

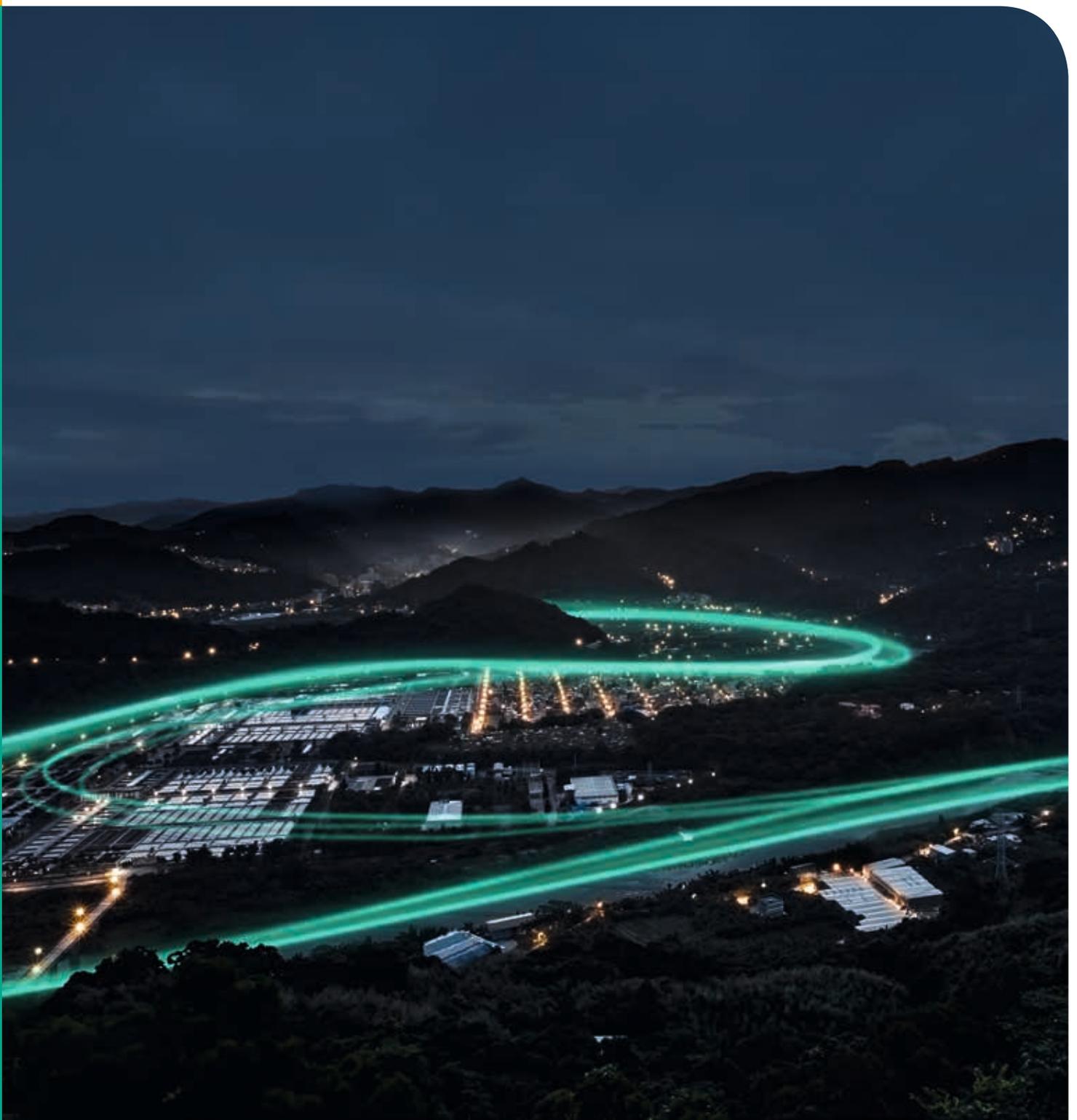
Pioneering for You

wilo

IFAT 2018

Innovations for the future.

Our solutions for Water Management.



WILO BRINGS THE FUTURE.

PIONEERING SOLUTIONS FOR THE WORLD OF TOMORROW.

Our promise to you.

Wilo is a premium supplier of pumps and pump systems for building services, water management and industrial applications. With over 7,600 employees across more than 60 countries, Wilo develops more than just products, systems and services that assist you effectively 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.

We are well-acquainted with the issues that will shape our future and we are developing integrated 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. This means that efficiency, networking and reliability will gain even greater significance in the future.

We aspire to offer you sustainable, user-friendly and high-performance water management solutions 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, integrated solutions you can rely on at all times.



More is more: in-depth digital content.

Our added bonus for you: each product photo in this brochure can be scanned using the AR scanner tool that comes with the Wilo-Assistant app. Simply scan the product photo with your smartphone camera – and find out more about our products and solutions.

1



Download the Wilo-Assistant App.

2



Launch the Wilo-Assistant app, tap on the AR logo and scan the content with your smartphone camera.



