

Pioneering for You

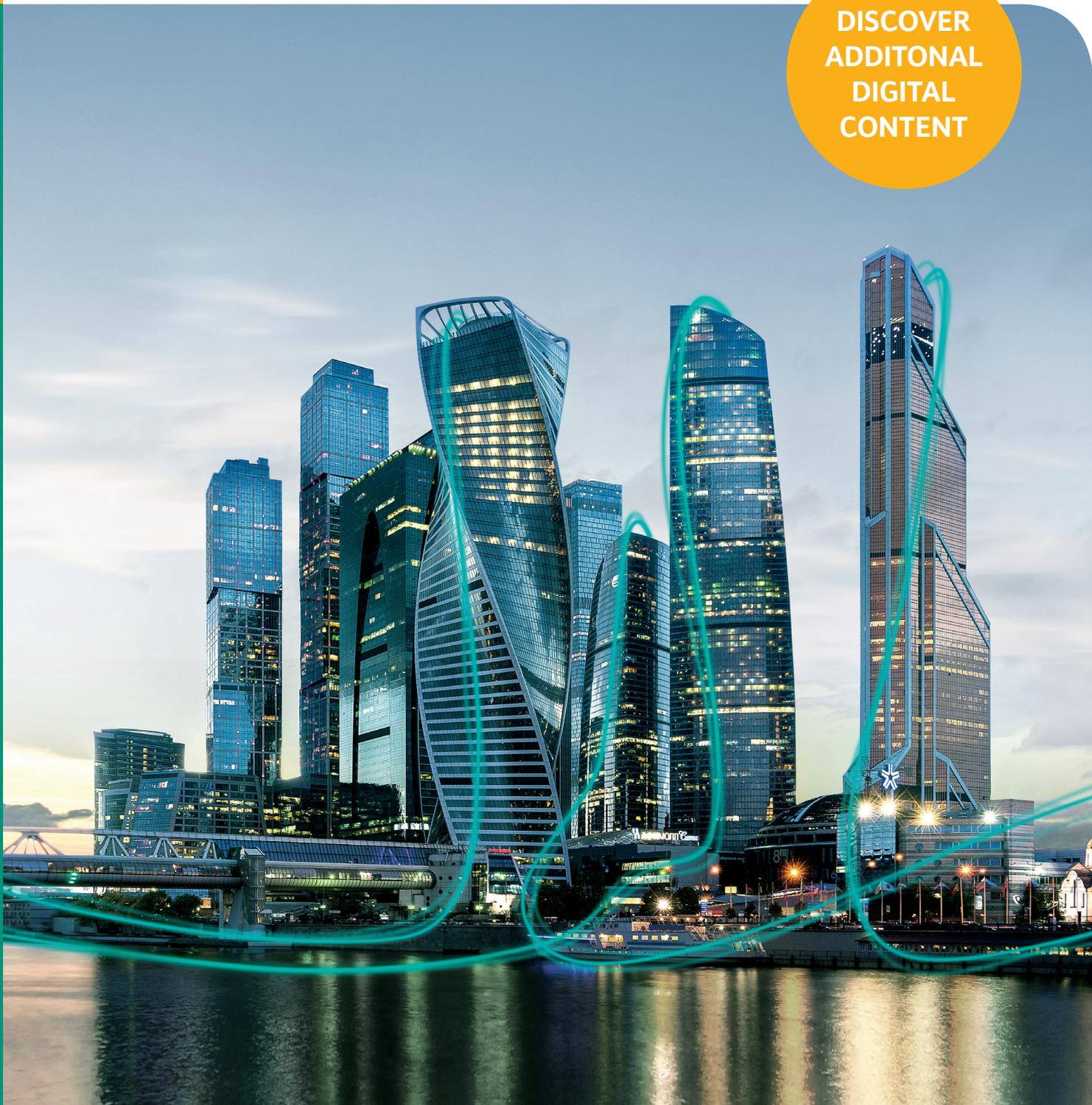
wilo

Efficient solutions – 50 Hz

General Overview 2019

Our product and system solutions for Heating, Air conditioning, Cooling, Water supply as well as Drainage and sewage.

DISCOVER
ADDITIONAL
DIGITAL
CONTENT



WILO BRINGS THE FUTURE.

Wilo develops networked systems and solutions that build on sustainable concepts and smart technology. With its pioneering spirit, Wilo creates products and service solutions that provide today's market with answers to the complex tasks of tomorrow's building services. As an innovation leader, Wilo sets the bar and offers customers around the globe tailored products with high system efficiency and maximum energy conservation.



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More is more: in-depth digital content

Our extra for you: wherever you see this logo you can call up additional information we prepared for you. Simply scan the area with your smartphone and find out more about selected topics.

1



Download the Wilo-Assistant App for free in the Google Play Store for Android or in the App Store for iOS.

2



Tap the AR logo to start the Wilo-Assistant App and scan the content with your smartphone.



Pioneering for You.

Our promise to you.

WILO SE is one of the world's leading premium suppliers of pumps and pump systems for building services, water management, and the industrial sector. With over 7800 employees in more than 60 subsidiaries around the world, we develop smart solutions that connect people, products and services to effectively support you in your daily work. "Pioneering for You" is our lasting commitment to clear customer focus, unrelenting pursuit of quality and our special passion for technology.

As the digital pioneer of the pumps industry, we understand the challenges that will shape the future. As an innovation and technology leader, we provide holistic solutions to address them. We know that these issues play a major role in your daily work and, in turn, ours too.

Sustainably better.

One of the most pressing tasks in times of limited natural resources is the responsible consumption of water, a resource that is becoming increasingly scarce. Efficiency, connectivity and safety will become increasingly important in the future. We aspire to offer you sustainable, user-friendly and high-performance solutions for building services and water management that are ahead of their time. We work closely with our customers to create innovative products and systems that perfectly match their requirements and are rounded off with convenient services. The result is integrated solutions you can rely on at all times.





THE FUTURE IS CONNECTED.

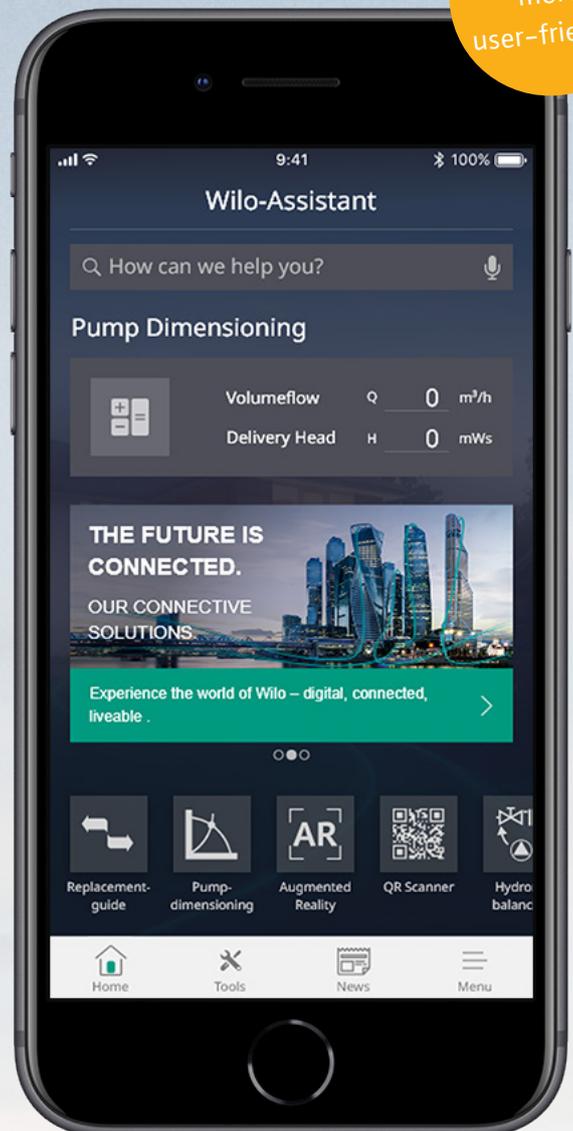
“The future is connected” – Along with network-compatible products, such as the Wilo-Stratos MAXO and modules which can be retrofitted to other Wilo pumps, the Wilo-Assistant App is Wilo’s connectivity centrepiece. Wilo pumps are delivered equipped with a suitable digital interface, or can alternatively be upgraded using an IF module. The Wilo-Assistant App acts as a central starting point and is now optimised to provide customer guidance. The app makes the whole digital world of Wilo products and services available to customers. Tutorials make it easy to get started, and the comprehensive search function helps users find information on any topic across the whole app. The Smart Connect function can be used both to install products and to call up data on their operating status. In addition to this, there are functions such as the basic device configuration and direct communication with the product – to document its maintenance, fault and settings history, for example. Furthermore, the Solar Connect func-

tion in the app enables the Wilo-Actun OPTI-MS to be controlled using remote access. The customer also has access to Wilo’s expanded range of services through Care Connect. The data for these processes is only available in the Wilo Cloud and cannot be accessed externally. For the highest levels of data security.

now even
more
user-friendly



The new Wilo-Assistant.
Available for free download now.



The new Wilo-Assistant

The app for everyone.

The redesigned Wilo-Assistant app makes the entire world of high-efficiency pump technology available on smartphones and tablets for HVAC installers, technical building equipment consultants and pump operators.

The new design and the intuitive user experience provide even better support for your day-to-day work. New functions and connective solutions add to the range of features already offered by the previous Wilo-Assistant. That way, users can find what they need even faster, and get support with

- Consultation and selection
- Customer consultation
- Installation and commissioning
- Remote control and maintenance



Wilo-Smart Connect



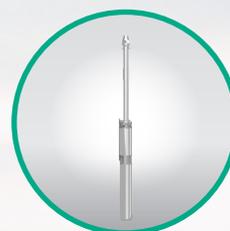
Wilo-Care Connect



Wilo-Smart Balance



Sync-Function Assistant



Wilo-Solar Connect



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DISCOVER WILO SOLUTIONS.

WILO offers a wide variety of intelligent pumps and systems to make our users' everyday lives simply more pleasant. Our energy-efficient solutions are suitable for residential, public and commercial properties. Wilo products are used in heating, air conditioning, cooling and water supply applications as well as for drainage and sewage..



HEATING, AIR CONDITIONING, COOLING

Wilo delivers individual solutions and highly efficient technology for applications in heating, air conditioning, cooling and domestic hot water.

WATER SUPPLY

Innovative products and systems from Wilo support applications in rainwater utilisation, water supply and pressure boosting, firefighting and raw water intake.

DRAINAGE AND SEWAGE

Wilo pumps and lifting units ensure safe and reliable operation in wastewater and sewage disposal.

PLAYMAKER IN THE ARENA.

Just as successful teams impress on the field, Wilo products impress thanks to their perfect synergy and high performance. Stadium operators around the world rely on Wilo for dependable water supply and disposal, and as a service partner that guarantees long-term energy-efficient and connected system solutions.

THE FUTURE IS CONNECTED.

www.wilo.co.uk



SMART PUMPS FOR DORTMUND'S FOOTBALL TEMPLE.

“An atmosphere that only a true football arena can achieve”. This is how the SIGNAL IDUNA PARK was described on 2 April 1974 on its christening with a friendly match against FC Schalke 04. Since the third expansion stage was completed, the Dortmund stadium is among the largest stadiums in Europe. For its smooth operation, the sports venue in the Ruhr area relies on the smart pump technology provided by the Wilo-Stratos MAXO.

At 62 metres high, the eight yellow floodlight towers on the SIGNAL IDUNA PARK are a distinctive feature of the Dortmund skyline. With space for 81,365 fans, Dortmund's stadium is the biggest in Germany – the legendary south stand, known as the “Yellow Wall”, is Europe's largest standing-only terrace. If you had told the people of

Dortmund fans over fifty years ago about a venue on this scale with a glass facade and undersoil heating you probably would have caused nothing but a disbelieving head shaking. Today, the modern stadium on Strobelpalace has long since become a reality. Borussia Dortmund and the venue also recognise their environmental responsibility: “In times of increasingly scarce resources and increasing environmental pollution, it is of course essential for us to take up and deal with ecological consequences as well”, states Carsten Cramer, BVB-CEO. “We consider responsible energy use and the associated reduction of harmful emissions to be our fundamental and essential economic goals. This includes increasing energy efficiency.” The challenge: reliability and performance cannot be allowed to suffer under the efficiency guidelines. In terms of water supply



and disposal in general, football stadiums have a very heterogeneous performance profile. During the game water use drops significantly, however, it increases dramatically at half-time, not least because of the heavy use of sanitary facilities at this point. For many years the home of Borussia Dortmund has counted on the energy efficient, reliable and high-performance products of Dortmund technology company Wilo. From the water supply for the VIP areas, to the changing room heating and the underfloor heating system: Wilo product solutions create a green environment. Since 2019, new Wilo-Stratos MAXO models have been providing the supply for the south stand.

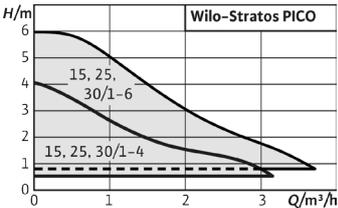
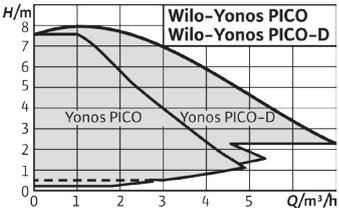
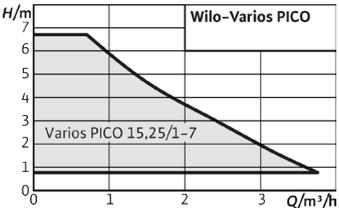
THE “LA SCALA OF GERMAN FOOTBALL”

The history of the stadium begins in the mid 1960s when the decision was made to build a second stadium alongside the outdated “Rote Erde” arena in time for the 1974 football World Cup. Just in time for the 76th Ruhr derby in 1974, everything was ready: the stadium, then known as the Westfalenstadion, opened its doors to 54,000 standing spectators for the friendly match featuring home team Borussia Dortmund against FC Schalke 04. Until the start of the 1990s the Dortmund venue remained largely in its original condition. A total of three expansion stages have turned the SIGNAL IDUNA PARK into the “La Scala of German football” – through the proximity to the pitch, the acoustics and the unique enthusiasm of the black and yellow football fans. Even the home of football acknowledges its character: the well-known English newspaper The Times named the SIGNAL IDUNA PARK as the world’s best stadium thanks to its atmosphere and facilities.

SMART TECHNOLOGY – COMPREHENSIVE COMMUNICATION

The new Wilo-Stratos MAXO for HVAC and drinking water applications in large buildings sets new standards in energy efficiency – extensive studies and customer interviews enabled Wilo to design a pump which is completely tailored to the customer’s needs, even from the earliest development stage. “Our Stratos MAXO is the first smart-pump in the world. Thanks to fully optimised and innovative energy-saving functions like Multi-Flow Adaptation and No-Flow Stop, in addition to a very good EEI of ≤ 0.19 to ≤ 0.17 depending on the model, it also sets new standards for system efficiency in the market”, says Michael Dieckmann, product manager at Wilo. With its high connectivity, the Wilo-Stratos MAXO can be more flexibly integrated into a wide variety of applications. From integration in building automation to control via app, Wilo uses intelligent and smart technologies to ensure a comprehensive communication capability – naturally, this also applies to the Wilo-Stratos MAXO. With the help of the most recent version of the Wilo-Assistant app, Wilo delivers the entire world of high-efficiency pump technology directly to smartphones and tablets. The new design and the intuitive user guidance are even more useful for tradespeople, consultants and operators in their daily work. New functions and connective solutions add to the range of features already offered by the previous Wilo-Assistant. Sites and central operating statuses can be called up and monitored in real time. But the app, with its remote control and remote maintenance functions, also provides advance support, e.g. during planning and pump selection, during installation and commissioning and during operation.



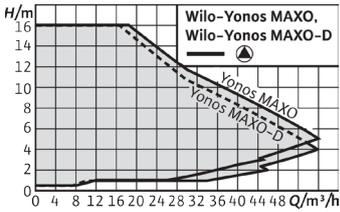
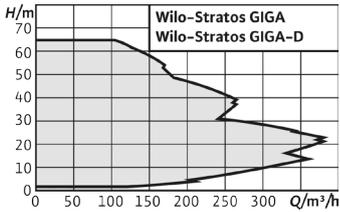
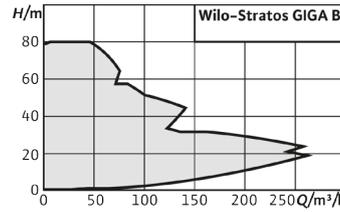
	Glandless premium high-efficiency pumps	Glandless standard high-efficiency pumps	Glandless standard high-efficiency pumps
		 Series modification	
Series	Wilo-Stratos PICO	Wilo-Yonos PICO Wilo-Yonos PICO-D	Wilo-Varios PICO
Field of application	Heating / Air conditioning	Heating / Air conditioning	Heating / Air conditioning
Duty chart			
Construction	Glandless circulator with screwed connection, EC motor and automatic power adjustment	Glandless circulator with screwed connection, EC motor and automatic power adjustment	Glandless circulator with screwed connection, EC motor and automatic power adjustment
Application	Hot-water heating systems of all kinds, air-conditioning applications, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning applications, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning applications, industrial circulation systems
Volume flow Q_{max}	4 m ³ /h	4.5 m ³ /h	3.5 m ³ /h
Delivery head H_{max}	6 m	8 m	7 m
Special features	<ul style="list-style-type: none"> → Maximum energy efficiency thanks to the combination of the EC motor, Dynamic Adapt and precise settings → High reliability through self-protecting automatic routines → Intuitive setting by activating functions and modes shown on LC display 	<ul style="list-style-type: none"> → Maximum set-up comfort with new smart settings, self-explanatory interface and new functions → Optimised energy efficiency thanks to EC motor technology, precise settings by 0.1m → Quick installation/replacement thanks to the improved compact design → Easier maintenance due to automatically and manually activated restart or air venting function 	<ul style="list-style-type: none"> → A highly compatible replacement solution for all applications thanks to compact dimensions, new control modes e.g. iPWM and the new Sync function → Highest comfort in handling with one push button for control mode and one for preset curves and the LED display → Easy installation through adaptable connections and maintenance functions like air venting
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 → Screwed connection Rp ½, Rp 1, 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 → Screwed connection Rp ½, Rp 1, 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 → Screwed connection Rp ½, Rp 1 → Max. operating pressure 10 bar
Equipment/function	<ul style="list-style-type: none"> → Control mode: Δp-c and Δp-v (Dynamic Adapt) → Automatic setback operation; venting routine; restart and dry running detection → Display of the current power consumption or flow and cumulative kWh → Reset function for the electricity meter or to factory settings → Hold function (Key lock) → Wilo-Connector → Options: stainless steel pump housing 	<ul style="list-style-type: none"> → Control mode: Δp-c, Δp-v and constant speed (3 curves) → Setting the operating mode by application, delivery head or constant speed → Automatic deblocking function → Manual restart and venting function → LED display for setting the setpoint and displaying actual consumption → Wilo-Connector → Double pump for individual (Δp-c, Δp-v, 3 speeds) or parallel operation (Δp-c, 3 speeds) 	<ul style="list-style-type: none"> → Control mode: Δp-c, Δp-v and constant speed → External control (PWM and iPWM) → Sync function (manual manual programming mode) → Air venting function → Manual restart → LED display and 2 push buttons for settings and functions activation → Dual electrical connection (Molex and Wilo-Connector) → Front access to motor screws

Glandless standard high-efficiency pumps

Glandless premium smart pumps

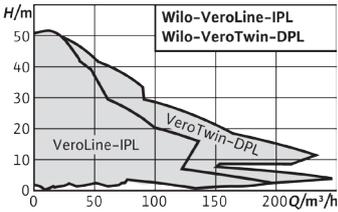
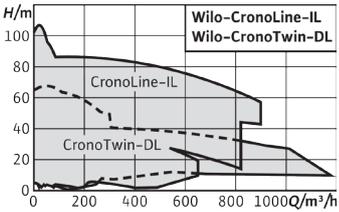
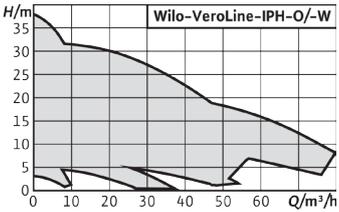
Glandless premium high-efficiency pumps


