustment of duty point by trimming the impeller 	<ul style="list-style-type: none"> → 1-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel, PUR or PUR/GRP version → ATEX approval for 60 °C fluids → Gear shaft 1.4462 → Mechanical seal with internal spring loading 	<ul style="list-style-type: none"> → 1-stage planetary gear for adjusting the propeller speed → Self-cleaning propeller → Easy-to-install propeller attachment → Propeller in steel version → ATEX approval for 90 °C fluids → Gear shaft 1.4462 → Heat-resistant housing coating → Special cable for high temperatures
Information	Online catalogue: productfinder.wilo.com Water Management catalogue: Drainage and sewage – Wastewater transport and dewatering (pumps available ex stock)	Documentation on request	Documentation on request



Product range	Treatment process
Series	Wilo-Sevio ACT SD 101
Field of application	Wastewater treatment, industrial process
Design	Scum skimmer
Application	Gentle mixing process of biomass particles in the pumped fluid
Volume flow Q max.	3300 – 4000 m³/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 → Max. immersion depth: 20 m
Equipment/function	<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"> → Height-adjustable for optimum suction of the biomass particles → Outlet angle can be customised → Easy to install → ATEX and FM approval
Information	Documentation on request

**“Perfectly
coordinating
performance
and efficiency,**

**that’s what I call
Pioneering for You.”**

Dr. Franka Schneider, Research Engineer Fluid Mechanics
WILO SE





2135652/5T/1303/INT/FRO

WILO SE
Nortkirchenstraße 100
44263 Dortmund
T 0231 4102-7516
F 0231 4102-7666
wilo@wilo.com
www.wilo.com

Pioneering for You

More contact details at www.wilo.com