INTELLIGENT NETWORKING IN THE WORLD OF TOMORROW.

PIONEERING DIGITAL SOLUTIONS FOR WATER MANAGEMENT.

In developing individual solutions, Wilo also seizes the opportunities offered by the latest technological developments and digitalisation. We know that consultants, operators and system manufacturers are up against new challenges all the time: increasing water consumption at increasing solid matter content in the sewage, high energy costs and permanent operational reliability, to name but a few.

Seizing the opportunities offered by digitalisation.

Modern digital technologies offer great potential: digital technology makes it possible to collect relevant data and carry out targeted real-time analyses that are used as the basis for decisions and measures as well as automated decisions. Wilo as the industry's digital pioneer makes this intelligent networking of a water infrastructure's water cycle, users and components makes processes more efficient, flexible and, in particular, sustainable.

We aspire to create the best solution.

Connectivity, operational reliability and maximum efficiency enable operators to increase the efficiency of their systems and achieve valuable savings in costs and resources. Our innovative, intelligent, networked solutions mean you are well prepared for the water management of tomorrow. Our aim is to make your daily work easier.

Raw water intake

Resource-saving solutions for optimum water pumping.

Climate change, urbanisation and globalisation and the ensuing scarcity of important resources such as water and energy, call for a new approach and innovative solutions to ensure fast and uninterrupted supply for the world's growing population.

Wilo-Actun OPTI-MS: autonomous water supply using solar power.

Ensuring a reliable water supply in arid and remote regions not connected to the power grid is a challenge. The new Wilo-Actun OPTI-MS is the reliable solution for an autonomous water supply that runs on solar power.

Your advantages:

- Autonomous water supply thanks to the use of solar power
- Easy installation using the integrated frequency converter
- Optimised water output thanks to high motor efficiencies and dynamic MPPT
- Long service life and reliability thanks to high-quality materials and an encapsulated motor design
- Operational reliability thanks to integrated protective devices
- Easy remote access to parameters and settings via the Solar Connect tool in the Wilo-Assistant app



Wilo-Actun OPTI-MS Wilo-Actun ZETOS-K10

Wilo-Actun ZETOS-K10: efficient raw water intake thanks to outstanding system efficiency.

Changing demand for water and fluctuating ground water levels represent significant challenges for submersible pumps that usually have only one duty point at which they perform best. The new Wilo-Actun ZETOS-K10 is a cost-efficient and energy-saving solution that adapts seamlessly to the changing duty points and ensures the sustainable use of precious resources.

Your advantages:

- Higher overall efficiency due to outstanding hydraulic efficiency and permanent magnet motor
- High reliability thanks to particularly corrosion-resistant hydraulics made completely of 1.4408 grade stainless steel investment casting (AISI 316)
- High wear resistance up to a max. sand content of 150 g/m³
- ACS-approved for drinking water applications
- Straightforward maintenance, easy installation and dismantling
- Link to the WiloCare: transmission of operational data to Wilo for analysis and generation of status reports

Water supply and pressure boosting

Streamlined solutions for a reliable supply.

The global water shortage has made water one of the most valuable resources in the world. Therefore, the uninterrupted supply of clean water for drinking, for agriculture and for industry is one of the big challenges of the future. The custom solutions offered by Wilo combine operational reliability with outstanding efficiency.

Wilo-CronoBloc-BL: the reliable glanded pump with drinking water approval and outstanding efficiency.

Ensuring a reliable supply of drinking water is one of society's most pressing tasks and the reason why regulation is becoming ever more stringent. Increasing demands are therefore being placed on the materials used to manufacture these systems. The Wilo-CronoBloc-BL has ACS approval for use in drinking water supply systems and combines the latest pump hydraulics and highest hydraulic efficiencies.

Your advantages:

- Energy-savings thanks to state-of-the-art pump hydraulics and IE3 motors
- Suitable for drinking water supply (KTW, ACS)
- Ideal for a wide range of applications, thanks to a variety of available impeller materials, motor options and mechanical seals
- Easy installation due to standard pump support feet and optional supporting blocks
- Easy maintenance and user-friendly design with "back pull-out" function and cartridge mechanical seal for large pump types



Wilo-CronoBloc-BL

The Wilo-SiBoost Smart Helix EXCEL: the smart pressure-boosting system that impresses with its low overall energy consumption.

In densely populated rural areas, the transportation of water is often associated with leakage risks. This results in high operating costs. Our solution: the Wilo-SiBoost Smart Helix EXCEL significantly reduces overall power consumption thanks to its top-quality components (hydraulics and motors) and a switchgear with optional communication interfaces for leakage detection.

Your advantages:

- Heavy-duty system featuring stainless steel high-pressure multistage centrifugal pump from the Helix EXCEL series with integrated frequency converter from 25 Hz to a maximum of 60 Hz
- High-efficiency EC motor (energy efficiency class IE5 in accordance with IEC 60034-30-2)
- Pressure-loss optimised overall system with highly efficient pump hydraulics
- Optimum load adjustment of the system to the overall system through the extra control mode $\Delta p-v$
- Improved monitoring and leakage detection via optional interface for SCADA connection
- Maximum degree of control thanks to use of an SCe control device with LCD display, simple navigation and adjustment using rotary knob
- Integrated dry-running detection with automatic deactivation via the motor control electronics



Wilo-SiBoost Smart Helix EXCEL

THE INTELLIGENT SYSTEM SOLUTION FOR A SMART SEWAGE PUMPING STATION.