Series	Wilo-Yonos ECO...-BMS	Wilo-Stratos MAXO Wilo-Stratos MAXO-D	Wilo-Stratos Wilo-Stratos-D
Field of application	Heating / Air conditioning	Heating / Air conditioning	Heating / Air conditioning
Duty chart			
Construction	Glandless circulation pump with screwed connection, EC motor and automatic power adjustment	Smart glandless circulator with screwed connection or flange connection, EC motor with integrated power adjustment	Glandless circulator with screwed connection or flange connection, EC motor and automatic power adjustment
Application	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems
Volume flow Q_{max}	3 m ³ /h	110 m ³ /h	109 m ³ /h
Delivery head H_{max}	5 m	16 m	17 m
Special features	<ul style="list-style-type: none"> → Potential-free collective fault signal (SSM) for connection to external monitoring unit (e.g. building automation) and control input 0-10 V → Control cable (4-core, 1.5 m) for connecting SSM and 0-10 V → Wilo-Connector → Thermal insulation as standard → Pump housing with cathaphoretic coating protects against corrosion due to condensation formation 	<ul style="list-style-type: none"> → Intuitive operation by guided application settings with the Setup Guide → Energy-saving functions such as No-Flow Stop → Innovative controlling functions such as Dynamic Adapt plus and Multi-Flow Adaption → Direct pump networking for multiple pump control via Wilo Net → Installation comfort by the optimised Wilo-Connector 	<ul style="list-style-type: none"> → Energy savings through greater system efficiency with the Q-Limit function → Improved Energy Efficiency Index (EEI) ≤ 0.20 for all single pumps. → Space-saving installation due to compact design and location-dependent LC display → Retrofittable interface modules for communication (e.g. Modbus, BACnet, CAN, LON and PLR)
Technical data	<ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection: 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 → Screwed connection Rp 1, Rp 1¼ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection: 1~230 V, 50 Hz → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar (special version: 16 bar) 	<ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps) → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 (16) bar
Equipment/function	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v and manual control mode (n = constant) → Control input "Analog In 0 - 10 V" (remote speed control) → Collective fault signal (potential-free NC contact) → Control cable (4-core, 1.5 m) for connecting SSM and 0-10 V → Wilo-Connector → Deblocking function 	<ul style="list-style-type: none"> → Control mode: Dynamic Adapt plus, Δp-c, Δp-v, n-const, T-const, ΔT-const and Q-const → Multi-Flow Adaptation → Remote control via Bluetooth interface → Selection of application range with Setup Guide → Heat and cold metering → Dual pump management → Retrofittable interface modules for communication 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, Δp-T → Volume flow limitation with Q-Limit function (via IR-Stick) → Automatic setback operation → Dual pump management → Graphical pump display → Remote control via infrared interface (IR-Stick/IR-Monitor) → Retrofittable interface modules for communication → Combination flanges PN 6/PN 10 (DN 32 to DN 65)

	Glandless standard high-efficiency pumps	Glanded high-efficiency pumps in in-line design	Glanded high-efficiency pumps in monobloc design
		 IE5 Series extension	 IE5 Series modification
Series	Wilo-Yonos MAXO Wilo-Yonos MAXO-D	Wilo-Stratos GIGA Wilo-Stratos GIGA-D	Wilo-Stratos GIGA B
Field of application	Heating / Air conditioning	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process
Duty chart			
Construction	Glandless circulator with screwed connection or flange connection, EC motor and automatic power adjustment	High-efficiency in-line pump (as single or double pump) with EC motor, electronically controlled, in glanded design with flange connection and mechanical seal	High-efficiency monobloc pump with EC motor and electronic power adjustment in glanded pump design, with flange connection and mechanical seal
Application	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems
Volume flow Q_{max}	55 m ³ /h	380 m ³ /h	270 m ³ /h
Delivery head H_{max}	16 m	65 m	80 m
Special features	<ul style="list-style-type: none"> → LED display for indication of set delivery head and fault codes → Quick setting when replacing an uncontrolled standard pump with pre-set speed stages, e.g. TOP-S → Electrical connection with Wilo plug → Collective fault signal ensures system availability → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation 	<ul style="list-style-type: none"> → Innovative high-efficiency pump for maximum overall efficiency → High-efficiency EC motor with efficiency class IE5 acc. IEC 60034-30-2 → Optional IF module interfaces for bus communication with building automation 	<ul style="list-style-type: none"> → Innovative high-efficiency pump for maximum total-system efficiency, with principal dimensions in accordance with EN 733 → High-efficiency EC motor (efficiency class IE5 acc. IEC 60034-30-2) → Optional IF module interfaces for bus communication with building automation
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≤ 0.23 for double pumps) → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V -3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI): up to 6,0 kW MEI ≥ 0,7, from 11 kW MEI ≥ 0,4 → Nominal diameter DN 40 up to DN 100 → Max. operating pressure 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~380 V -3~480 V (±10 %), 50/60 Hz → Minimum efficiency index (MEI): up to 6,0 kW MEI ≥ 0,7, from 11 kW MEI ≥ 0,4 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 16 bar
Equipment/function	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, 3 speed stages → LED display for setting the required delivery head → Quick electrical connection with Wilo plug → Motor protection, fault signal light and contact for collective fault signal → Combination flanges PN 6/PN 10 (for DN 40 to DN 65) 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (double pump operation), analogue input 0-10 V/0-20 mA for constant speed (DDC) → Remote control via infrared interface (IR-Stick/IR-Monitor), plug-in position for IF modules for connection to building automation 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, External pump cycling, analogue input 0-10 V/0-20 mA for constant speed (DDC) → Remote control via infrared interface (IR-Stick/IR-Monitor), plug-in position for IF modules for connection to building automation

Glanded energy-saving pumps in in-line design
Glanded energy-saving pumps in in-line design
Glanded energy-saving pumps in monobloc design


Series	Wilo-VeroLine-IP-E Wilo-VeroTwin-DP-E	Wilo-CronoLine-IL-E Wilo-CronoTwin-DL-E	Wilo-CronoBloc-BL-E
Field of application	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process
Duty chart			
Construction	Energy-saving in-line pump/in-line double pump in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal	Energy-saving in-line pump/in-line double pump in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal	Energy-saving pump in monobloc design in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal
Application	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems
Volume flow Q_{max}	170 m ³ /h	800 m ³ /h	380 m ³ /h
Delivery head H_{max}	30 m	65 m	84 m
Special features	<ul style="list-style-type: none"> → Optional interfaces for bus communication using plug-in IF modules → Simple operation with Green Button Technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → Motors with efficiency class IE4 	<ul style="list-style-type: none"> → Optional interfaces for bus communication using plug-in IF modules → Simple operation with Green Button Technology and display → Integrated dual pump management → Integrated full motor protection with trip electronics → Motors with efficiency class IE4 	<ul style="list-style-type: none"> → Optional interfaces for bus communication using plug-in IF modules → Simple operation with Green Button Technology and display → Integrated full motor protection with trip electronics → Meets user requirements due to performance and main dimensions in accordance with EN 733 → Motors with efficiency class IE4
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz 3~400 V ±10 %, 50/60 Hz 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter DN 32 to DN 80 → Max. operating pressure 10 (16) bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz, 3~400 V ±10 %, 50/60 Hz, 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter DN 40 to DN 80 → Max. operating pressure 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection: 3~440 V ±10 %, 50/60 Hz, 3~400 V ±10 %, 50/60 Hz, 3~380 V -5 %/+10 %, 50/60 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter DN 32 to DN 125 → Max. operating pressure 16 bar (120 °C)
Equipment/function	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (double pump operation), analogue input 0-10 V/0-20 mA for constant speed (DDC) → Remote control via infrared interface (IR-Stick/IR-Monitor), plug-in position for IF modules for connection to building automation 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, external pump cycling (double pump operation), analogue input 0-10 V/0-20 mA for constant speed (DDC) → Remote control via infrared interface (IR-Stick/IR-Monitor), plug-in position for IF modules for connection to building automation 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, PID control, n=constant → Manual functions: E.g. differential pressure setpoint setting, manual control mode, error acknowledgement → External control functions: E.g. Overriding Off, analogue input 0-10 V/0-20 mA for constant speed (DDC) → Remote control via infrared interface (IR-Stick/IR-Monitor), plug-in position for IF modules for connection to building automation

	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 / Industrial Process	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process
Duty chart			
Construction	Glanded pump/double pump in in-line design with screwed connection or flange connection	Glanded pump/double pump in in-line design with flange connection	Glanded pump in in-line design with flange connection
Application	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	IPH-W: For hot water in closed industrial circulation systems, district heating, closed heating systems IPH-O: For heat transfer oil in closed industrial circulation systems
Volume flow Q_{max}	245 m ³ /h	1,170 m ³ /h	80 m ³ /h
Delivery head H_{max}	52 m	108 m	38 m
Special features	<ul style="list-style-type: none"> → High standard of corrosion protection → Standard condensate drainage holes in motor housings and lanterns → Series design: motor with one-piece shaft → Version N: Standard motor B5 or V1 with stainless steel plug shaft → Bidirectional, force-flushed mechanical seal → DPL: Main-/standby operation or peak-load operation (via additional external device) 	<ul style="list-style-type: none"> → Can be used flexibly in air-conditioning and cooling systems, with application benefits due to direct draining of condensate → High standard of corrosion protection → Worldwide availability of standard motors (according to Wilo specifications) and standard mechanical seals → Main/standby mode or peak-load operation (by means of external auxiliary device) 	<ul style="list-style-type: none"> → Self-cooled mechanical seal, independent of direction of rotation → Great variety of applications due to a wide fluid temperature range without additional wearing parts
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter Rp 1 to DN 100 → Max. operating pressure 10 bar (special version: 16 bar) 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter DN 32 to DN 250 → Max. operating pressure 16 bar (25 bar on request) 	<ul style="list-style-type: none"> → Fluid temperature IPH-W: -10 °C to +210 °C (at max. 23 bar) → Fluid temperature IPH-O: -10 °C to +350 °C (at max. 9 bar) → Mains connection 3~400 V, 50 Hz → Nominal diameter DN 20 to DN 80
Equipment/function	<ul style="list-style-type: none"> → Single-stage, low-pressure centrifugal pump in in-line design with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Motor with one-piece shaft → DPL with switchover valve → Motors with efficiency class IE3 for motors ≥ 0.75 kW 	<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 → Motors with efficiency class IE3 for motors ≥ 0.75 kW 	<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

Glanded monobloc pumps

Glanded monobloc pumps

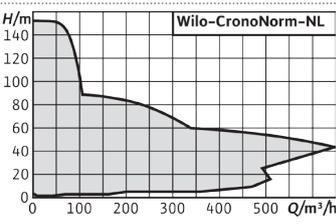
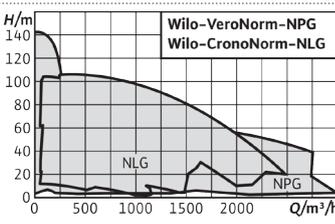
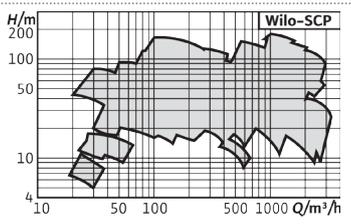
Standard glanded pumps



Series extension



Series	Wilo-CronoBloc-BL	Wilo-BAC	Wilo-Atmos GIGA-N
Field of application	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process	Heating / Air conditioning / Industrial Process / Clean water treatment / Distribution and boosting / Irrigation
Duty chart			
Construction	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, mounted on a baseplate.
Application	Pumping of heating water, cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems	For pumping of cooling water, cold water, water-glycol mixtures and other fluids without abrasive substances	Pumping of heating water (in accordance with VDI 2035), cold water, water-glycol mixtures in heating, cold water and cooling systems.
Volume flow Q_{max}	767 m ³ /h	87 m ³ /h	1000 m ³ /h
Delivery head H_{max}	150 m	26 m	150 m
Special features	<ul style="list-style-type: none"> → High corrosion protection through cathaphoresis coating of the cast iron components → Standard condensate drainage holes in the motor housings → High worldwide availability of standard motors (according to Wilo specifications) and mechanical seals → Performance and main dimensions in accordance with EN 733 	<ul style="list-style-type: none"> → Pump housing in plastic design → Version with Victaulic or threaded connection (BAC 70/135... only with Victaulic connection) 	<ul style="list-style-type: none"> → Energy-saving thanks to increased overall efficiency through improved hydraulics and the use of IE3 motors → Cataphoretic coating of all cast components for high corrosion resistance and long service life → Universally usable thanks to standardised dimensions, a range of motor options and impellers made of different materials
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → Nominal diameter DN 32 to DN 150 → Max. operating pressure 16 bar (25 bar on request) 	<ul style="list-style-type: none"> → Fluid temperature -15 °C to +60 °C → Mains connection 3~400 V, 50 Hz → Minimum efficiency index (MEI) ≥ 0.4 → 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"> → Permissible temperature range of -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Protection class IP55 → Nominal diameter DN 32 to DN 150 → Max. operating pressure 16 bar
Equipment/function	<ul style="list-style-type: none"> → Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with → Mechanical seal → Flange connection with pressure measuring connection R ½ → Lantern → Coupling → Motors with efficiency class IE3 for motors ≥ 0.75 kW 	<ul style="list-style-type: none"> → Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port → Motors with efficiency class IE3 	<ul style="list-style-type: none"> → Single-stage low-pressure centrifugal pump in monobloc design with coupling, coupling guard, motor and baseplate

	Standard glanded pumps	Standard glanded pumps	Axially split case pumps
	 Discontinued line		
Series	Wilco-CronoNorm-NL	Wilco-CronoNorm-NLG Wilco-VeroNorm-NPG	Wilco-SCP
Field of application	Heating / Air conditioning / Clean water treatment	Heating / Air conditioning / Clean water treatment	Distribution and boosting / Clean water treatment / Irrigation
Duty chart			
Construction	Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate	Single-stage low-pressure centrifugal pump with axial suction, according to ISO 5199, mounted on a baseplate	Low-pressure centrifugal pump with axially split housing mounted on a baseplate
Application	Pumping of heating water, cold water, water-glycol mixtures in municipal water supply, general industry, power stations etc.	Pumping of heating water, cold water, water-glycol mixtures in municipal water supply, general industry, power stations etc.	Pumping of heating water (acc. VDI 2035), cold water, process water, water-glycol mixtures in heating, cold water and cooling systems.
Volume flow Q_{max}	650 m ³ /h	2,800 m ³ /h	3,400 m ³ /h
Delivery head H_{max}	150 m	140 m	245 m
Special features	<ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency levels → Bidirectional, force-flushed mechanical seal → Low NPSH values, best cavitation properties → Shaft coupling with or without spacer coupling 	<p>NLG:</p> <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency → Mechanical seal independent of the direction of rotation → Interchangeable casing wear ring → Permanently lubricated, generously dimensioned roller bearings <p>NPG:</p> <ul style="list-style-type: none"> → Suitable for temperatures up to 140 °C → Back pull-out version 	<ul style="list-style-type: none"> → Higher volume flows up to 17,000 m³/h on request → Special motors and other materials on request
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameter: DN 50 to DN 500 (suction side), DN 32 to DN 500 (pressure side) → Operating pressure: depending on type and application – up to 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C (depending on type) → Mains connection 3~400 V, 50 Hz → Nominal diameters: DN 150 to DN 500 (depending on type) → Operating pressure: depending on type and application – up to 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameters – Suction side: DN 65 to DN 500 → Pressure side: DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type
Equipment/function	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings in process design → Shaft sealing: mechanical seals in accordance with EN 12756 or stuffing box packing → Spiral housing with cast pump support feet → Shaft coupling with spacer coupling → Motors ≥ 0.75 kW: IE3 	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings (NLG only) in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or stuffing box packing → Spiral housing with cast pump bases → Greased grooved ball bearings for bearing of pump shaft → Motors with efficiency class IE3 	<ul style="list-style-type: none"> → 1- or 2-stage, low-pressure centrifugal pump in monobloc design → Deliverable as complete unit or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors → Materials: → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13

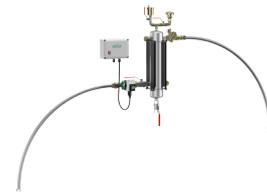
Glanded energy-saving pumps Multi-pump systems



Condensate lifting units

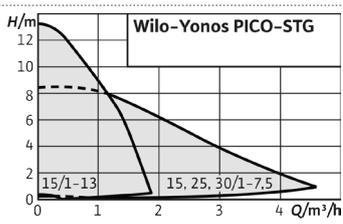
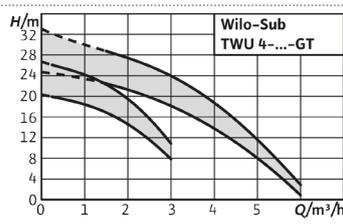


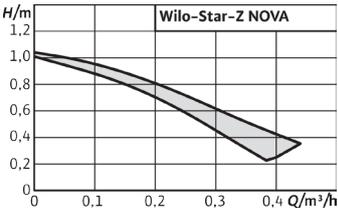
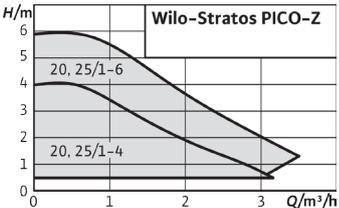
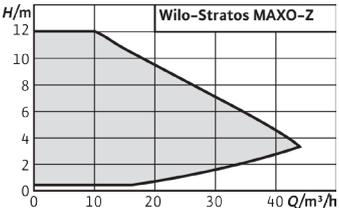
Particle separator systems for closed HVAC loops



Series	Wilo-SiFlux	Wilo-Plavis ...-C	Wilo-SiClean
Field of application	Heating / Air conditioning	Heating / Air conditioning	Heating / Air conditioning
Duty chart			
Construction	Fully automatic, ready for connection multi-pump system for high volume flows in heating, cold water and cooling water systems. 3 to 4 electronically controlled in-line pumps switched in parallel	Automatic condensate lifting unit	Compact particle separator kit, consisting of mechanical and hydraulic components. Manual emptying of the system
Application	For pumping heating water, water-glycol mixtures and cooling and cold water without abrasive substances in heating, cold water and cooling water systems	For pumping condensate out of heat generators with condensing boiler technology, Air-conditioning and cooling systems	Removes particles from heating systems using natural physical phenomena in commercial properties and for district heating.
Volume flow Q_{max}	490 m ³ /h	330 l/h	4 m ³ /h
Delivery head H_{max}	55 m	4 m	–
Special features	<ul style="list-style-type: none"> → Number of pumps: 2+1 or 3+1 (2 or 3 pumps in operation, 1 standby pump each) → Quick and easy installation → Energy-saving: Operation in partial load area according to current needs → Reliable system thanks to optimally matched components → Compact design, good accessibility to all components 	<ul style="list-style-type: none"> → Reliable level measurement via electrode level switching → Easy installation thanks to Plug & Pump with adjustable inlet → Quick and easy maintenance thanks to removable service cap and integrated non-return ball valve → Energy savings due to low electricity consumption (≤ 20 W) → Compact, modern construction and quiet operation (≤ 40 dBA) 	<ul style="list-style-type: none"> → Removal of magnetic and non-magnetic particles from the medium, venting of micro bubbles → High cleaning efficiency due to physical effects (gravity, filtration...) → Easy to use due to ease of installation, maintenance, and simplified settings → Corrosion-resistant thanks to stainless steel particle separator
Technical data	<ul style="list-style-type: none"> → Veroline-IP-E or CronoLine-IL-E → 3~230/400 V, 50 Hz ± 10 % → Fluid temperature: 0 °C to +120 °C → Pipe connections: DN 125 to DN 300 → Max. permissible operating pressure: 10 bar (IP-E), 16 bar (IL-E) 	<ul style="list-style-type: none"> → Mains connection 1~ 100-240 V, 50/60 Hz → Max. fluid temperature 60 °C → Protection class IPX4 → Inlet connections 18/40 mm → Tank volume 0.7 l to 1.6 l 	<ul style="list-style-type: none"> → Fluid temperature: 0 °C to +95 °C → Mains connection: 1~230 V, 50 Hz
Equipment/function	<ul style="list-style-type: none"> → Automatic pump control via Wilo-SCe → Parts that come in contact with the fluid are corrosion-resistant → Base frame made of galvanised steel, with height-adjustable vibration absorbers for insulation against structure-borne noise → Distributor steel, with corrosion-resistant coating → Shut-off valves, non-return valve, pressure gauge and premounted seals → Differential pressure sensor 	<ul style="list-style-type: none"> → Electric connecting cable with plug (1.5 m) → Detachable service cap; integrated non-return ball valve → 013-C and 015-C: Pressure hose (5 m, $\varnothing 8$); Alarm cable (1.5 m); Alarm contact (NC/NO contact); Adjustable rubber guide, $\varnothing 2$ to $\varnothing 32$; Fixation material for wall mounting → 015-C: granulate chamber including granulate for pH-neutralization 	<ul style="list-style-type: none"> → Anti-corrosive, hydraulic components → Pre-assembled fabric-reinforced connecting hoses → Pre-assembled venting unit for expulsion of micro bubbles → Movable magnetic rods for separation of iron oxide particles → Volume flow limiter → Manual purge valve for draining of collected particles → Switchbox for monitoring the circulator

	Particle separator systems for closed HVAC loops	Control devices(Comfort controller CC..., Vario controller VR..., Smart controller SC...)	External Frequency Converter
			
Series	Wilo-SiClean Comfort	Wilo-CC/CC-FC/CCe-HVAC system Wilo-SC/SC-FC/SCe-HVAC system	Wilo-EFC
Field of application	Heating / Air conditioning	Heating / Air conditioning	Heating / Air conditioning / Cooling / Water Supply / Drainage and Sewage
Duty chart			
Construction	Fully-automatic, compact particle separator consisting of mechanical and hydraulic components. The system is drained automatically.	–	Frequency converter
Application	Removes particles from heating systems using natural physical phenomena in commercial properties and for district heating	Switchgear for controlling 1 to 6 pumps	Wall-mounted frequency converter for fixed-speed pumps equipped with asynchronous or permanent magnet motors
Volume flow Q_{max}	47 m ³ /h	–	–
Delivery head H_{max}	–	–	–
Special features	<ul style="list-style-type: none"> → High efficiency via combination of physical effects → "Plug & Play" design; fully automated operation → Fully automated and adjustable disposal of collected particles in the desludging tank → Highly functional thanks to removal of all magnetic and non-magnetic particles, free air and micro bubbles in the fluid, support for the degasification process 	→ Special versions on request	<ul style="list-style-type: none"> → Flexible and safe application → Compact design with energy-saving cooling concept to reduce temperature losses → Integrated energy-efficient harmonic reduction → Additional energy-saving function in the partial load range of the pump → Versatile use in pump applications thanks to several connection options and different control modes
Technical data	<ul style="list-style-type: none"> → Fluid temperature 0 °C to +95 °C → Mains connection: 3~400 V, 50 Hz 	–	<ul style="list-style-type: none"> → Max. ambient temperature: 55°C (50°C without derating) up to 90 kW, 50°C (45°C without derating) from 110 kW → Environment protection class: IP55 up to 90 kW, IP54 from 110 kW
Equipment/function	<ul style="list-style-type: none"> → Corrosion-resistant, hydraulic components → Fabric-reinforced hoses connected to inlet and outlet of the particle separator → Pre-assembled flushing device including electronic drain valve and additional safety valve → Automatic draining of the particle collection chamber → SC switchgear 	<ul style="list-style-type: none"> → CC-HVAC: Control system for 1 to 6 pumps with fixed speed → CCe-HVAC: Control system for 1 to 6 pumps with integrated speed control or external frequency converter control → SC-HVAC: Controller for 1 to 4 pumps → SC and SC-FC for standard pumps with fixed speed → SCe for electronically controlled pumps or pumps with integrated frequency converter 	→ IF modules as an option: Profibus, Ethernet, DeviceNet, Profinet, Modbus

	Pump control	Glandless high-efficiency pumps	Submersible pumps
			
Series	1. Wilo-IR-Stick, IR-Monitor 2. Wilo-IF-Modules, Wilo-CIF-Modules	Wilo-Yonos PICO-STG	Wilo-Sub TWU 4 ...-GT
Field of application	Heating / Air conditioning	Heating	Raw water intake
Duty chart			
Construction	–	Glandless circulator with screwed connection, EC motor and automatic power adjustment	Submersible pump, multistage
Application	1. Remote control with infrared interface for electronically controlled Wilo pumps 2. Wilo-Control products for connecting pumps to building automation	Circulation in solar thermal and geothermal energy systems	Water supply from boreholes, wells and rainwater storage for geothermal applications
Volume flow Q_{max}	–	4,5 m ³ /h	6 m ³ /h
Delivery head H_{max}	–	13 m	33 m
Special features	–	<ul style="list-style-type: none"> → Green button for setting the control mode Δp-v or the fixed speed → External speed control via integrated interface PWM 1 (geothermal) and PWM 2 (solar) → Pump housing with cataphoretic coating protects against corrosion due to condensation formation → Operation and fault display via ring LED 	<ul style="list-style-type: none"> → Performance-optimised motors for geothermal applications → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Low wear due to floating impellers
Technical data	–	<ul style="list-style-type: none"> → Fluid temperature 0 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.23 → Screwed connection Rp ½, Rp 1, Rp 1¼ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Fluid temperature: 3-30 °C → Max. sand content: 50 g/m³ → Max. immersion depth: 200 m
Equipment/function	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/-D/-B, IP-E, DP-E, IL-E/DL-E, BL-E, MHIE, MVIE, Helix VE... Wilo-CIF modules → Plug-in modules for BA connection of Stratos MAXO	<ul style="list-style-type: none"> → Control modes: Δp-v, manual control mode (n = constant), external speed control with PWM 1 or PWM 2 signal → Interface for PWM 1 or PWM 2 signal → Flexible connection cable with Wilo-Connector → Automatic deblocking function → Pump housing with cataphoretic coating 	<ul style="list-style-type: none"> → Multistage submersible pump with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Three-phase motor → Hermetically sealed motors

	Glandless high-efficiency pumps	Glandless premium high-efficiency pumps	Glandless premium smart pumps
			
Series	Wilostar-Z NOVA	Wilostar-Z PICO-Z	Wilostar-Z MAXO-Z
Field of application	Domestic hot water	Domestic hot water	Domestic hot water
Duty chart			
Construction	Glandless circulator with screwed connection and blocking-current proof synchronous motor	Glandless circulator with screwed connection, EC motor and automatic power adjustment	Smart glandless circulator with screwed connection or flange connection, EC motor with integrated power adjustment
Application	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems and similar systems in industry and in building services
Volume flow Q_{max}	0.4 m ³ /h	3.5 m ³ /h	43 m ³ /h
Delivery head H_{max}	1.1 m	6 m	12 m
Special features	<ul style="list-style-type: none"> → Hygienically safe thanks to proven technology → Improved energy efficiency due to synchronous motor with power consumption of only 3–6 watts and thermal insulation shell as standard → Quick, easy installation and replacement of common pump types thanks to flexible service motor and Wilo-Connector 	<ul style="list-style-type: none"> → Manual and temperature-controlled mode for optimum operation → Identification of the thermal disinfection of the drinking water tank → Display of the current consumption in Watts and the cumulative kilowatt hours or of the current flow and the temperature → Stainless steel pump housing protects against bacteria and corrosion 	<ul style="list-style-type: none"> → Operation by guided application settings with the Setup Guide → Maximum drinking water hygiene and energy efficiency by the new control function T-const. → Optimum hygiene support thanks to thermal disinfection. → Installation comfort by the Wilo-Connector → Corrosion-resistant pump housing in stainless steel
Technical data	<ul style="list-style-type: none"> → Fluid temperature: potable water, max. +95 °C → Mains connection 1~230 V, 50 Hz → Screwed connection Rp ½ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: drinking water up to water hardness 3.57 mmol/l (20 °dH) max. +70 °C → Mains connection 1~230 V, 50 Hz → Screw connection Rp ¾, Rp 1 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: drinking water max. +80 °C → Heating water -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Nominal diameter Rp 1 to DN 65 → Max. operating pressure 10 bar
Equipment/function	<ul style="list-style-type: none"> → Wilo-Connector → Ball shut-off valve on suction side and non-return valve on pressure side (Star-Z NOVA A, C, T) → Including plug-in time switch, 1.8 m connection cable (Star-Z NOVA C) → Star-Z NOVA T incl. timer, thermostatic valve and detection of thermal disinfection, LC display with symbolic language 	<ul style="list-style-type: none"> → Control mode: Δp-c, temperature-controlled mode → Temperature control for constant return temperature in drinking water circulation systems → Thermal disinfection routine → Reset function for the electricity meter or to factory settings → "Hold" function (key lock) → Automatic deblocking function → Wilo-Connector 	<ul style="list-style-type: none"> → Control mode: Dynamic Adapt plus, Δp-c, Δp-v, n-const, T-const, ΔT-const and Q-const → Multi-Flow Adaptation → Remote control via Bluetooth interface → Selection of application range with Setup Guide → Heat metering → Disinfection detection → Air-venting function → Retrofittable interface modules for communication

Glandless high-efficiency pumps

Glandless standard high-efficiency pumps

Standard glandless pumps



Discontinued line



Series	Wilo-Stratos-Z Wilo-Stratos-ZD	Wilo-Yonos MAXO-Z	Wilo-Star-Z Wilo-Star-ZD
Field of application	Domestic hot water	Domestic hot water	Domestic hot water
Duty chart			
Construction	Glandless circulator with screwed connection or flange connection, EC motor with automatic power adjustment	Glandless circulator with screwed connection or flange connection, EC motor with automatic power adjustment	Glandless circulator with screwed connection
Application	Domestic hot water circulation systems and similar systems in industry and in building services	Domestic hot water circulation systems in industry and in building services	Domestic hot water circulation systems in industry and in building services
Volume flow Q_{max}	41 m ³ /h	39 m ³ /h	8.5 m ³ /h
Delivery head H_{max}	12 m	12 m	6.0 m
Special features	<ul style="list-style-type: none"> → Energy savings through greater system efficiency with the Q-Limit function → Space-saving installation due to compact design and location-dependent LC display → Retrofittable interface modules for communication (e.g. Modbus, BACnet, CAN, LON and PLR) → Corrosion-resistant pump housing in red brass for systems where oxygen entry is possible 	<ul style="list-style-type: none"> → Indication of set delivery head and fault codes → Quick setting when replacing an uncontrolled standard pump with pre-set speed stages, e.g. TOP-Z → Electrical connection with Wilo plug → Collective fault signal ensures system availability → Corrosion-resistant pump housing in red brass for systems where oxygen entry is possible 	<ul style="list-style-type: none"> → All plastic parts that come into contact with the fluid fulfil KTW recommendations
Technical data	<ul style="list-style-type: none"> → Fluid temperature: drinking water max. +80 °C → Heating water -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Energy Efficiency Index (EEI) ≤ 0.20 (EEI ≥ 0.23 for double pumps) → Nominal diameter Rp 1 to DN 65 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Permissible temperature range drinking water up to a water hardness of 3.57 mmol/l (20 °dH) max. +80 °C → Mains connection 1~230 V, 50 Hz → Nominal diameter Rp 1 to DN 65 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: drinking water up to water hardness 3.2 mmol/l (18 °dH) max. +65 °C → Mains connection 1~230 V, 50 Hz, → Screwed connection Rp ½ (¾), Rp 1 → Max. operating pressure 10 bar
Equipment/function	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, Δp-T → Volume flow limitation with Q-Limit function (via IR-Stick) → Pre-selectable speed for constant operation → Automatic setback operation → Graphical pump display → Remote control via infrared interface (IR-Stick/IR-Monitor) → Retrofittable interface modules for communication → Combination flanges PN 6/PN 10 (for DN 40 and DN 65) 	<ul style="list-style-type: none"> → Control modes: Δp-c, Δp-v, 3 speed stages → LED display for setting the required delivery head → Quick electrical connection with Wilo plug → Motor protection, fault signal light and contact for collective fault signal → Corrosion-resistant pump housing in red brass → Combination flanges PN 6/PN 10 (for DN 40 to DN 65) 	<ul style="list-style-type: none"> → Constant speed or 3 selectable speed stages (Star-Z...-3), → Quick electrical connection with spring clips → Star-ZD version as double pump

Standard glandless pumps

Glanded special pumps



Series	Wilo-TOP-Z	Wilo-VeroLine-IP-Z
Field of application	Domestic hot water	Domestic hot water
Duty chart		
Construction	Glandless circulator with screwed connection or flange connection	Glanded circulator in in-line design with screwed connection
Application	Domestic hot water circulation systems in industry and in building services	For pumping drinking water, cold and hot water without abrasive substances, in heating, cold water and cooling water systems
Volume flow Q_{max}	65 m ³ /h	5 m ³ /h
Delivery head H_{max}	9 m	4.5 m
Special features	<ul style="list-style-type: none"> → Thermal winding contact (WSK) as potential-free contact (depending on type) → Rotation control lamp indicates the correct direction of rotation (only for 3~) → Thermal insulation as standard 	<ul style="list-style-type: none"> → High resistance to corrosive fluids due to stainless steel housing and Noryl impeller → Wide range of applications due to suitability for water hardness up to 5 mmol/l (28 °dH) → All plastic parts that come into contact with the fluid fulfil KTW recommendations
Technical data	<ul style="list-style-type: none"> → Fluid temperature: drinking water max. +80 °C (+65 °C for TOP-Z 20/4 and TOP-Z 25/6) → Mains connection 1~230 V, 50 Hz; 3~400 V, 50 Hz → Nominal diameter Rp 1 to DN 65 → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature: drinking water up to a water hardness of 4.99 mmol/l (28 °dH) max. +65 °C → Heating water -8 °C to +110 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Nominal diameter Rp 1 → Max. operating pressure 10 bar
Equipment/function	<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) 	<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

Standard glandless circulators for non-EU markets

Inside the EU*

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

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

Outside the EU

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

Star-RS/RSD

TOP-S/SD

TOP-RL

Star-STG



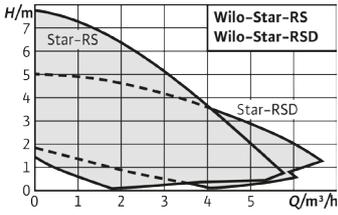
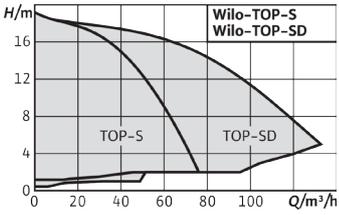
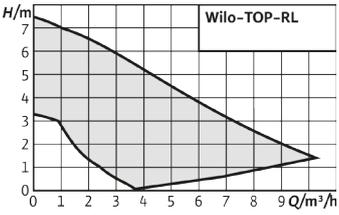
Note

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

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

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

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

	Standard glandless pumps	Standard glandless pumps	Standard glandless pumps
			
Series	Wilo-Star-RS Wilo-Star-RSD	Wilo-TOP-S Wilo-TOP-SD	Wilo-TOP-RL
Field of application	Heating / Air conditioning	Heating / Air conditioning	Heating / Air conditioning
Duty chart			
Construction	Glandless circulator with screwed connection	Glandless circulator with screwed or flanged connection	Glandless circulator with screwed or flanged connection
Application	Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems	Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems	Hot-water heating systems of all kinds, industrial circulation systems, cold water and air-conditioning systems
Volume flow Q_{max}	6.0 m ³ /h	77.0 m ³ /h	10.0 m ³ /h
Delivery head H_{max}	8.0 m	19.0 m	7.0 m
Special features	<ul style="list-style-type: none"> → Suitable for any installation position with horizontal shaft; terminal box in 3-6-9-12 o'clock position → Three pre-selectable speed stages for load adaptation → Easy and safe installation with practical wrench attachment point on the pump housing → Simplified electrical connection to the terminal box with changeable threaded cable connection used from both sides; quick connection with spring clips 	<ul style="list-style-type: none"> → Rotation control lamp indicates the correct direction of rotation (only for 3~) → Manual power adjustment with 3 speed stages → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation formation 	<ul style="list-style-type: none"> → Collective fault signal as potential-free contact (depending on type) → Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation formation
Technical data	<ul style="list-style-type: none"> → Fluid temperature -10 °C to +110 °C → Mains connection 1~230 V, 50 Hz → Screw connection Rp ½, Rp 1, Rp 1½ → Max. operating pressure 10 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +130 °C → Mains connection 1~230 V, 50 Hz (depending on type); 3~400 V, 50 Hz → Nominal diameter Rp 1 to DN 100 → Max operating pressure 10 bar (optional: 16 bar) 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +130 °C → Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz → Nominal diameter Rp 1 to DN 40 → Max operating pressure 10 bar (optional: 16 bar)
Equipment/function	<ul style="list-style-type: none"> → 3 manually selectable speed stages → Wrench attachment point on pump body → Cable inlet possible from both sides – for easy installation → Quick electrical connection with spring clips → RSD version as double pump 	<ul style="list-style-type: none"> → Preselectable speed stages for performance adaptation → Combination flanges PN 6/PN 10 (DN 40 to DN 65) → Pump housing is KTL-coated → Thermal insulation shells for heating applications as standard → Extendable motor protection 	<ul style="list-style-type: none"> → Preselectable speed stages for performance adaptation → Pump housing is KTL-coated → Combination flange PN 6/PN 10 (DN 40)

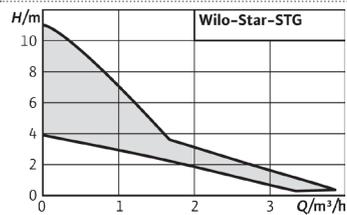
Standard glandless pumps



Series Wilo-Star-STG

Field of application Heating

Duty chart



Construction Glandless circulator with screwed connection

Application Circulation in solar thermal and geothermal energy systems

Volume flow Q_{max} 3.8 m³/h

Delivery head H_{max} 11.0 m

Special features

- Special hydraulics for use in solar thermal and geothermal energy systems
- Pump housing with wrench attachment point
- Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensate formation

Technical data

- Fluid temperature -10 °C to +110 °C, in short-term duty (2 h) +120 °C
- Mains connection 1~230 V, 50 Hz
- Screwed connection Rp ½, Rp 1
- Max. operating pressure 10 bar

Equipment/function

- 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 electrical connection with spring clips
- Pump housing with cataphoretic coating

WILO PUMPS FOR EUROPE'S HIGHEST BUILDING.

ONE THOUSAND PUMPS OPERATE IN MOSCOW'S FEDERATION TOWER.

Rising into the sky like two gigantic mirrors: the crystalline skyscrapers on the north bank of Moskva River. The commercial district Moscow City forms a new silhouette and an impressive contrast to the historic bulbous spires of St. Basil's Cathedral. The twelve-billion-dollar project "Moscow International Business Center" is to become the

new flagship of the megacity. Among the skyscrapers, that form the city's new skyline is the Federation Tower. Currently the tallest building in Europe. The symbol of a new era, the modern Moscow. About one thousand Wilo pumps ensure a smooth supply of heating, air conditioning, ventilation and water.





Modern state-of-the-art skyscrapers line up about five kilometres beeline from the Kremlin: over the past decade, a completely new district was built on a former harbour area. A financial district that is growing steadily. „Moscow City“ is the first project of its kind in the Russian capital – it combines trade, apartments as well as leisure facilities. Offices, shops and hotels emerge on four million square meters – space for more than 300,000 people. Fifty kilometres away from Domodedovo airport, the district can be reached easily via three underground stations or a fast line. For tourists, Moscow has become a more and more popular destination: The observation decks of some of Europe’s tallest buildings, such as the Mercury City Tower or the Federation Tower, offer breath taking views over the city.

FEDERATION TOWER

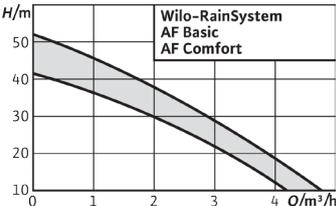
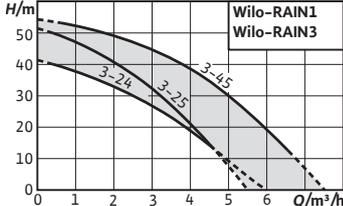
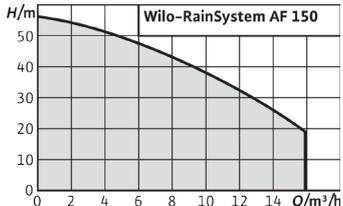
Completed in 2017, Federation Tower, “Baschnja Federazija” as it is called in Russian, is the tallest building in Europe with a height of 374 meters replacing “The Shard” in London (306 meters). The monumental complex consists of two towers with different sizes: the more than 370-meter tower with almost 100 floors is called “Vostok” (East-Tower), Orient, whereas the smaller one with over 60 floors and a height of 243 meters is called “Zapad” (West-Tower), Occident. Beneath the surface, the glass giants share a ten-story foundation. Wilo-Stratos pumps provided by Wilo Russia, ensure efficient and reliable heating, air conditioning and cooling at the same time. Consistently designed for high efficiency, it was the origin of the energy label for pumps with up to 80 per cent energy savings.

HIGH-EFFICIENCY FOR THE HEART OF MOSCOW’S BUSINESS CENTER

As part of a pilot project to test the pumps in operation, Wilo Russia installed 367 models during the construction phase of the West-Tower. Due to its high performance and efficiency, the order for the West-Tower followed in



2007. One year later, the pump expert supplied nearly 600 different product types for all existing building systems: heating, water supply, pressure boosting, sewage, air-conditioning, cooling. The pumps are issued on a total of five different technical floors with an area of 15 000 square meters each. The entire control of the pumps and pump systems is purely electronically controlled via an internal centre – in case of a possible malfunction, a message is sent directly to the smart phone or computer of the building’s Facilities Manager.

	Rainwater utilisation systems	Rainwater utilisation systems	Rainwater utilisation systems
	 Discontinued line	 NEW	
Series	Wilco-RainSystem AF Basic Wilco-RainSystem AF Comfort	Wilco-RAIN1 Wilco-RAIN3	Wilco-RainSystem AF 150
Field of application	Rainwater	Rainwater	Rainwater
Duty chart			
Construction	Ready-to-plug rainwater utilisation system with 1 MultiCargo MC self-priming centrifugal pump	Ready-to-plug rainwater utilisation system with 1 HiMulti3 P self-priming centrifugal pump	Automatic rainwater utilisation system with 2 MultiCargo MC self-priming centrifugal pumps
Application	Rainwater utilisation for saving drinking water in conjunction with rainwater storage tanks or reservoirs	Rainwater utilisation for saving drinking water in conjunction with rainwater storage tanks or reservoirs	Rainwater utilisation in multi-family houses and small businesses for saving drinking water in conjunction with rainwater storage tanks or reservoirs
Volume flow Q_{max}	5 m ³ /h	6 m ³ /h	16 m ³ /h
Delivery head H_{max}	52 m	55 m	55 m
Special features	<ul style="list-style-type: none"> → Low-noise, due to encapsulated system (Comfort) and multistage pump → System fulfils DIN 1989 and EN 1717 → Demand-oriented, flow- and noise-optimised fresh water replenishment → Media-touched components are corrosion-free → Automatic support function for evacuation of air (Comfort) 	<ul style="list-style-type: none"> → Backflow prevention according to DIN1989 and EN1717 → Low noise, encapsulated multistage centrifugal pump → Ready to plug with variety of hydraulic connections → Compact modular construction → Touch screen (RAIN3), user friendly designed interface → Integrated features: dry-running protection, automatic water periodic refresh, adjustable starting pressure 	<ul style="list-style-type: none"> → Low-noise due to multistage pumps → Media-touched components are corrosion-free → Maximum operational reliability due to fully electronic controller (RCP) → Demand-oriented fresh water replenishment → High reliability due to flow-optimised and noise-optimised replenishment reservoir
Technical data	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction head max. 8 m → Fluid temperature +5 °C to +35 °C → Max. operating pressure 8 bar → Replenishment reservoir 11 l → Protection class IP42/IP54 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction head max. 8 m → Fluid temperature +5 °C to +35 °C → Max. operating pressure 8 bar → Replenishment reservoir 11 l → Protection class IP X4 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction head max. 8 m → Fluid temp. +5 °C to +35 °C → Max. operating pressure 8 bar → Replenishment reservoir 150 l → Protection class IP41
Equipment/function	<ul style="list-style-type: none"> → Connection-ready module mounted on a non-corroding base frame → Pressure-side pipework Rp 1 → 1.8/3.0 m connection cable and mains plug → Switchgear Rain Control Basic RCB/Economy RCE with control electronics → Monitoring of rainwater storage levels → Connection for overflow warning 	<ul style="list-style-type: none"> → Connection-ready module on vibration-insulated base frame → Pressure-side pipework Rp 1 → 1.5 m power supply cable and mains plug → Menu-prompted operation and display → Monitoring of rainwater storage levels → Connection for external failure reporting → Integrated overflow warning sensor (RAIN3) 	<ul style="list-style-type: none"> → Connection-ready module on vibration-insulated tubular frame → Pressure sided tubing R 1½, pressure vessel, shut-off device → Pressure gauge 0-10 bar → Central switchgear (RCP) → Menu-prompted operation and display → Pump cycling/test run → Automatic fault-actuated switchover, peak-load operation, water exchange in replenishment reservoir

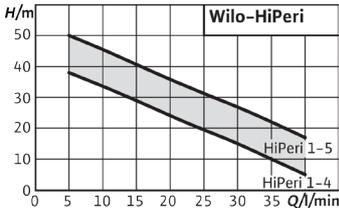
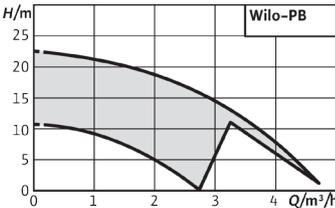
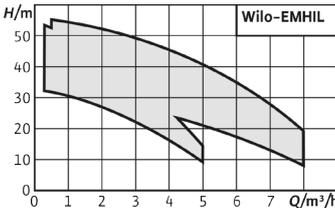
Rainwater utilisation systems

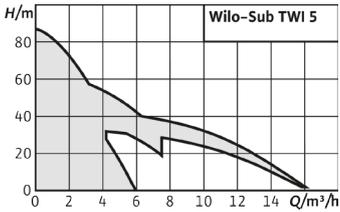
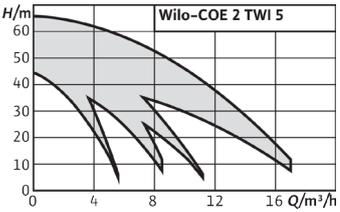
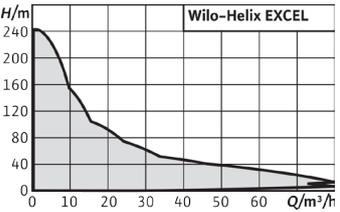
Self priming pumps, self-priming multi-stage pumps and pump systems

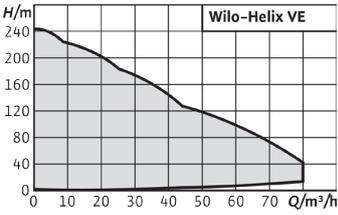
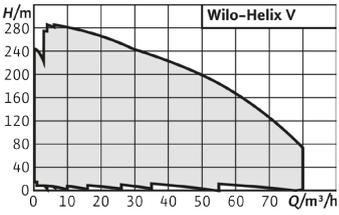
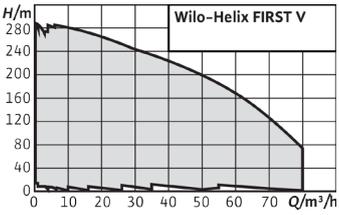
Self- and non self-priming multistage pumps and pump systems

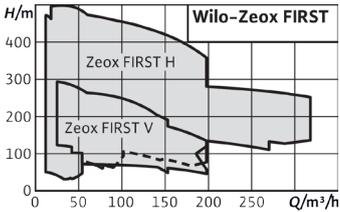
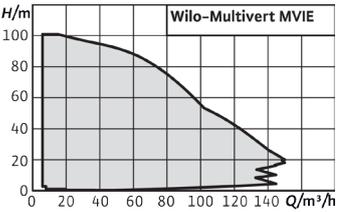
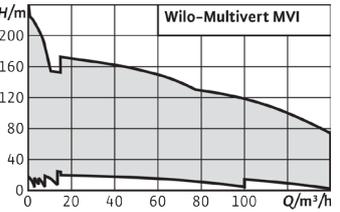


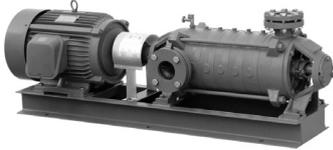
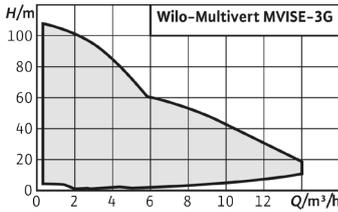
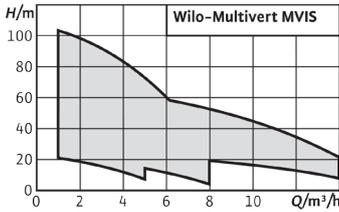
Series	Wilo-RainSystem AF 400	Wilo-Jet WJ Wilo-Jet HWJ	Wilo-HiMulti 3 (P) Wilo-HiMulti 3 C (P) / HiMulti 3 H (P)
Field of application	Rainwater	Rainwater / Pressure boosting / Raw water intake	Rainwater / Pressure boosting / Raw water intake
Duty chart			
Construction	Automatic rainwater utilisation system with run-down tank and 2 MultiPress MP non self-priming centrifugal pumps	Self-priming single-stage centrifugal pumps	Self-priming (version P) and non self-priming multistage pumps and pump systems
Application	Hybrid system for commercial and industrial rainwater utilisation for saving drinking water in conjunction with rainwater storage tanks or reservoirs	For pumping water from wells for filling, pumping empty, transferring by pumping, irrigation and sprinkling As emergency pump for overflows	For domestic potable water supply, sprinkling, irrigation, spraying and rainwater utilisation
Volume flow Q_{max}	16 m ³ /h	5 m ³ /h	7 m ³ /h
Delivery head H_{max}	55 m	50 m	55 m
Special features	<ul style="list-style-type: none"> → Low-noise due to multistage pumps → Media-touched components are corrosion-free → Maximum operational reliability due to a fully electronic controller (RCH) → Demand-oriented fresh water replenishment → Automatic feeding pump control → System/level control in the low-voltage range 	<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"> → Easy: Electrical Wilo-connector, on/off switch, enlarged foot fastening → Efficient and economical: highly efficient hydraulics, extremely compact → HiMulti 3 C (P): Dry-running protection and automation rotatable by 360° for easier installation → HiMulti 3 H (P): Automation and fluid hammer protection
Technical data	<ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Fluid temp. +5 °C to +35 °C → Max. operating pressure 10 bar → Replenishment reservoir 400 l → Protection class IP54 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Inlet pressure max. 1 bar → Fluid temperature +5 °C to +35 °C → Max. operating pressure 6 bar → Protection class IP44 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Inlet pressure max. 3 bar → Fluid temperature 0 °C to +40 °C (+55 °C for max. 10 minutes) → Operating pressure max. 8 bar → Protection class IPX4, IP54
Equipment/function	<ul style="list-style-type: none"> → Connection-ready module on vibration-insulated baseplate → Pressure sided tubing R 1½, pressure vessel, shut-off device → Pressure gauge 0-10 bar → Hybrid tank with all connections, calmed inlets and overflow with siphon → Central switchgear (RCH) → Pump cycling/test run → Automatic fault-actuated switchover, peak-load operation, water exchange in replenishment reservoir 	<ul style="list-style-type: none"> → With or without carrying frame, depending on the version (WJ, FWJ) → 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 1~230 V version → HiMulti 3 C (P): Automatic pump control, low-water cut-out switch → HiMulti 3 H (P): Pressure switch, diaphragm pressure vessel 50 l/100 l

	Non self-priming peripheral pump	Hot-water pressure-boosting pumps	Non self-priming water-supply unit with frequency converter
		 Series modification	
Series	Wilo-HiPeri 1	Wilo-PB	Wilo-EMHIL
Field of application	Rainwater / Pressure boosting / Raw water intake	Pressure boosting	Rainwater / Pressure boosting / Raw water intake
Duty chart			
Construction	Non self-priming peripheral pump	Non self-priming single-stage centrifugal pump of in-line design	Non self-priming water-supply unit with frequency converter
Application	For water supply/pressure boosting, raw water intake, sprinkling and spraying, rainwater utilisation	→ Automatic water supply/pressure boosting for residential properties from a tank feeding extraction points located beneath	Water supply Rainwater utilisation Irrigation and spraying
Volume flow Q_{max}	50 m ³ /h	4.8 m ³ /h	8 m ³ /h
Delivery head H_{max}	3 m	22 m	55 m
Special features	<ul style="list-style-type: none"> → Simple handling thanks to low weight, perfectly suited for permanent operation → Brass impeller for fluids up to 60 °C → Efficient thanks to low power consumption at maximum delivery head and volume flow → Expandable with the electronic pump control Wilo-FluidControl/HiControl 1 	<ul style="list-style-type: none"> → Stable water pressure due to automatic operation → High operational reliability and dry-running protection due to the integrated flow switch → Integrated thermal motor protection as standard → Extremely low-noise operation → Corrosion protection through coated pump hydraulics 	<ul style="list-style-type: none"> → Heavy-duty multistage pump with stainless steel hydraulics → Easy operation and adjustment: Large display screen; LEDs for status display → Plug & Pump → Functions: PID, frost protection, restart after a fault → Float switch can be connected as an option
Technical data	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Inlet pressure max. 1.5 bar → Fluid temperature +5 °C to +60 °C → Max. operating pressure 6.5 bar → Suction/pressure side connections: Rp1 	<ul style="list-style-type: none"> → Mains connection 1~230 V, 50 Hz → Suction/pressure side connections: G¾, Rp1, Rp1¼ → Fluid temperature +5 °C to +80 °C → Max. inlet pressure: 3.0 bar → Max. operating pressure: 5.0 bar 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50/60 Hz → Max. operating pressure: 10 bar → Fluid temperature: 0 °C to +40 °C → Max. ambient temperature: 50 °C
Equipment/function	<ul style="list-style-type: none"> → Single-stage circulating pump with a radial impeller → Can be supplemented by the Wilo-FluidControl resp. HiControl 1 	<ul style="list-style-type: none"> → Directly flanged dry motor → Shaft sealing with mechanical seal → Thermal motor protection → Flow switch, on the pressure side for automatic operation and dry-running protection → Operating options Auto / Off / Manual 	<ul style="list-style-type: none"> → Including 1.4 m mains connection cable and plug → Including EMC filter → With built-in pressure and flow controllers

	Cistern pumps	Non self-priming water-supply unit	Vertical, multistage centrifugal pumps
			
Series	Wilco-Sub TWI 5/TWI 5-SE Wilco-Sub TWI 5-SE PnP	Wilco-Economy COE-2 TWI 5	Wilco-Helix EXCEL
Field of application	Rainwater / Pressure boosting / Raw water intake	Pressure boosting	Pressure boosting
Duty chart			
Construction	Submersible pumps	Pressure boosting system with two parallel submersible pumps	Non self-priming, highly efficient, fully stainless steel high-pressure multistage centrifugal pump with EC motor and integrated high-efficiency drive
Application	For domestic water supply from wells, rainwater storage tanks, and reservoirs. For irrigation, sprinkling, rainwater utilisation or for pumping out water	Pressure boosting and water supply in residential applications and for small commercial installations that require compact construction and a low noise level	Water supply and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation
Volume flow Q_{max}	16 m ³ /h	17 m ³ /h	80 m ³ /h
Delivery head H_{max}	88 m	68 m	240 m
Special features	<ul style="list-style-type: none"> → Ready-to-plug in EM version (1~230 V) → Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304) → Self-cooling motor enables installation outside water 	<ul style="list-style-type: none"> → Pumps in the TWI 5 series with low noise due to water-cooled motor, between 51 dB (A) and 61 dB (A) → 2-pump pressure boosting system in compact design due to vertical pump layout → Economical system, based on the basic functions of the BC switchgear → Long service life due to the stainless steel construction of the pumps and the piping 	<ul style="list-style-type: none"> → High-efficiency EC motor (energy efficiency class IE5 acc. to IEC 60034-30-2) → Integrated electronic control "High-Efficiency Drive" → Easy operation thanks to proven Green Button Technology and clear display → User-friendly cartridge mechanical seal "X-Seal" and spacer coupling (from 5.5 kW) → Drinking water approval
Technical data	<ul style="list-style-type: none"> → Mains 3~400 V or 1~230 V ±10% 50 Hz → Fluid temperature max. +40 °C → Max. operating pressure 10 bar → Protection class IP68 → Pressure-side Rp 1¼ → Suction-side (SE version) Rp 1¼ 	<ul style="list-style-type: none"> → Mains 3~400 V or 1~230 V ±10% 50 Hz → Fluid temperature max: +40 °C → Operating pressure max: 10 bar → Nominal connection diameters G 2"™ 	<ul style="list-style-type: none"> → Fluid temperature -30 to +120 °C with EPDM (-10 to +90 °C with FKM) → Max. operating pressure 16/25 bar → Protection class IP55 → Minimum efficiency index MEI ≥0.7 (Helix EXCEL 16: MEI ≥0.5)
Equipment/function	<ul style="list-style-type: none"> → Connection cable, 20 m → TWI 5 version with standard intake strainer → Variants: → SE: with lateral inlet connecting piece → FS: with built-in float switch → Thermal motor protection for EM version (1~230 V) 	<ul style="list-style-type: none"> → Intake and outflow collector pipes → Ball shut-off valves on the suction side and pressure side → Non-return valve on the pressure side → 1 manometer → 2 pressure switches → BC switchgear 	<ul style="list-style-type: none"> → Impellers, stage chambers and pump housing made of stainless steel 1.4301/1.4404 (AISI 304L/AISI 316L) → Helix EXCEL 2 - 16, PN 16 with oval flanges, PN25 with round flanges → Helix EXCEL 22 - 36, with round flanges → EC IE5 motor → Integrated electronic control

	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
			
Series	Wilo-Helix VE	Wilo-Helix V	Wilo-Helix FIRST V
Field of application	Pressure boosting	Pressure boosting	Pressure boosting
Duty chart			
Construction	Non self-priming multistage pump with integrated frequency converter	Non self-priming multistage pump	Non self-priming multistage pump
Application	Water supply and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation	Water supply and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation	Water distribution and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation
Volume flow Q_{max}	80 m ³ /h	80 m ³ /h	80 m ³ /h
Delivery head H_{max}	240 m	280 m	280 m
Special features	<ul style="list-style-type: none"> → Multistage, speed-configurable stainless steel high-efficiency pump with 2D/3D hydraulics → Optimised design for easy operation, transportation and installation with handles, lantern adjustment and rotatable free flanges → User-friendly display with Green Button Technology and full text menu → IF plug-in module for quick communication with the BMS → Drinking water approval 	<ul style="list-style-type: none"> → Efficiency-optimised, laser-welded 2D/3D hydraulics, flow and degassing optimised → Corrosion-resistant impellers, guide vanes and stage housings → Maintenance-friendly design with particularly robust coupling guard → Drinking water approval 	<ul style="list-style-type: none"> → Efficiency-optimised, laser-welded, optimised 2D/3D hydraulics → Corrosion-resistant impellers, guide vanes and stage housings → Flow and degassing-optimised hydraulic parts → Reinforced pump housing, flow and NPSH-optimised → Space-saving and easy maintenance thanks to compact design
Technical data	<ul style="list-style-type: none"> → Fluid temperature -30 to +120 °C with EPDM (-10 to +90 °C with FKM) → Max. operating pressure 16/25 bar → Max. inlet pressure 10 bar → Protection class IP55 → Minimum efficiency index MEI ≥0.7 (Helix VE 16: MEI ≥0.5) 	<ul style="list-style-type: none"> → Fluid temperature -30 to +120 °C with EPDM (-10 to +90 °C with FKM) → Max. operating pressure 16/25/30 bar → Max. inlet pressure 10 bar → Protection class IP55 → Minimum efficiency index MEI ≥0.7 (Helix V 16: MEI ≥0.5) 	<ul style="list-style-type: none"> → Fluid temperature: -20 to +120 °C → Max. operating pressure: 16/25/30 bar → Protection class: IP55 → Minimum efficiency index MEI ≥0.7 (Helix FIRST V 16: MEI ≥0.5)
Equipment/function	<ul style="list-style-type: none"> → Impellers, stage chambers and pump housing made of stainless steel 1.4301/1.4404 (AISI 304L/AISI 316L) → Helix VE 2 - 16, PN 16 with oval flanges, PN25 with round flanges → Helix VE 22 - 36, with round flanges → IEC standard 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) → Helix V 2 - 16, PN 16 with oval flanges, PN25 with round flanges → Helix V 22 - 36, with round flanges → IEC standard motor 	<ul style="list-style-type: none"> → Corrosion-resistant impellers, guide vanes and stage housings → Helix FIRST V 2 - 16, PN 16 with oval flanges, PN25 with round flanges → Helix FIRST V 22 - 36, with round flanges → IEC standard motor

	Vertical and horizontal, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
			
Series	Wilo-Zeox FIRST H Wilo-Zeox FIRST V	Wilo-Multivert MVIE	Wilo-Multivert MVI
Field of application	Rainwater / Pressure boosting / Raw water intake	Pressure boosting	Pressure boosting
Duty chart			
Construction	Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical or horizontal design with off-line connections	Non self-priming multistage pump with integrated frequency converter	Non self-priming multistage pump
Application	Professional irrigation/agriculture Water supply/pressure boosting Firefighting Heating, air conditioning, cooling	Water supply and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation	Water supply and pressure boosting, Industrial circulation systems, Process water, Closed cooling circuits, Washing systems, Irrigation
Volume flow Q_{max}	280 m ³ /h	145 m ³ /h	155 m ³ /h
Delivery head H_{max}	495 m	100 m	240 m
Special features	<ul style="list-style-type: none"> → High-efficiency hydraulics and high-efficiency IE3 motor → Standard rinsing device for the sealing system → Additional flange alignments and stuffing box packing on request → Bronze impeller on request 	<ul style="list-style-type: none"> → Easy commissioning → Integrated frequency converter with large control range → Full motor protection 	<ul style="list-style-type: none"> → MVI 70..-95.. in stainless steel with pump housing made of cataphoretic-coated cast iron
Technical data	<ul style="list-style-type: none"> → Fluid temperature: -5 °C to +90 °C → Max. suction pressure: Zeox FIRST .. V/.. H: 6/16 bar Max. operating pressure: Zeox FIRST V: 27 bar Zeox FIRST H (DN 65 to DN 1 00): 50 bar; Zeox FIRST H (DN 150): 40 bar → Protection class: IP55 	<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 IP55 → Minimum efficiency index MEI ≥0.4 	<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 IP55 → Minimum efficiency index MEI ≥0.4
Equipment/function	<ul style="list-style-type: none"> → IE3 high-efficiency motor as standard → Flushing by-pass device to ensure a long service life → Packing gland on request, exchangeable without disassembling the pump 	<ul style="list-style-type: none"> → Stainless steel hydraulics with pump housing made of cast iron → MVIE 70.. to 95.. PN 16/25 with round flange → IEC standard motor → Integrated frequency converter with Green Button Technology and LCD display for status indication 	<ul style="list-style-type: none"> → MVI 70.. to 95.. PN 16/PN 25 with round flange → IEC standard motor, 2-pole

	Sectional pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
			
Series	RN, HS, IPB, PJ, STD PLURO, FG/FH	Wilö-Multivert MVISE	Wilö-Multivert MVIS
Field of application	Industrial Process	Pressure boosting	Pressure boosting
Duty chart			
Construction	Multistage high-pressure multistage centrifugal pump in sectional construction, mounted on baseplate	Non self-priming multistage pump with glandless pump motor and integrated frequency converter	Non self-priming multistage pump with glandless pump motor
Application	Metal industry, mine dewatering, desalination plants, boiler supply, firefighting, high-pressure cleaning, water supply	Water supply and pressure boosting	Water supply and pressure boosting
Volume flow Q_{max}	1,000 m ³ /h	14 m ³ /h	14 m ³ /h
Delivery head H_{max}	1800 m	110 m	110 m
Special features	<ul style="list-style-type: none"> → Modular design ensures pump versions in a variety of materials and versions which can be adapted to meet customer demands precisely → Hydraulic pressure compensation relieves load on bearings and ensures a longer service life → Multiple optional pressure connections allow different pressures to be supplied from a single pump 	<ul style="list-style-type: none"> → Glandless pump technology → Virtually noiseless operation (up to 20 dB [A] quieter than conventional pumps) → Space-saving, compact design → Virtually maintenance-free thanks to a design which does not feature any mechanical seals → Drinking water approval for all components that come in contact with the fluid (EPDM version) 	<ul style="list-style-type: none"> → Glandless pump technology → Virtually noiseless operation (up to 20 dB [A] quieter than conventional pumps) → Space-saving, compact design → Virtually maintenance-free thanks to a design which does not feature any mechanical seals → Drinking water approval for all components that come in contact with the fluid (EPDM version)
Technical data	<ul style="list-style-type: none"> → Permitted temperature range up to +80 °C, or up to +160 °C on request → Max. operating pressure 180 bar → Nominal diameter on pressure side DN 32 to DN 250 → 2- or 4-pole 50 Hz motors, 60 Hz on request 	<ul style="list-style-type: none"> → Fluid temperature -15 to +50 °C → Max. operating pressure 16 bar → Max. inlet pressure 16 bar → Protection class IP44 	<ul style="list-style-type: none"> → Fluid temperature -15 to +50 °C → Max. operating pressure 16 bar → Max. inlet pressure 10 bar → Protection class IP44
Equipment/function	<ul style="list-style-type: none"> → 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 → Supplied as a complete unit: with pump, coupling, motor mounted on baseplate or without motor or as pump only, with free shaft end 	<ul style="list-style-type: none"> → Multistage, non self-priming, vertical high-pressure centrifugal pump in in-line design → Glandless three-phase motor with integral water-cooled frequency converter → Hydraulic connection with oval flanges PN 16. Counter flanges made of stainless steel with female thread, screws and gaskets (scope of delivery) 	<ul style="list-style-type: none"> → Multistage, non self-priming, vertical high-pressure centrifugal pump in in-line design → Glandless three-phase motor → Hydraulic connection with oval flanges PN 16, counter flanges made of stainless steel with female thread, screws and gaskets (scope of delivery)

Horizontal, multistage centrifugal pumps

Horizontal, multistage centrifugal pumps

Multistage, horizontal centrifugal pumps


Series	Wilo-Economy MHIE	Wilo-Economy MHI	Wilo-Medana CH1-L
Field of application	Pressure boosting	Pressure boosting	Pressure boosting
Duty chart			
Construction	Non self-priming multistage pump with integrated frequency converter	Non self-priming multistage pump	Multistage, horizontal centrifugal pumps
Application	Water supply and pressure boosting, Industrial circulation systems, Cooling water circulation systems, Washing and sprinkling systems	Water supply and pressure boosting Commerce and industry Cooling water circulation systems Washing and sprinkling systems	Pumping of process water and drinking water for: irrigation, pressure boosting, industrial applications (e. g. cooling circuits, car wash)
Volume flow Q_{max}	32 m ³ /h	25 m ³ /h	18 m ³ /h
Delivery head H_{max}	88 m	70 m	78 m
Special features	<ul style="list-style-type: none"> → Easy commissioning → All parts that come in contact with the fluid are made of stainless steel → Compact design → Integrated frequency converter → Full motor protection → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) 	<ul style="list-style-type: none"> → All parts that come in contact with the fluid are made of stainless steel → Compact design → WRAS/KTW/ACS approval for all parts that come in contact with the fluid (EPDM version) 	<ul style="list-style-type: none"> → Captive nuts on connections (option) → Cathaphoretic-coated lantern → Oblong hole for fixation
Technical data	<ul style="list-style-type: none"> → Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP54 	<ul style="list-style-type: none"> → Fluid temperature -15 to +110 °C → Max. operating pressure 10 bar → Inlet pressure max. 6 bar → Protection class IP54 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50/60 Hz → 3~380/400/460 V, 50/60 Hz → Rated pressure: 10 bar → Fluid temperature: -20 °C to 120 °C → Ambient temperature: -15 °C to 50 °C
Equipment/function	<ul style="list-style-type: none"> → Stainless steel in monobloc design → Threaded connection → Integrated frequency converter → Single-phase or three-phase AC motor → Three-phase version with LCD → display for status indication → Integrated thermal motor protection 	<ul style="list-style-type: none"> → Stainless steel pump in monobloc design → Threaded connection → Single-phase or three-phase AC motor → Single-phase AC motor with integrated thermal motor protection 	<ul style="list-style-type: none"> → Pump housing and impellers made of stainless steel → AC motor: 3~ > 0.75 AC IE3, 3~ < 0.75 AC IE2 → AC motor: 1~ AC IE1/IE2 → Protection class: IP55 → Threaded connection

Horizontal, multistage centrifugal pumps

Multistage, horizontal centrifugal pumps

Vertical, multistage centrifugal pumps



Series	Wilo-Economy MHIL	Wilo-Medana CH1-LC	Wilo-Multivert MVIL
Field of application	Pressure boosting	Pressure boosting	Pressure boosting
Duty chart			
Construction	Non self-priming multistage pump	Multistage, horizontal centrifugal pumps	Non self-priming multistage pump
Application	Water supply and pressure boosting, Commerce and industry, Washing and spraying systems, Rainwater utilisation, Cooling and cold water circulation systems	Pumping of process water for: irrigation, pressure boosting, industrial applications (e.g. cooling circuits, car wash)	Water supply and pressure boosting, Commerce and industry, Washing and spraying systems, Rainwater utilisation, Cooling and cold water circuits
Volume flow Q_{max}	13 m ³ /h	18 m ³ /h	13 m ³ /h
Delivery head H_{max}	68 m	78 m	135 m
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 	<ul style="list-style-type: none"> → Cataphoretic-coated lantern → New drilled hole for fixation 	<ul style="list-style-type: none"> → Space-saving, compact block design
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 IP54 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50/60 Hz - 3~380/400/460 V, 50/60 Hz → Rated pressure: 10 bar → Fluid temperature: -20 °C to 90 °C → Ambient temperature: -15 °C to 50 °C 	<ul style="list-style-type: none"> → Fluid temperature -15 to +90 °C → Max. operating pressure or max. 10 or 16 bar, depending on type → Max. inlet pressure 6 or 10 bar, depending on type → Protection class IP54 → Minimum efficiency index MEI ≥0.4
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 housing made of cast iron and impellers made of stainless steel → AC motor: 3~ > 0.75 AC IE3, 3~ < 0.75 AC IE2 → AC motor: 1~ AC IE1/IE2 → Protection class: IP55 	<ul style="list-style-type: none"> → Pump in in-line design → Hydraulics in 1.4301, pump housing in EN-GJL-250 → Oval flange → Single-phase or three-phase AC motor

Single-pump pressure boosting systems with speed-controlled pump
Single-pump pressure boosting systems
Single-pump pressure boosting systems with system separation


Series extension



Series	Wilo-SiBoost Smart 1 Helix VE... SiBoost Smart 1 MVISE...	Wilo-Economy CO-1 MVI(S) .../ER Economy CO-1 Helix V .../CE+	Wilo-Economy CO/T-1 Helix V .../CE Comfort-Vario COR/T-1 Helix VE ...-GE
Field of application	Pressure boosting	Pressure boosting	Pressure boosting
Duty chart			
Construction	Water-supply units with a non self-priming, high-pressure multistage centrifugal pump with integrated speed control of the series Helix VE or MVISE	Water supply systems with a non self-priming, high-pressure multistage centrifugal pump of the series MVIS, MVI or Helix V	Water supply systems with system separation and a non self-priming, high-pressure multistage centrifugal pump of the Helix V or VE series
Application	Full automatic water supply from public water supply network or reservoir For pumping drinking/process water, cooling water, water for firefighting	Full automatic water supply from public water supply network or reservoir For pumping drinking/process water, cooling water, water for firefighting	Full automatic water supply from the public water supply network For pumping drinking/process water, cooling water, water for firefighting
Volume flow Q_{max}	90 m ³ /h	135 m ³ /h	10 m ³ /h
Delivery head H_{max}	142 m	160 m	120 m
Special features	<ul style="list-style-type: none"> → For systems with MVISE pump applies: Up to 20 dB(A) quieter than comparable systems → For systems with Helix VE pump → Optimised hydraulics → Cartridge mechanical seal → IE4 standard motor 	<ul style="list-style-type: none"> → For systems with MVIS pump applies: Up to 20 dB(A) quieter than comparable systems → For systems with Helix V pump → Optimised hydraulics → Cartridge mechanical seal → IE3 standard motors for Helix V 	<ul style="list-style-type: none"> → Compact system, ready for connection, for all applications that require system separation → High-efficiency pump hydraulics → Helix V with IE3 standard motors → Helix VE with IE4 standard motors
Technical data	<ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 16 bar → Inlet pressure 6/10 bar → Protection class IP44/IP54 	<ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Switching stage 6/10/16 bar → Protection class IP41/IP54 	<ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz (other versions on request) → Max. fluid temperature 40 °C → Operating pressure 16 bar → Inlet pressure 6 bar → Protection class CO/T=IP54, COR/T=IP55
Equipment/function	<ul style="list-style-type: none"> → New innovative pressure-variable control → Components with fluid contact are corrosion-resistant → Pipework made of stainless steel → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16 	<ul style="list-style-type: none"> → Components with fluid contact are corrosion-resistant → Base frame with height-adjustable vibration absorbers for insulation against structure-borne noise → Pipework stainless steel → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side 	<ul style="list-style-type: none"> → PE break tank, atmospherically ventilated (150 l) → Components with fluid contact are corrosion-resistant → Pipework stainless steel → Shut-off device, on the pressure side → Non-return valve, on the pressure side → Break tank with float-valve, -switch → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Low-water cut-out switchgear

Multi-pump pressure boosting systems with speed-controlled pumps

Multi-pump pressure boosting systems with speed-controlled pumps

Multi-pump pressure boosting systems



Series	Wilo-SiBoost Smart MVISE SiBoost Smart (FC) Helix V, ..VE, ..EXCEL	Wilo-Comfort-(N)-COR..MVI(S)..CC Comfort-COR..Helix V(E)..CC(e)	Wilo-Economy CO..MHI (Helix)..ER (CE) Comfort-(N)-CO..MVI(S) or Helix V..CC
Field of application	Pressure boosting	Pressure boosting	Pressure boosting
Duty chart			
Construction	Highly efficient system with 2 to 4 stainless steel, non self-priming, high-pressure multistage centrifugal pumps (Helix V, VE, EXCEL, MVISE) switched in cascade or synchronous motor speed	Pressure boosting system with speed control and 2 to 6 non self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in cascade	Pressure boosting system with Economy 2 to 4 respectively Comfort 2 to 6 non self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in cascade
Application	Full automatic water supply in residential/office buildings & industrial systems For pumping drinking/process water, cooling water, water for firefighting	Full automatic water supply in residential/office buildings & industrial systems For pumping drinking/process water, cooling water, water for firefighting	Full automatic water supply in residential/office buildings & industrial systems For pumping drinking/process water, cooling water, water for firefighting
Volume flow Q_{max}	360 m³/h	800 m³/h	800 m³/h
Delivery head H_{max}	158 m	160 m	160 m
Special features	<ul style="list-style-type: none"> → High-efficiency pump hydraulics → Helix V with IE3 standard motors, Helix VE with IE4, Helix EXCEL with High-efficiency EC motor (IE5 acc. to IEC 60034-30-2) → Hydraulics of entire system are pressure-loss optimised → Integrated dry-running detection and low water cut-out switch → Systems with MVISE: Up to 20 dB(A) quieter than comparable systems 	<ul style="list-style-type: none"> → Compact system in accordance of DIN 1988 (EN 806) → Series with Helix VE integrated frequency converter → For systems with MVIS pumps: Up to 20 dB(A) quieter than comparable systems 	<ul style="list-style-type: none"> → Compact system in accordance of DIN 1988 (EN 806) → For systems with MVIS pumps: Up to 20 dB(A) quieter than comparable systems
Technical data	<ul style="list-style-type: none"> → Mains connection <ul style="list-style-type: none"> - Helix V: 3~230 V/400 V, 50 Hz - Helix VE and EXCEL: 3~400 V, 50 Hz → Max. fluid temperature 70 °C → Operating pressure 16/25 bar → Inlet pressure 10 bar → Protection class IP54 	<ul style="list-style-type: none"> → Mains connection 3~230 / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP54 	<ul style="list-style-type: none"> → Mains connection 3~230 V / 400 V, 50 Hz → Max. fluid temperature 50 °C → Operating pressure 10/16 bar → Inlet pressure 6/10 bar → Protection class IP54
Equipment/function	<ul style="list-style-type: none"> → Automatic pump control via Smart Controller SC → Innovative pressure-variable control for Helix VE, EXCEL, MVISE → Components with fluid contact are corrosion-resistant → Shut-off device on suction and pressure sides of each pump → Non-return valve, pressure sensor, diaphragm pressure vessel 8 l, PN 16, on pressure side → Low-water sensor standard for VE, EXCEL, MVISE 	<ul style="list-style-type: none"> → Base-load pump continuous auto controlled via frequency converter in the CC controller → Components with fluid contact are corrosion-resistant → Pipework stainless steel 1.4571 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Pressure sensor, on the discharge side 	<ul style="list-style-type: none"> → Components with fluid contact are corrosion-resistant → Pipework made of stainless steel 1.4571 → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Pressure sensor, on the discharge side

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

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

Fire-extinguishing systems for sprinkler systems according to EN 12845



Series	Wilo-FLA	Wilo-FLA Compact	Wilo-SiFire EN SiFire Easy
Field of application	Firefighting	Firefighting	Firefighting
Duty chart			
Construction	Pressure boosting system for firefighting applications with 1 to 2 autonomously operating, non self-priming, stainless steel, high-pressure, multistage centrifugal pumps	Pressure boosting system for firefighting, 1 to 2 autonomously operating, non self-priming, stainless steel, high-pressure, multistage centrifugal pumps with break tank	Pressure boosting system for firefighting, 1 or 2 pumps on horizontal base frame – EN 733 – spacer coupling, electro- or diesel motor and multistage, electrical, vertical jockey pump
Application	For supply of firefighting water from fire hose reels in accordance with DIN 14462	For supply of firefighting water from fire hose reels in accordance with DIN 14462	Full automatic water supply of fire-extinguishing systems with sprinkler system in accordance with EN 12845
Volume flow Q_{max}	100 m ³ /h	18 m ³ /h	750 m ³ /h
Delivery head H_{max}	159 m	142 m	128 m
Special features	<ul style="list-style-type: none"> → Compact system in accordance of DIN 14462 → Variants → Single-pump system → Double-pump system with redundant single-pump systems in a base frame → Comes as standard with pump protection by means of minimum volume discharge via bypass circuit without auxiliary energy 	<ul style="list-style-type: none"> → Compact system with break tank in accordance with DIN 14462 → Variants → Single-pump system → Double-pump system with two redundant single-pump systems on a base frame → Comes as standard with pump protection by means of minimum volume discharge via bypass circuit without auxiliary energy 	<ul style="list-style-type: none"> → Compact system (just one base frame) in accordance with EN 12845 → Jockey pump for maintaining the required pressure in the system; with automatic start/stop function → Sized diaphragm at the pump outlet for a minimum bypass line so that the pump is protected at a low volume flow → The cables are hidden in the construction and are thus protected from shocks or cuts
Technical data	<ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Max. fluid temperature 50 °C → Max. operating pressure 16 bar → Inlet pressure 6 bar → Protection class IP54 	<ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz → Fluid temperature max. 50 °C → Operating pressure up to 16 bar → Inlet pressure from break tank < 1 bar → Protection class of operating device IP54 → Round break tank (540 l) 	<ul style="list-style-type: none"> → Mains connection 3~400 V, 50 Hz (1~230 V, 50 Hz panel diesel pump) → Fluid temperature max. +40 °C → Max. operating pressure 10/16 bar → Max. inlet pressure 6 bar → Protection class of the switch cabinet IP54
Equipment/function	<ul style="list-style-type: none"> → Components that come in contact with fluid are corrosion-resistant → Pipework made of stainless steel → Shut-off device at each pump, on the suction and pressure sides → Non-return valve, on the pressure side → Diaphragm pressure vessel 8 l, PN 16, on pressure side → Pressure switch, on the discharge side 	<ul style="list-style-type: none"> → Components with fluid contact are corrosion-resistant → Pipework stainless steel → Ball shut-off valve on pressure side → Gate valve between pump and break tank with free outlet according to EN 13077, type AB according to DIN EN 1717 → Non-return valve, on pressure side → Diaphragm pressure vessel 8 l, PN16, on pressure side → Pressure switch, on pressure side 	<ul style="list-style-type: none"> → A circuit with double pressure switch, pressure gauge, non-return valve, valve for the main and standby pump for an automatic start → Pipework in steel; painted with epoxy resin. Distributor with flanges → Shutting gate with safety lock on the pressure side of the pump → Non-return valve on the pressure side of every pump → DN2" connection for the priming tank of the pumps → Pressure measuring on pressure side

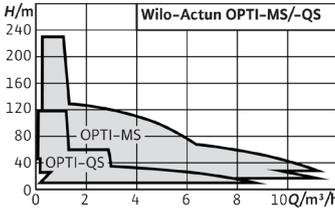
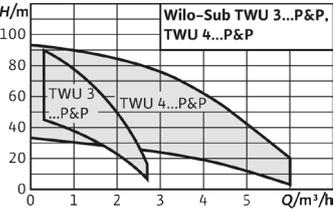
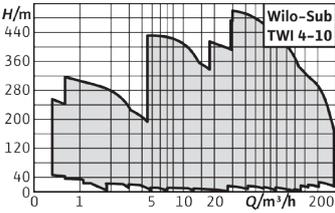
Certified fire-extinguishing systems for hydrant and sprinkler systems according to DIN 14462 or EN 12845

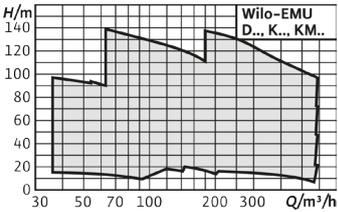
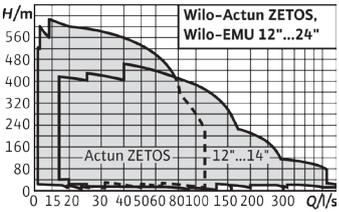
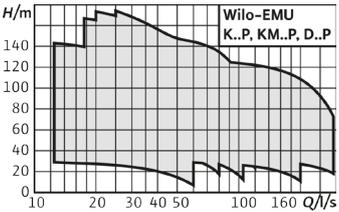
Submersible pumps

Submersible pumps



Series	Wilo-GEP Fire	Wilo-Sub TWU 3 Wilo-Sub TWU 3-...-HS	Wilo-Sub TWU 4 ..., ...-QC, ...-GT
Field of application	Firefighting	Raw water intake / Rainwater / Air conditioning	Raw water intake / Rainwater / Irrigation
Duty chart			
Construction	Pressure boosting system for firefighting applications with 1 to 12 multistage centrifugal pumps with/without break tank, with/without housing	Submersible pump, multistage	Submersible pump, multistage
Application	Fire water supply of exterior-/wall hydrants for high-rise buildings & large properties-no valves for pressure reduction-plus sprinkler/water spray systems	For water supply, sprinkling, irrigation with water without long-fibre or abrasive components from boreholes, wells, rainwater storage	Pumping of water from boreholes, wells, rainwater storage for water supply, sprinkling, irrigation, lowering ground water level
Volume flow Q_{max}	certified up to 1000 m ³ /h	6.5 m ³ /h	22 m ³ /h
Delivery head H_{max}	250 m, up to 450 m on request	130 m	322 m
Special features	<ul style="list-style-type: none"> → Room air cooling, full fairing → Split version for installation/transport → Pressure-maintaining pump or pilot pump as an option → Combination with industrial water system → Real pressure method and VR controller for high-rise buildings and large properties → Monitoring of switchgear and ambient temperature 	<ul style="list-style-type: none"> → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Supply security with constant pressure thanks to extended pump performance due to a higher speed of up to 8,400 rpm (TWU 3/HS) → Frequency converter with integrated and menu-guided control (TWU 3/HS) 	<ul style="list-style-type: none"> → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve → Low wear due to floating impellers → Maintenance-friendly motor
Technical data	<ul style="list-style-type: none"> → TÜV, DEKRA, DVGW, SVGW certified → Hygienic safety by free outlet (EN 1717) → Stainless steel run-down tank → Automatic function test up to redundancy stage 3 → Small installation surface min. 0.64 m² 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Fluid temperature: 3-35 °C → Max. sand content: 50 g/m³ → Max. immersion depth: 150 m 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Fluid temperature: 3-30 °C → Max. sand content: 50 g/m³ → Max. immersion depth: 200 m
Equipment/function	<ul style="list-style-type: none"> → Drainage or pump emergency drainage (EN12056) for total volume flow → Installation possible below backflow level → No valves for reducing pressure in the main flow of the fire-extinguishing system → Effective maintenance management and permanent information on the operation via smartphone, tablet or PC 	<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

	Submersible pumps	Submersible pump system	Submersible pumps
			
Series	Wilo-Actun OPTI-MS Wilo-Actun OPTI-QS	Wilo-Sub TWU 3 ... Plug & Pump Wilo-Sub TWU 4 ... Plug & Pump	Wilo-Sub TWI 4/6/8/10 ...
Field of application	Raw water intake / Rainwater / Irrigation	Raw water intake / Rainwater / Air conditioning	Distribution and boosting / Clean water treatment / Raw water intake
Duty chart			
Construction	Submersible pump, multistage; in tie strap version (MSI, QSI) or as a progressive cavity pump (MSH, QSH)	Water-supply unit with submersible pump, control and complete accessories	Submersible pump, multistage
Application	Pumping of water from boreholes, wells, rainwater tanks for water supply, sprinkling, irrigation; For operation with photovoltaic modules	For water supply, sprinkling, irrigation with water without long-fibre or abrasive components from boreholes, wells, rainwater storage	Pumping of (drinking) water from boreholes, wells, rainwater storage for water supply, sprinkling, irrigation, lowering ground water level
Volume flow Q_{max}	11 m ³ /h	6 m ³ /h	165 m ³ /h
Delivery head H_{max}	230 m	88 m	500 m
Special features	<ul style="list-style-type: none"> → All parts in contact with the fluid are made of stainless steel → Integrated non-return valve → Low wear due to floating impellers → Types with helical rotor for high head at low speed → Permanent magnet motor → Built-in frequency inverter with MPPT function 	<ul style="list-style-type: none"> → Easy installation thanks to pre-mounted and pre-wired components → Parts in contact with the fluid are corrosion-resistant → Integrated non-return valve 	<ul style="list-style-type: none"> → Corrosion-resistant thanks to stainless steel version → Flexible installation thanks to vertical and horizontal installation → Easy installation due to integrated non-return valve → Large performance range → ACS approval for TWI 4 for drinking water application
Technical data	<ul style="list-style-type: none"> → Operating voltage: <ul style="list-style-type: none"> - MSI/MSH: 90-400 VDC or 90-265 VAC - QSI/QSH: 70-190 VDC → Fluid temperature max.: 35 °C → Max. sand content: 50 g/m³ → Max. immersion depth: 150 m 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Fluid temperature: 3-30 °C → Max. sand content: 50 g/m³ → Max. immersion depth TWU 3/TWU 4: 150/200 m 	<ul style="list-style-type: none"> → Mains: 1~230 V, 50 Hz (only TWI 4 ...) or 3~400 V, 50 Hz → Fluid temperature: 3-20 °C or 3-30 °C → Max. sand content: 50 g/m³ → Max. immersion depth: 100-350 m
Equipment/function	<ul style="list-style-type: none"> → Type MSI/QSI: Multistage submersible pump with radial impellers in jacket design → Type MSH/QSH: Hydraulics with helical rotor within double helix rubber stator → Integrated non-return valve → Permanent magnet motor, capsulated with water-glycol-filling → Integrated frequency converter 	<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 with radial or semi-axial impellers → Integrated non-return valve → NEMA coupling → Single-phase or three-phase AC motor

	Sprinkler pumps with VdS approval	Submersible pumps	Submersible pumps
			
Series	Wilo-EMU sprinkler pumps	Wilo-EMU 12"…24" Wilo-Actun ZETOS-K	Wilo-EMU polder pumps
Field of application	Firefighting	Clean water treatment / Raw water intake / Irrigation	Clean water treatment / Raw water intake / Industrial Process
Duty chart			
Construction	Submersible pump with sectional construction	Submersible pump with sectional construction	Polder pump
Application	Supplying sprinkler systems	(Drinking) water supply from boreholes, rainwater tanks; for sprinkling/irrigation/pressure boosting; municipal/industrial/geothermal/offshore use	Drinking/process water from boreholes, rainwater tanks; sprinkling/irrigation/groundwater lowering; municipal/industrial/geothermal/offshore use
Volume flow Q_{max}	580 m³/h	2,400 m³/h	1,200 m³/h
Delivery head H_{max}	140 m	640 m	160 m
Special features	<ul style="list-style-type: none"> → VdS certification → Sturdy version in cast iron or bronze → Pressure shroud in corrosion-resistant and hygienic stainless steel version with rubber bearing for minimising noise and vibrations → VdS certified non-return valve is available as an accessory 	<ul style="list-style-type: none"> → Pressure shroud in corrosion-resistant and hygienic stainless steel version → Hydraulic in stainless steel precision casting (Actun ZETOS-K) → Maintenance-friendly, rewindable motors → Optionally with Ceram CT coating for increasing the efficiency → Optionally with ACS approval for drinking water application 	<ul style="list-style-type: none"> → Deep water lowering thanks to self-cooling motors → Sturdy version in cast iron or bronze → Compact construction → Maintenance-friendly, rewindable motors → Optionally with Ceram CT coating for increasing the efficiency
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V/50 Hz → Max. fluid temperature: 25 °C or on request → Max. sand content: 35 g/m³ → Max. immersion depth: 100 m or 300 m 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 ... 30 °C → Max. sand content: 35 g/m³ or 150 g/m³ → Max. immersion depth: 100/300/350 m 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Max. fluid temperature: 20 °C → Minimum flow across outside shroud: not necessary → Max. sand content: 35 g/m³ → Max. immersion depth: 300 m
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 → 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

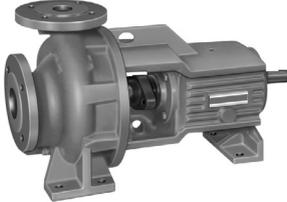
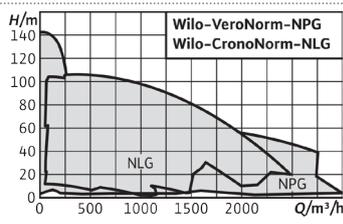
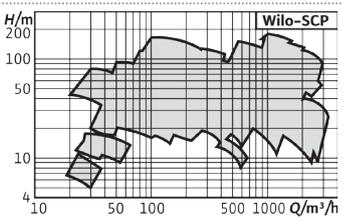
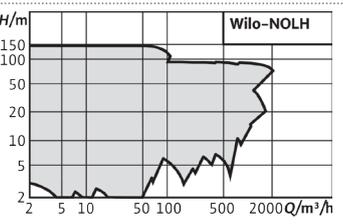
Vertical turbine pumps

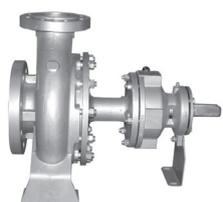
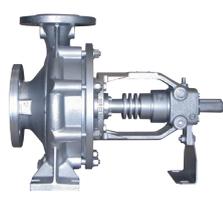
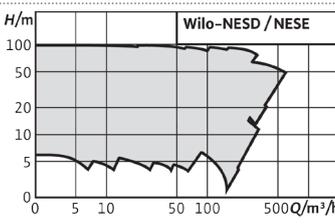
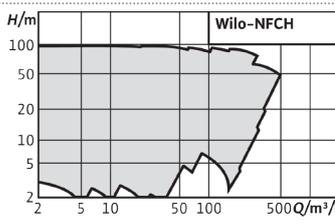
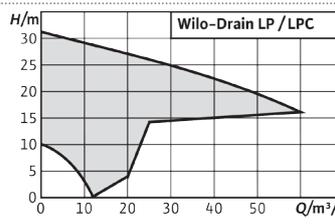
Standard glanded pumps

Standard glanded pumps



Series	Series VMF, CNE, VAF	Wilo-Atmos GIGA-N	Wilo-CronoNorm-NL
Field of application	Raw water intake / Firefighting / Industrial Process	Heating / Air conditioning / Industrial Process / Clean water treatment / Distribution and boosting / Irrigation	Heating / Air conditioning / Clean water treatment
Duty chart			
Construction	Vertical turbine pumps for dry well installation with submerged axial or semi-axial hydraulics	Single-stage, low-pressure centrifugal pump with axial suction, mounted on a baseplate.	Single-stage low-pressure centrifugal pump with axial suction, according to EN 733 and ISO 5199, mounted on a baseplate
Application	Industrial or municipal water supply irrigation, firefighting Cooling water supply Dewatering, flood control	Pumping of heating water (in accordance with VDI 2035), cold water, water-glycol mixtures in heating, cold water and cooling systems.	Pumping of heating water, cold water, water-glycol mixtures in municipal water supply, general industry, power stations etc.
Volume flow Q_{max}	40,000 m ³ /h	1000 m ³ /h	650 m ³ /h
Delivery head H_{max}	450 m	150 m	150 m
Special features	<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"> → Energy-saving thanks to increased overall efficiency through improved hydraulics and the use of IE3 motors → Cataphoretic coating of all cast components for high corrosion resistance and long service life → Universally usable thanks to standardised dimensions, a range of motor options and impellers made of different materials 	<ul style="list-style-type: none"> → Reduced life-cycle costs through optimised efficiency levels → Bidirectional, force-flushed mechanical seal → Low NPSH values, best cavitation properties → Shaft coupling with or without spacer coupling
Technical data	<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"> → Permissible temperature range of -20 °C to +140 °C → Mains connection 3~400 V, 50 Hz → Protection class IP55 → Nominal diameter DN 32 to DN 150 → Max. operating pressure 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameter: DN 50 to DN 500 (suction side), DN 32 to DN 500 (pressure side) → Operating pressure: depending on type and application – up to 16 bar
Equipment/function	<ul style="list-style-type: none"> → 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 → 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 monobloc design with coupling, coupling guard, motor and baseplate	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings in process design → Shaft sealing: mechanical seals in accordance with EN 12756 or stuffing box packing → Spiral housing with cast pump support feet → Shaft coupling with spacer coupling → Motors ≥ 0.75 kW: IE3

	Standard glanded pumps	Axially split case pumps	Standard pumps in accordance with EN 733
			
Series	Wilo-CronoNorm-NLG Wilo-VeroNorm-NPG	Wilo-SCP	NOLH
Field of application	Heating / Air conditioning / Clean water treatment	Distribution and boosting / Clean water treatment / Irrigation	Industrial Process
Duty chart			
Construction	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	Single-stage low-pressure centrifugal pump with axial suction connection and radial, upwards-facing pressure connection, mounted on a baseplate
Application	Pumping of heating water, cold water, water-glycol mixtures in municipal water supply, general industry, power stations etc.	Pumping of heating water (acc. VDI 2035), cold water, process water, water-glycol mixtures in heating, cold water and cooling systems.	
Volume flow Q_{max}	2,800 m ³ /h	3,400 m ³ /h	1,800 m ³ /h
Delivery head H_{max}	140 m	245 m	140 m
Special features	<p>NLG:</p> <ul style="list-style-type: none"> → Reduced life cycle costs through optimised efficiency → Mechanical seal independent of the direction of rotation → Interchangeable casing wear ring → Permanently lubricated, generously dimensioned roller bearings <p>NPG:</p> <ul style="list-style-type: none"> → Suitable for temperatures up to 140 °C → Back pull-out version 	<ul style="list-style-type: none"> → Higher volume flows up to 17,000 m³/h on request → Special motors and other materials on request 	<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 → Pumping of clean or slightly muddy fluids without solid material
Technical data	<ul style="list-style-type: none"> → Fluid temperature -20 °C to +120 °C (depending on type) → Mains connection 3~400 V, 50 Hz → Nominal diameters: DN 150 to DN 500 (depending on type) → Operating pressure: depending on type and application – up to 16 bar 	<ul style="list-style-type: none"> → Fluid temperature -8 °C to +120 °C → Mains connection 3~400 V, 50 Hz → Nominal diameters – Suction side: DN 65 to DN 500 → Pressure side: DN 50 to DN 400 → Max. operating pressure: 16 or 25 bar, depending on type 	<ul style="list-style-type: none"> → Permitted temperature range -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
Equipment/function	<ul style="list-style-type: none"> → Single-stage horizontal spiral housing pump with bearing bracket and exchangeable casing wear rings (NLG only) in process design → Shaft sealing with mechanical seals in accordance with EN 12756 or stuffing box packing → Spiral housing with cast pump bases → Greased grooved ball bearings for bearing of pump shaft → Motors with efficiency class IE3 	<ul style="list-style-type: none"> → 1- or 2-stage, low-pressure centrifugal pump in monobloc design → Deliverable as complete unit or without motor or only pump hydraulics → Shaft sealing with mechanical seal or stuffing box packing → 4-pole and 6-pole motors → Materials: → Pump housing: EN-GJL-250 → Impeller: G-CuSn5 ZnPb → Shaft: X12Cr13 	<ul style="list-style-type: none"> → Dimensions and hydraulic output as per EN 733 → Hydraulics: cast iron (ML) or stainless steel (MX) depending on version → Sealed by uncooled mechanical seal → With or without spacer coupling → 2 or 4-pole IEC standard motor → Baseplate: steel or cast iron → Supplied as complete unit with pump, coupling, coupling guard, motor and baseplate or without motor or pump only, with free shaft end

	Standard pumps in accordance with EN 733 and EN 22858	Standard pumps in accordance with EN 733	Self-priming drainage pumps
			
Series	Series NESD Series NESE	Series NFCH	Wilo-Drain LP Wilo-Drain LPC
Field of application	Industrial Process	Industrial Process	Dewatering and flood control / Industrial Process / Irrigation
Duty chart			
Construction	Single-stage low-pressure centrifugal pump with axial suction connection and radial, upwards-facing pressure connection mounted on a baseplate	Single-stage low-pressure centrifugal pump with axial suction connection and radial, upwards-facing pressure connection, mounted on a baseplate	Non-submersible self-priming drainage pump
Application	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	Pumping of → Wastewater → Process water
Volume flow Q_{max}	600 m ³ /h	1,000 m ³ /h	60 m ³ /h
Delivery head H_{max}	90 m	90 m	29 m
Special features	<ul style="list-style-type: none"> → Impeller diameter is adjusted to the desired duty point → 60 Hz or ATEX version on request → Special self-cooling design allows use of an uncooled shaft seal. Additional or external cooling devices are not required 	<ul style="list-style-type: none"> → Impeller diameter is adjusted to the desired duty point → 60 Hz or ATEX version on request → Self-cooling design with double temperature barrier allows the use of an uncooled shaft seal and reduces heat loss 	<ul style="list-style-type: none"> → Long service life → Sturdy construction → Easy operation → Flexible use
Technical data	<ul style="list-style-type: none"> → Max. permitted fluid temperature → NESD: 120 °C ... 207 °C; NESE: 0 °C ... 120 °C (40 bar), 120 °C ... 200 °C (35 bar), 200 °C ... 230 °C (32 bar) → Pressure side-ϕ: DN 32 – 125 → Max. operating pressure → NESD: PN 25; NESE: PN 40 	<ul style="list-style-type: none"> → Permitted temperature range: 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 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operation mode: S1 → Fluid temperature: max. 35 °C
Equipment/function	<ul style="list-style-type: none"> → Dimensions and hydraulic output as per EN 22858 → Hydraulics in spheroidal cast iron EN-GS400 (MG version) → Flange according to EN 1092-1 → With or without spacer coupling → 2 or 4-pole IEC standard motor → Baseplate: steel or cast iron → Supplied as complete unit with pump, coupling, coupling guard, motor and baseplate or without motor or pump only, with free shaft end 	<ul style="list-style-type: none"> → Dimensions and hydraulic output as per EN 733 → Standard mechanical seal corresponding to the heat-carrier fluid → Version with or without spacer coupling → 2 or 4-pole IEC standard motor → Supplied as a complete unit with pump, coupling, coupling guard, motor and baseplate or without motor or pump only, with free shaft end 	<ul style="list-style-type: none"> → Self-priming

Submersible sewage pumps



Series	Wilo-EMU KPR
Field of application	Raw water intake / Dewatering and flood control / Wastewater treatment
Duty chart	
Construction	Axial submersible pump for use in pipe chambers
Application	Pumping of → Sewage without faeces → Wastewater → Process water
Volume flow Q_{max}	4,360 m ³ /h
Delivery head H_{max}	8 m
Special features	→ Installation directly in the pressure pipe → Angle of propeller blades adjustable → Process security thanks to extensive monitoring devices → Customised versions are possible
Technical data	→ Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C
Equipment/function	→ Heavy-duty version made of cast iron

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Wilo offers tailored products and systems that make life easier and more comfortable in a variety of ways. As a full-line provider for hot and cold water applications, Wilo is perfectly equipped to meet diverse customer requirements – with solutions that ensure maximum reliability, flexibility and connectivity.

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PRESSURE DRAINAGE SYSTEMS WITH NEXOS INTELLIGENCE.

SMART NETWORKING FOR THE POLISH COMMUNITY OF TCZÓW.



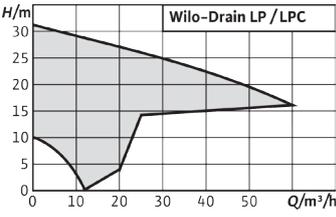
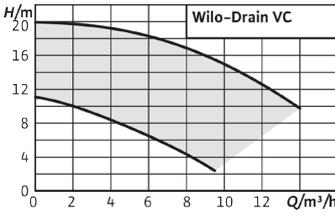
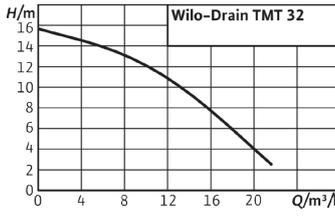


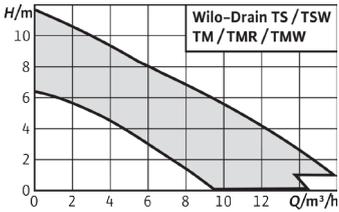
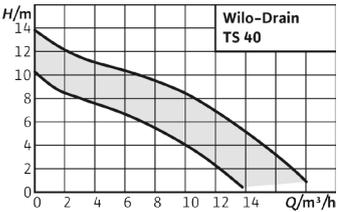
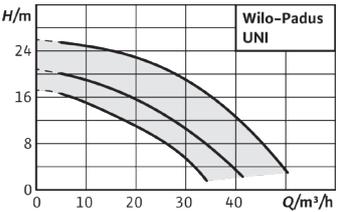
Using digital technologies efficiently

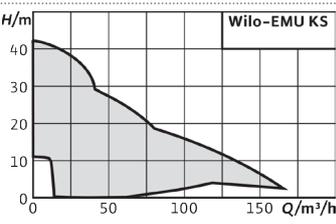
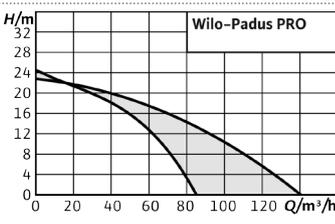
The consistent use of the latest digital technologies and the comprehensive networking of the supply and disposal systems are the key to greater sustainability and efficiency. At the same time, the challenges facing our water systems are increasing: Pumping stations that are in daily use are subject to high loads. High solids content, abrasive or fibrous materials in the water can cause clogging. The intelligent networking of pumps and pump systems is becoming ever more relevant.

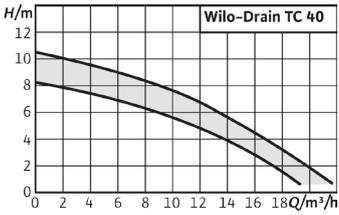
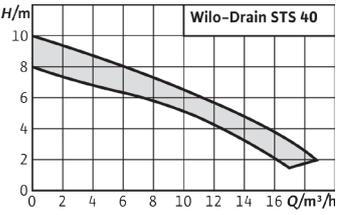
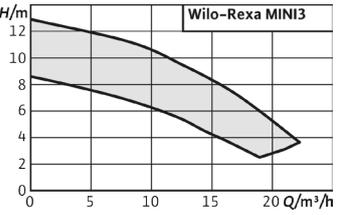
More efficiency and reliability through Nexos Intelligence

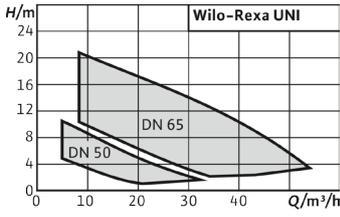
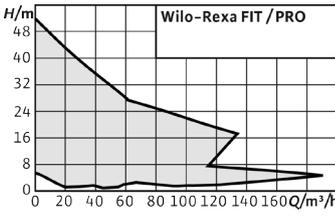
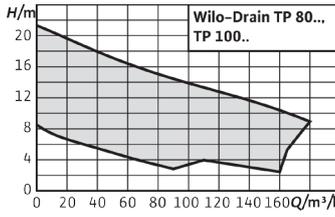
This is also highlighted by the small community of Tczów in Poland. Wilo installed a pressure drainage system here ten years ago. Only once it was in use did it become obvious that one pipe was particularly susceptible to the build-up of deposits or even clogging due to irregular flow rates – which the operator had to rectify at high cost. For this reason, Tczów became the first community to test the pressure drainage system with Nexos Intelligence. Using a piece of software, 185 of the 750 local pumping stations have been digitally connected in an intelligent network. The use of this new control system facilitates a distribution of the peak inflows on days when the system is under heavy load, such as on public holidays. At times when the system is not subject to such heavy loading, the pressure drainage system with Nexos Intelligence ensures that the minimum flow rate of 0.7 m/s is also achieved in the collector pipes to avoid the risk of clogging due to the build-up of deposits. Faults that occur can be detected automatically using the fault patterns and thus the reason for the problem can be identified. This process reduces the response time of the community's maintenance personnel and, as a result, lowers maintenance costs. Smart networking also delivers benefits such as an energy saving of up to 30 % and means that the system can provide daily, monthly or annual statistics for the whole system.

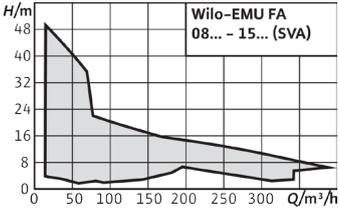
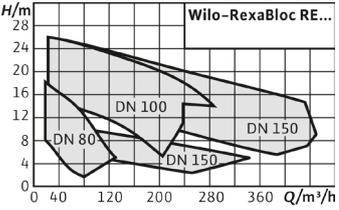
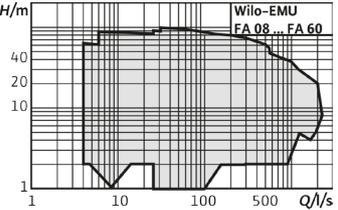
	Self-priming drainage pumps	Pedestal pumps	Submersible drainage pumps
			
Series	Wilco-Drain LP Wilco-Drain LPC	Wilco-Drain VC	Wilco-Drain TMT
Field of application	Dewatering and flood control / Industrial Process / Irrigation	Dewatering and flood control	Dewatering and flood control
Duty chart			
Construction	Non-submersible self-priming drainage pump	Non-submersible pedestal pump with standard motor	Submersible drainage pump
Application	Pumping of → Wastewater → Process water	Pumping of → Wastewater → Industrial wastewater	Pumping of → Wastewater → Industrial wastewater
Volume flow Q_{max}	60 m ³ /h	14 m ³ /h	22 m ³ /h
Delivery head H_{max}	31 m	20 m	15.5 m
Special features	→ Long service life → Sturdy construction → Easy operation → Flexible use	→ For fluids up to 95 °C → Long service life → Easy operation thanks to attached float switch → Long standstill times possible → Integrated motor protection with thermal relay	→ For fluids up to 95 °C → Sealed cable inlet
Technical data	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operation mode: S1 → Fluid temperature: max. 35 °C	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operation mode: S1 → Fluid temperature: max. 95 °C	→ Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Max. immersion depth: 7 m → Fluid temperature: max. 95 °C
Equipment/function	→ Self-priming	→ Attached float switch	→ Housing and impeller made of grey cast iron → Thermal motor monitoring

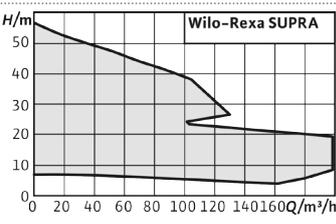
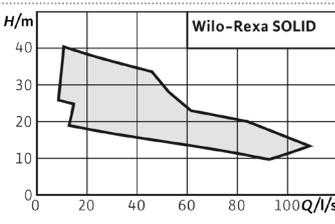
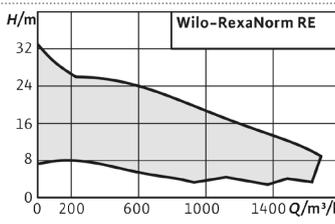
	Submersible drainage pumps	Submersible drainage pumps	Submersible drainage pumps
			 Series modification
Series	Wilco-Drain TM/TMW/TMR 32 Wilco-Drain TS/TSW 32	Wilco-Drain TS 40	Wilco-Padus UNI
Field of application	Dewatering and flood control /Waste-water collection and transport	Dewatering and flood control /Waste-water collection and transport	Dewatering and flood control
Duty chart			
Construction	Submersible drainage pump	Submersible drainage pump	Submersible drainage pump
Application	Pumping of → Sewage without faeces and long-fibre components → Wastewater	Pumping of → Sewage without faeces and long-fibre components → Wastewater	Pumping of → Sewage without faeces → Wastewater → Aggressive fluids (pH >3.5)
Volume flow Q_{max}	16 m ³ /h	18 m ³ /h	50 m ³ /h
Delivery head H_{max}	12 m	14 m	26 m
Special features	→ TMW, TSW with turbulator for → constantly clean pump chamber → No generation of fluid-related odours → Easy installation → High operational reliability → Easy operation	→ Low weight → Sealing chamber → Easy operation thanks to attached float switch and plug (A version)	→ Reliability, thanks to corrosion-free hydraulics for various fluids → Easy installation due to its low weight, integrated capacitor and threaded flange → Quick maintenance facilitated by direct access to the sealing chamber and pump housing → Long maintenance intervals thanks to the double mechanical seal and large-volume sealing chamber
Technical data	→ Mains connection: 1~230 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Max. immersion depth: TM/TMW/TMR = 1 m, TS/TSW = 7 m → Fluid temperature: max. 35 °C, for short periods up to 3 min. max. 90 °C	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Max. immersion depth: 5 m → Fluid temperature: max. 35 °C	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 10 % → Max. immersion depth: 7 m → Fluid temperature: max. 40 °C
Equipment/function	→ Motor monitoring via temperature → Sheath flow cooling → Hose connection → Turbulator (TMW, TSW) → Float switch (depending on type)	→ Ready-to-plug versions also with float switch → Thermal motor monitoring → Integrated non-return valve → Hose connection	→ single-phase variant with internal capacitor → A-model with plug and float switch → VA-model with plug and vertical float switch → P-model with plug → Material version "B" for aggressive fluids, e.g. lake/sea water, condensate, distilled water → Thermal motor monitoring

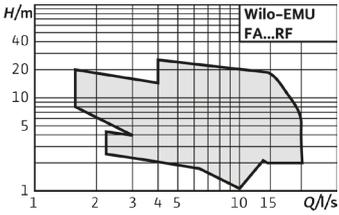
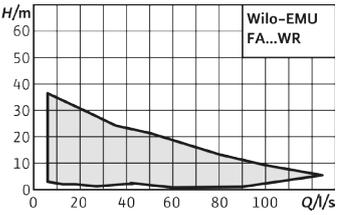
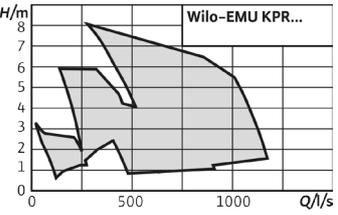
	Submersible drainage pumps	Submersible drainage pumps	Submersible sewage pumps
		 	
Series	Wilco-EMU KS	Wilco-Padus PRO	Wilco-Rexa CUT GI Wilco-Rexa CUT GE
Field of application	Dewatering and flood control	Dewatering and flood control	Wastewater collection and transport
Duty chart			
Construction	Submersible drainage pump	Submersible drainage pump	Submersible sewage pump with macerator
Application	Pumping of → Wastewater	Pumping of → Wastewater	Pumping of → Sewage containing faeces → Wastewater
Volume flow Q_{max}	165 m ³ /h	140 m ³ /h	21 m ³ /h
Delivery head H_{max}	42 m	24 m	41 m
Special features	<ul style="list-style-type: none"> → Long service life → Sturdy construction → Slurping operation possible → Suitable for continuous duty (S1) → Ready-to-plug 	<ul style="list-style-type: none"> → High reliability in abrasive media thanks to rubber-coated hydraulics and impeller made of hardened chrome steel → Easy installation thanks to low weight and flexible pressure connection (vertical/horizontal) → Active cooling for reliable continuous duty, particularly in slurping operation → Easy maintenance thanks to quick access to wearing parts 	<ul style="list-style-type: none"> → Low-weight version with stainless steel motor → Sturdy version in cast iron → Sealing with two mechanical seals → Longitudinal watertight cable inlet
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: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<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 → Max. immersion depth: 7 m (CUT GI) or 20 m (CUT GE) → Fluid temperature: max. 40 °C
Equipment/function	<ul style="list-style-type: none"> → Heavy-duty design → Slurping operation 	<ul style="list-style-type: none"> → Sheath flow cooling → Slurping operation 	<ul style="list-style-type: none"> → Internal or external macerator → Unimpeded flow to the impeller → Maceration of substances being conveyed → Sealing chamber with optional external monitoring → ATEX approval (Rexa CUT GE)

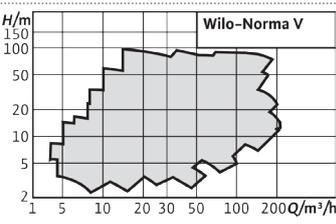
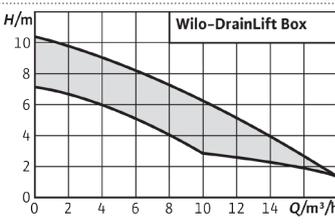
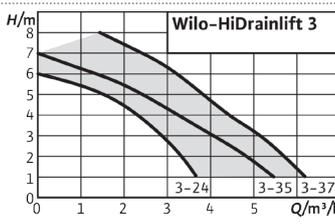
	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pumps
	 Discontinued line	 Discontinued line	 NEW
Series	Wilco-Drain TC 40	Wilco-Drain STS 40	Wilco-Rexa MINI3
Field of application	Dewatering and flood control /Waste-water collection and transport	Dewatering and flood control /Waste-water collection and transport	Dewatering and flood control
Duty chart			
Construction	Submersible sewage pump	Submersible sewage pump	Submersible sewage pump
Application	Pumping of → Sewage without faeces → Wastewater	Pumping of → Sewage without faeces → Wastewater	Pumping of → Sewage without faeces → Wastewater
Volume flow Q_{max}	22 m ³ /h	19 m ³ /h	23 m ³ /h
Delivery head H_{max}	10 m	10 m	13 m
Special features	<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 support foot for easy installation 	<ul style="list-style-type: none"> → Stainless steel surface-cooled motor → Attached float switch (A-model) enables easy operation → Integrated pump support foot for easy installation → No switchgear required for thermal fuse protection → Integrated thermal motor protection (1~/3~) and phase failure protection (3~) 	<ul style="list-style-type: none"> → Best efficiency and high operational reliability thanks to optimized hydraulics → Easy installation thanks to compact design with integrated condenser, light weight and threaded flange → Long maintenance intervals thanks to large sealing chamber and double sealing
Technical data	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 25 % → Max. immersion depth: 2 m → Fluid temperature: max. 40 °C 	<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 % → Max. immersion depth: 7 m → Fluid temperature: max. 35 °C 	<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 % → Max. immersion depth: 7 m → Fluid temperature: max. 40 °C
Equipment/function	<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 	<ul style="list-style-type: none"> → AC variant ready-to-plug and with internal capacitor → A-model including float switch → Thermal motor monitoring

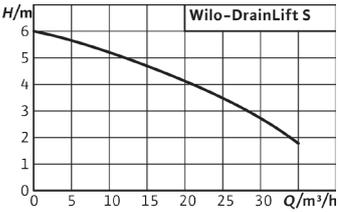
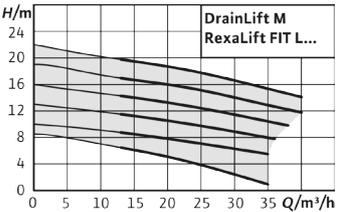
	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pumps
	 <p style="background-color: orange; color: white; padding: 2px; display: inline-block;">Series modification</p>		
Series	Wilo-Rexa UNI	Wilo-Rexa FIT Wilo-Rexa PRO	Wilo-Drain TP 80 Wilo-Drain TP 100
Field of application	Dewatering and flood control	Dewatering and flood control / Waste-water collection and transport / Waste-water treatment	Dewatering and flood control
Duty chart			
Construction	Submersible sewage pump	Submersible sewage pump	Submersible sewage pump
Application	Pumping of → Sewage containing faeces → Wastewater → Aggressive fluids (pH >3,5)	Pumping of → Sewage containing faeces → Wastewater	Pumping of → Sewage containing faeces → Wastewater → Process water
Volume flow Q_{max}	54 m ³ /h	186 m ³ /h	180 m ³ /h
Delivery head H_{max}	21 m	52 m	21 m
Special features	→ High reliability due to corrosion-free hydraulics for various fluids → Easy installation thanks to low weight of composite, integrated capacitor and integrated fixations in flanges → Larger inspection interval thanks to double sealing with large sealing chamber	→ Low-weight version with stainless steel motor or sturdy version in cast iron → Also with IE3 motor technology (according to IEC 60034-30) → Motors with S1 operation mode for dry installation available	→ Self-cooling motor for the use in wet well and dry well installations → Corrosion-resistant stainless steel motor housing in 1.4404 → Patented non-clogging hydraulics → Longitudinal watertight cable inlet → Low weight
Technical data	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 10 % → Max. immersion depth: 7 m → Fluid temperature: max. 40 °C	→ Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S3 → Max. immersion depth: 7 m (FIT) or 20 m (PRO) → Fluid temperature: max. 40 °C	→ Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C
Equipment/function	→ AC variant with internal capacitor → Material version "B" for aggressive fluids, e.g. lake/sea water, condensate, distilled water → A-model with plug and float switch → P-model with plug → Material version "B" for aggressive fluids, e.g. lake/sea water, condensate, distilled water → Thermal motor monitoring	→ Thermal motor monitoring → Motor chamber monitoring (Rexa PRO) → Sealing chamber with optional external monitoring → ATEX approval (Rexa PRO)	→ Thermal motor monitoring → Motor chamber monitoring → ATEX approval → Sheath flow cooling

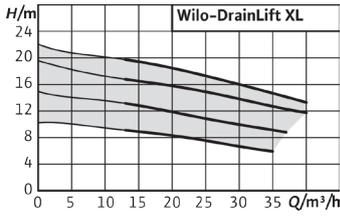
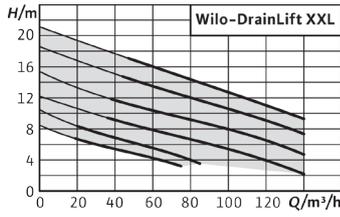
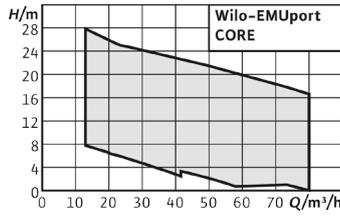
	Submersible sewage pumps	Sewage pumps	Submersible sewage pumps
			
Series	Wilo-EMU FA 08 to FA 15 (standard pumps)	Wilo-RexaBloc RE	Wilo-EMU FA 08 to FA 60
Field of application	Dewatering and flood control / Wastewater collection and transport / Wastewater treatment	Wastewater collection and transport / Wastewater treatment	Dewatering and flood control / Wastewater collection and transport / Wastewater treatment / Industrial Process
Duty chart			
Construction	Submersible sewage pump	Non submersible sewage pump in monobloc design	Submersible sewage pump
Application	<ul style="list-style-type: none"> → Pumping of → Sewage containing faeces → Wastewater 	<ul style="list-style-type: none"> → Pumping of → Sewage containing faeces → Wastewater 	<ul style="list-style-type: none"> → Pumping of → Untreated sewage → Sewage containing faeces → Wastewater → Process water
Volume flow Q_{max}	380 m ³ /h	445 m ³ /h	8,679 m ³ /h
Delivery head H_{max}	51 m	26 m	124 m
Special features	<ul style="list-style-type: none"> → Operationally reliable thanks to Vortex hydraulics and single-channel hydraulics with large, free ball passage → Process reliability thanks to optional monitoring for the sealing chamber 	<ul style="list-style-type: none"> → High reliability due to oil-filled sealing chamber and additional leakage chamber → Easy impeller replacement due to "back pull-out" design. This means the motor and the impeller can be removed without needing to dismantle the hydraulics → Closed bearing bracket design. This means that no oil needs to be drained during dismantling 	<ul style="list-style-type: none"> → Self-cooling motors for the use in wet well and dry well installation → Process security thanks to extensive monitoring devices → Enhanced corrosion protection with the optional Ceram coating for a longer lifetime → Special versions for abrasive and corrosive fluids → Customised versions are possible
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operating mode: S1 → Fluid temperature: max. 70 °C → Ambient temperature: max. 40 °C → Motor efficiency class: IE3, IE4 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: <ul style="list-style-type: none"> – S1 with self-cooling motor – S2 with surface-cooled motor → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C
Equipment/function	<ul style="list-style-type: none"> → Optional external sealing chamber monitoring 	<ul style="list-style-type: none"> → Optional external sealing chamber monitoring 	<ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Optional monitoring for <ul style="list-style-type: none"> – motor bearing temperature – motor winding temperature – tightness of motor, terminals and sealing chamber

	Submersible sewage pumps	Submersible sewage pumps	Sewage pumps
			
Series	Wilox-Rexa SUPRA	Wilox-Rexa SOLID	Wilox-RexaNorm RE
Field of application	Dewatering and flood control / Wastewater collection and transport / Wastewater treatment / Industrial Process	Dewatering and flood control / Wastewater collection and transport / Wastewater treatment / Industrial Process	Dewatering and flood control / Wastewater collection and transport / Wastewater treatment / Industrial Process
Duty chart			
Construction	Submersible sewage pump	Submersible sewage pump	Non submersible sewage pump with standard motor, fully mounted on baseplate
Application	<ul style="list-style-type: none"> → Pumping of → Untreated sewage → Sewage containing faeces → Wastewater → Process water 	<ul style="list-style-type: none"> → Pumping of → Untreated sewage → Sewage containing faeces → Wastewater → Process water 	<ul style="list-style-type: none"> → Pumping of → Untreated sewage → Sewage containing faeces → Wastewater → Process water
Volume flow Q_{max}	200 m ³ /h	426 m ³ /h	1,760 m ³ /h
Delivery head H_{max}	57 m	38 m	32 m
Special features	<ul style="list-style-type: none"> → Self-cooling motors for the use in wet well and dry well installation → Process security thanks to extensive monitoring devices → Enhanced corrosion protection with the optional Ceram coating for a longer lifetime → Customised versions are possible 	<ul style="list-style-type: none"> → Highest operational reliability and reduced service costs, especially for pumping untreated sewage thanks to the self-cleaning characteristics → Enhanced corrosion protection with the optional Ceram coating for a longer lifetime → Optional Digital Data Interface (DDI) with integrated vibration monitor, data logger and web server for convenient system monitoring → Integration of Nexos Intelligence 	<ul style="list-style-type: none"> → Easy impeller replacement due to "back pull-out" design and spacer coupling as standard. Removal of the impeller without dismantling the hydraulics from the pipeline and the motor from the baseplate → Shut "back pull-out" unit: Dismantling without draining the oil in the sealing chamber
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: <ul style="list-style-type: none"> – S1 with self-cooling motor – S2 with surface-cooled motor → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: <ul style="list-style-type: none"> – S1 with self-cooling motor – S2 with surface-cooled motor → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operating mode: S1 → Fluid temperature: max. 70 °C → Ambient temperature: max. 40 °C → Motor efficiency class: IE3, IE4
Equipment/function	<ul style="list-style-type: none"> → Heavy-duty version made of cast iron → Optional monitoring for <ul style="list-style-type: none"> – motor bearing temperature – motor winding temperature – tightness of motor, terminals and sealing chamber 	<ul style="list-style-type: none"> Optional Nexos Intelligence: <ul style="list-style-type: none"> → Reduced downtime and service call-outs thanks to automatic detection and removal of clogging → Lower energy costs due to the integrated automatic control for the optimal operating mode of the specific system → Convenient control and connectivity with the local network via the integrated web server and Ethernet interface with established protocols in the pump → Increased operational reliability in the event of a failure thanks to the integrated pump control in multiple execution 	<ul style="list-style-type: none"> → Optional thermal motor monitoring → Optional external sealing chamber monitoring

	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pumps
			
Series	Wilo-EMU FA...RF	Wilo-EMU FA...WR	Wilo-EMU KPR
Field of application	Wastewater collection and transport / Industrial Process	Wastewater collection and transport / Wastewater treatment	Raw water intake / Dewatering and flood control / Wastewater treatment
Duty chart			
Construction	Submersible sewage pump made of cast stainless steel	Submersible sewage pump with mechanical stirring apparatus	Axial submersible pump for use in pipe chambers
Application	<ul style="list-style-type: none"> → Pumping of → Highly abrasive sewage without long-fibre components → Sewage containing faeces 	<ul style="list-style-type: none"> → Pumping of → Highly abrasive sewage without long-fibre components → Sewage containing faeces 	<ul style="list-style-type: none"> → Pumping of → Sewage without faeces → Wastewater → Process water
Volume flow Q_{max}	72 m ³ /h	450 m ³ /h	4,360 m ³ /h
Delivery head H_{max}	27 m	36 m	8 m
Special features	<ul style="list-style-type: none"> → Sturdy version completely in stainless steel casting 1.4581 for the use in corrosive fluids → Longitudinal watertight cable inlet 	<ul style="list-style-type: none"> → Mechanical mixing device made of Abrasit material to avoid deposits in the pump chamber → Longitudinal watertight cable inlet → Customised versions are possible 	<ul style="list-style-type: none"> → Installation directly in the pressure pipe → Angle of propeller blades adjustable → Process security thanks to extensive monitoring devices → Customised versions are possible
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Non-immersed operating mode: S2 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C
Equipment/function	<ul style="list-style-type: none"> → Heavy-duty version made of cast stainless steel → Optional external sealing chamber monitoring 	<ul style="list-style-type: none"> → Mechanical stirring apparatus is fastened directly to the impeller → Mixer head made of Abrasit (chilled cast iron) → Optional external sealing chamber monitoring 	<ul style="list-style-type: none"> → Heavy-duty version made of cast iron

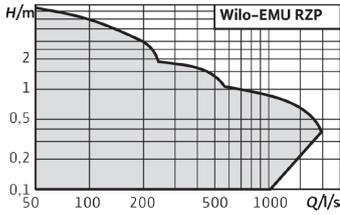
	Pedestal pumps	Sewage lifting unit	Sewage lifting unit
			
Series	Norma V	Wilo-DrainLift Box... D Wilo-DrainLift Box... DS	Wilo-HiDrainlift 3
Field of application	Industrial Process	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Construction	Non-submersible pedestal pump with standard motor	Sewage lifting unit for concealed floor installation	Sewage lifting unit
Application	Pumping of → Wastewater → Industrial wastewater	Pumping of sewage without faeces that cannot be piped to the sewer system through the use of natural falls.	Pumping of sewage without faeces that cannot be piped to the sewer system through the use of natural falls.
Volume flow Q_{max}	200 m ³ /h	18 m ³ /h	6 m ³ /h
Delivery head H_{max}	100 m	10.5 m	8 m
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"> → Easy to install due to integrated pump and non-return valve → Large tank volume → Easy maintenance → Pumps with pressure pipe removable → Stainless steel tile frame with trap 	<ul style="list-style-type: none"> → Compact design for the installation into a wet cell or under a shower tray → Low-noise operation and integrated active carbon filter for a high user comfort → Reliable performance and low power consumption for an efficient wastewater disposal → Easy installation with flexible connection possibilities → Ready for connection
Technical data	<ul style="list-style-type: none"> → Fluid temperature: max 120 °C → Pressure connection: DN 32 to DN 100 → Max. operating pressure: 16 bar → Max. viscosity: 150 cSt 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Operation mode: S3 → Fluid temperature: max. 35/40 °C → Pressure port: Ø40 mm → Gross volume: 113 l → Switching volume: 22...31 l 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Operation mode: S3 → Fluid temperature: 35 °C, for short periods (5 min) up to 60/75 °C → Pressure port: Ø32 mm → Tank volume: 3.9 ... 16 l → Switching Volume: 0.7 ... 2 l
Equipment/function	<ul style="list-style-type: none"> → Pressure connection above base plate in PN 10/16/25 → Different basic versions: <ul style="list-style-type: none"> – VCS: adjustable baseplate/fixed coupling – VEM: cast iron support/fixed coupling – VTM: bearing block/semi-elastic coupling → Options: <ul style="list-style-type: none"> – Explosion-proof float switch – External lubrication of bearing or lubrication provided by fluid (default) – Pressure connection below base plate 	<ul style="list-style-type: none"> → Single and double-pump system → Lifting unit with ready-mounted pump, level control, pressure pipe and integrated non-return valve → Ready-to-plug system (single-phase version) → Thermal motor monitoring → DS version: Double pump system with micro-processor controlled switchgear 	<ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with pneumatic pressure transducer → Integrated non-return valves → Active carbon filter

	Sewage lifting unit	Sewage lifting unit	Sewage lifting unit
			
Series	Wiloo-HiSewlift 3	Wiloo-DrainLift S	Wiloo-DrainLift M Wiloo-RexaLift FIT L
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Construction	Sewage lifting unit	Sewage lifting unit Single-pump system	Sewage lifting unit Single and double-pump system
Application	Pumping of sewage containing faeces that cannot be piped to the sewer system through the use of natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.
Volume flow Q_{max}	5 m ³ /h	35 m ³ /h	40 m ³ /h
Delivery head H_{max}	8 m	6 m	22 m
Special features	<ul style="list-style-type: none"> → Particularly narrow design for an easy front-wall installation → Low-noise operation and integrated active carbon filter for a high user comfort → Reliable performance and low power consumption for an efficient sewage disposal → Easy installation with flexible connection possibilities → Ready for connection 	<ul style="list-style-type: none"> → Space-saving installation → Installation-friendly thanks to low weight and large scope of delivery incl. non-return valve → Flexible thanks to freely selectable inlets → Operational reliability thanks to integrated thermal motor protection and mains-independent alarm for SSM and high water 	<ul style="list-style-type: none"> → Installation-friendly thanks to low weight → Integrated non-return valve → Flexible thanks to freely selectable inlets → Operationally reliable thanks to integrated thermal motor protection and mains-independent alarm for SSM and high water
Technical data	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz → Operation mode: S3 → Fluid temperature: max. 35 °C → Pressure port: Ø32 mm → Gross volume: 14.4 l; 17.4 l → Switching Volume: 1 l 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operation mode: S3 → Fluid temperature: max. 40 °C → Pressure port: DN 80 → Gross volume: 45 l → Switching volume: 21 l 	<ul style="list-style-type: none"> → Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz → Operation mode: S3 → Fluid temperature: max. 40 °C → Pressure port: DN 80 → Gross volume: 62 ... 140 l → Switching volume: 24 ... 50 l
Equipment/function	<ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with pneumatic pressure transducer → Integrated non-return valves → Active carbon filter 	<ul style="list-style-type: none"> → Ready-to-plug → Thermal motor monitoring → Level control with float switch → Switchgear with mains-independent alarm and potential-free contact → Non-return valve → Inlet seal → Keyhole saw for inlet borehole → Hose connection for venting → Kit for pressure pipe connection → Installation material 	<ul style="list-style-type: none"> → Thermal motor monitoring → Level control with float switch → Switchgear with mains-independent alarm and potential-free contact → Non-return valve → Inlet seal → Keyhole saw for inlet borehole → Hose connection for venting → Kit for pressure pipe connection → Installation material

	Sewage lifting unit	Sewage lifting unit	Sewage lifting unit
			
Series	Wilco-DrainLift XL	Wilco-DrainLift XXL	Wilco-EMUport CORE Wilco-EMUport FTS
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Construction	Sewage lifting unit Double-pump system	Sewage lifting unit Double-pump system	Sewage lifting unit with solid separation for over-ground and underground installation (in a chamber)
Application	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.
Volume flow Q_{max}	40 m ³ /h	140 m ³ /h	80 m ³ /h
Delivery head H_{max}	22 m	21 m	28 m
Special features	<ul style="list-style-type: none"> → Flexible thanks to height-adjustable and swivel-mounted inlet connection → Easy operation due to menu-guided switchgear → Integrated non-return valve → Operationally reliable due to high switching volume and reliable level detection → Continuous duty thanks to the use of self-cooling motors 	<ul style="list-style-type: none"> → Flexible use thanks to one or two tanks → Optimum tank drainage with deep suction function → Operationally reliable thanks to large performance range and a reliable level detection → Continuous duty thanks to the use of self-cooling motors 	<ul style="list-style-type: none"> → Long service life and corrosion resistance thanks to PE/PUR material → Maintenance-friendly as all parts are accessible from outside → High operational reliability thanks to a pre-filtering of solid matter, the pumps deliver only the cleaned sewage → Retrofit system for the economic reconstruction of old pump stations
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operating mode: S1 → Fluid temperature: max. 40 °C → Pressure connection: DN 80 → Gross volume: 380 l → Switching volume: 260 l 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operating mode: S1 → Fluid temperature: max. 40 °C → Pressure port: DN 80, DN 100 → Gross volume: 400/800 l → Switching volume: 305 ... 630 l 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Operation mode: S1 → Fluid temperature: max. 40 °C → Pressure port: DN 80, DN 100 → Gross volume: 440 l, 1200 l → Switching volume: 295 l, 900 l
Equipment/function	<ul style="list-style-type: none"> → Thermal motor monitoring → Level control with level sensor → Menu-guided switchgear with potential-free contact → Inlet seal DN 150 → Keyhole saw for inlet seal → Non-return valve → Hose connection for venting and diaphragm hand pump → Kit for pressure pipe connection → Installation material 	<ul style="list-style-type: none"> → Thermal motor monitoring and leakage detection → Level control with level sensor → Menu-guided switchgear with potential-free contact → Hose connection for venting diaphragm hand pump → Kit for pressure pipe connection → Installation material 	<ul style="list-style-type: none"> → Sewage lifting unit with solid separation system → Collection reservoir → 2x solids separation reservoirs → 2x sewage pumps → Complete pipework including inlet and pressure connection and non-return valve

	Pump chamber	Pump chamber	Pump chamber
			
Series	Wilco-DrainLift WS 40/50	Wilco-Port 600 Wilco-Port 800	Wilco-DrainLift WS 1100
Field of application	Wastewater collection and transport	Wastewater collection and transport	Wastewater collection and transport
Duty chart			
Construction	Pump chamber as concealed pumping station or floor-mounted lifting unit	Pump chamber with synthetic tank, as single or double-pump system	Pump chamber with synthetic tank, as single- or double-pump system
Application	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.	Pumping of sewage containing faeces that cannot be returned to the sewer system using natural falls.
Volume flow Q_{max}			
Delivery head H_{max}			
Special features	<ul style="list-style-type: none"> → Pressure-tight pump chamber for floor-mounted or concealed floor installation → Flexible thanks to freely selectable inlets → Large tank volume → WS ... Basic: including pipework, level control, switchgear and pump(s) 	<ul style="list-style-type: none"> → Universal use thanks to chamber extension up to 2.75 m → Max. operational reliability: anti-buoyant without weights for ground water levels up to the surface of the ground → Covers up to load class D 400 → Easy maintenance thanks to surface coupling → Long service life thanks to chamber made of corrosion-free polyethylene 	<ul style="list-style-type: none"> → Flexible installation → Anti-buoyant → High stability
Technical data	<ul style="list-style-type: none"> → Pressure port: Ø50/563 mm → Inlet connection: DN 100, DN 150 → Discharge port pump: R 1½, R 2 → Gross volume: 255/400 l 	<ul style="list-style-type: none"> → Pressure port: R1¼, R1½ → Inlet connection: DN 100, DN 150, DN 200 → Discharge port pump: R1¼, R1½ → Gross volume: 340 ... 900 l 	<ul style="list-style-type: none"> → Pressure port: G2 → Inlet connection: DN 150 → Discharge port: Rp1½, Rp2, Rp2½, DN 80 → Gross volume: 1215 l
Equipment/function	Wilco sewage pumps which can be used: <ul style="list-style-type: none"> → Rexa UNI → Rexa CUT 	Wilco sewage pumps which can be used: <ul style="list-style-type: none"> → Drain TMW 32 → Drain TS 40 → Drain TC 40 → Drain STS 40 → Drain MTC → Rexa CUT 	Wilco sewage pumps which can be used: <ul style="list-style-type: none"> → Drain TS 40 → Rexa UNI → Drain TP 80 → Rexa FIT/PRO → Drain MTC → Rexa CUT

	Vertical mixer	Submersible mixer	Submersible mixer
			
			
Series	Wilo-Vardo WEEDLESS	Wilo-Flumen OPTI-TR Wilo-Flumen EXCEL-TRE	Wilo-EMU TR/TRE 50-2 to TR 120-1
Field of application	Wastewater treatment	Wastewater treatment	Wastewater treatment
Duty chart			
Construction	Vertical mixer with standard gear motor	Direct driven submersible mixer	Submersible mixer with single-stage planetary gear
Application	Energetically optimised mixing and circulation	Swirling of deposits and solids; destruction of floating sludge layers	Flow generation, suspension of solids, homogenisation and prevention of floating sludge layers
Volume flow Q_{max}	Max. thrust: 6000 N	Max. thrust: 200 – 920 N	Max. thrust: 160 – 6620 N
Delivery head H_{max}	Max. circulation capacity: 7.5 m ³ /s		
Special features	<ul style="list-style-type: none"> → Optimum agitation in basin with square or rectangular floor plan → Operational reliability owing to wear-resistant propeller → Easy installation for existing systems → Floating version for basins with alternating water levels 	<ul style="list-style-type: none"> → Low clogging rate and reliable operation thanks to optimised hydraulics → Low-wearing, due to the use of stainless steel precision-cast propellers with the lowest cavitation tendency → A wide range of possible uses in diverse applications, even at high-interval running times → Reduction of the energy and operating costs due to the standard use of IE3 motors (EXCEL-TRE) for the best possible thrust coefficient 	<ul style="list-style-type: none"> → Secures your processes. The large planetary gear ensures that the mixing forces are absorbed efficiently. → Efficient energy usage. The innovative blade geometry and energy-efficient IE3 motors ensures the best possible specific thrust coefficient. → Works reliably. Thanks to entwining-free operation with backward-curved incoming flow edge.
Technical data	<ul style="list-style-type: none"> → Propeller diameter: 2.50 m ... 1.50 m → Diameter of mixer shaft: 70 ... 114 mm → Shaft length: from 2 m → Fluid temperature: 3 ... 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C
Equipment/function	<ul style="list-style-type: none"> Version with → Float for floating installation → Two propeller platforms → Ex rating → Integrated frequency converter 	<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 walls → Flexible installation via lowering device → Can be swivelled horizontally when installed with a lowering device → Installation with stand allows free placement in basin

	Submersible mixer	Recirculation pump	Treatment process
			
Series	Wilo-EMU TR/TRE 212 to TR/TRE 326-3	Wilo-EMU RZP 20 to RZP 80-2	Wilo-Sevio ACT
Field of application	Wastewater treatment	Wastewater treatment / Leisure	Wastewater treatment
Duty chart			
Construction	Submersible mixer with two-stage planetary gear	Submersible mixers with housing unit, directly driven or with single-stage planetary gear	Solids diffuser
Application	Energetically optimised mixing and circulation of activated sludge; generation of flow rates	<ul style="list-style-type: none"> → Pumping of large volume flows of wastewater and sewage → Flow generation in water channels 	Gentle process for mixing all kinds of biomass carrier particles in the pumped fluid
Volume flow Q_{max}	Max. thrust: 390 – 4310 N	6,800 m ³ /h	Circulation capacity: 3,300 – 4,000 m ³ /h
Delivery head H_{max}		1.1 m	
Special features	<ul style="list-style-type: none"> → Efficient energy usage. The innovative blade geometry and energy-efficient IE3/IE4 motors ensure the best possible specific thrust coefficient. → Consistently reliable. The low-wearing GFK/PA6 propeller is durable and scores with its self-cleaning effect. → Smooth running thanks to the balanced propeller load, even in high thrust ranges and when incoming flow conditions are unfavourable. 	<ul style="list-style-type: none"> → Vertical or in-line installation possible → Self-cleaning propeller to avoid clogging → Propeller in steel or PUR 	<ul style="list-style-type: none"> → Gentle input of biomass carriers into the fluid → Efficient due to increased volume of penetration for an optimised treatment process → Reduced energy costs with improved treatment performance → Also available with energy-efficient IE3 motor technology → Retrofittable in existing systems
Technical data	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Mains connection: 3~400 V, 50 Hz → Immersed operating mode: S1 → Max. immersion depth: 20 m → Fluid temperature: max. 40 °C 	<ul style="list-style-type: none"> → Max. basin depth: 3 ... 8 m → Layer thickness of biomass particles: 1.6 ... 5.5 m → Percent by volume of biomass particles: 40 ... 70 % → Max. fluid temperature: 40 °C
Equipment/function	<ul style="list-style-type: none"> → Installation with stand allows free placement in basin → Flexible installation 	<ul style="list-style-type: none"> → Stationary installation directly on the pipe work → Flexible installation via lowering device → Vertical or in-line installation possible 	<ul style="list-style-type: none"> → Height-adjustable suction pipe due to lowering device → Suction pipe with telescopic extension

	Aeration	Decanter
		
Series	Wilo-Sevio AIR Wilo-Sevio ELASTOX	Wilo-Savus OPTI-DECA
Field of application	Wastewater treatment	Wastewater treatment
Duty chart		
Construction	Aeration system consisting of pipe, plate, stripe or disc diffuser and pipe system to distribute the pressure	A positive control discharge unit that is decoupled from the fluid
Application	For fine bubble aeration of various fluids such as wastewater and sewage or sludge	Unit to effectively discharge clear water in SBR systems
Volume flow Q_{max}		
Delivery head H_{max}		
Special features	<ul style="list-style-type: none"> → High system efficiency with a high oxygen utilisation at a low pressure loss thanks to optimal membrane perforation → High operational reliability thanks to non-clogging, automatically closing membrane perforation → Long service life in municipal and industrial applications thanks to different membrane materials 	<ul style="list-style-type: none"> → Effective and safe clear water removal to ensure the sewage is cleaned to a high quality → High process reliability owing to permanently installed system which is decoupled from the fluid → No contamination thanks to process-related cycling of the decanting process → Individually system-tailored design
Technical data	<ul style="list-style-type: none"> → Temperature, air intake: max. 80 °C → Temperature, fluid: 5 ... 35 °C 	<ul style="list-style-type: none"> → Drainage quantity: 200 ... 1000 m³/h → Discharge pipe: DN 200 ... DN 300 → Drain pipe: DN 200 ... DN 400 Drainage quantities greater than 1000 m³/h upon request.
Equipment/function	<ul style="list-style-type: none"> → Downspout → Main distribution line → Aerator pipe → End distribution line → Diffuser → Fixation elements 	<ul style="list-style-type: none"> → Discharge and drainage unit, joint, wall bracket and supports → Electric winch



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- System consulting





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