Wastewater transport

Wilo-Rexa SOLID-Q with Nexos Intelligence: the optimal solution for improved reliability and efficiency.

Pumping untreated sewage is an increasingly demanding task: in sewage systems, the proportion of solid matter and retention time in the network are increasing; and the pumped fluids are becoming more aggressive and problematic. Sewage, sludge and sludge water as well as abrasive or fibrous fluids have to be reliably and efficiently transported at different flow rates and delivery heads. Operational reliability, durability and intelligent control, as well as the need to network pumps and pump systems are of growing importance. Water management needs innovative solutions to deal with these new circumstances. As a solutions provider, Wilo offers a unique system solution for smart sewage pumping stations: the new Wilo-Rexa SOLID-Q with Nexos Intelligence is characterised by its outstanding operational reliability, energy efficiency and connectivity in combination with digital interfaces and adaptable functions. In this way, we are constantly bringing greater convenience and efficiency to our customers' everyday work.

Increased operational reliability.

The new Wilo-Rexa SOLID-Q with Nexos Intelligence is an integrated and future-proof system solution for smart sewage pumping stations:

- It can adapt dynamically to changing requirements, thanks to its innovative integrated Nexos Intelligence
- Outstanding operational reliability and reduced servicing costs as a result of the self-cleaning features
- Corrosion protection provided by an optional Ceram coating for a long service life in aggressive media
- Increased operational reliability in the event of a fault thanks to the redundancy design of the integrated pump control

Higher energy efficiency.

A pumping station's efficiency is determined by its energy consumption. The new Wilo-Rexa SOLID-Q with Nexos Intelligence offers active assists you in lowering your energy costs:

- Lower energy costs thanks to outstanding hydraulic efficiency and up to IE5 motor technology in wet and dry well installation (based on IEC 60034-30-2)
- Maximum system efficiency, thanks to automatic calculation of the ideal duty point and intelligent speed control
- Reduced operating costs, due to the avoidance of costly maintenance work at night or at the weekend
- Lower energy costs owing to automated control for the optimum operating mode of a specific system



Wilo-Rexa SOLID-Q with Nexos Intelligence

More connectivity.

With high connectivity and maximum compatibility of the digital interface, Wilo-Rexa SOLID-Q with Nexos Intelligence makes your daily work much easier:

- Optional Digital Data Interface (DDI) with vibration monitoring, data logger, web server and digital rating plate for convenient monitoring and system integration
- Control and networking with the station network via a web server and an Ethernet interface with standard network protocols
- Integrated control electronics to detect and automatically remove blockages

Wastewater transport

Reliable solutions that make a difference.

Our waste water systems are facing ever trickier conditions, from aggressive and greasy sewage with increased solids content or even ground water ingress on construction sites. Digitalisation allows us to equip our sewage solutions with the latest communication technology and enables us to tackle the challenges of tomorrow, today.

Pressure drainage with Nexos Intelligence: smart connectivity for higher efficiency.

Pumping untreated sewage is becoming increasingly difficult due to the varying feeding conditions which often lead to clogging in the pressure pipe network. The innovative pressure drainage system with Nexos Intelligence networks, monitors and controls the individual pumping stations for reliable and energy-efficient pressure drainage.

Your advantages:

- Optimised flow rates ensure that the pressure drainage systems are energy-efficient and run without clogging
- Economic efficiency by optimising the duty points for low-wearing operation
- Reduced maintenance costs for municipal sewage pipes
- Reduced operating costs, thanks to fault detection and targeted rectification
- Easy administration thanks to web access and digital data transmission



Pressure drainage with Nexos Intelligence



Wilopadus PRO: our efficient solution for reliable excavation drainage.

Submersible drainage pumps are subjected to enormous demands by abrasive media when draining excavations. As a result, pump performance constantly decreases, and energy consumption increases. This can result in delays or even stop the construction works. The high-performance Wilopadus PRO was designed specifically for the high demands of excavations.

Your advantages:

- Reliability in abrasive media, thanks to rubber-coated hydraulics and an impeller made of hardened chrome steel
- Easy installation and maintenance, thanks to the flexible pressure connection and quick access to wear parts
- Active cooling for reliable continuous duty, particularly in slurping operation
- Highest operational reliability thanks to integrated protection function
- IE3 motor technology as standard
- WiloCare service with operating data analysis for optimised planning security



Wilopadus PRO



Wastewater treatment

Efficient solutions for crystal clear results.

The scarcity of resources and a continuously growing demand for freshwater call for efficient and reliable water purification solutions. Wilo seizes the opportunities offered by the digitalisation and automation to optimise the operation of wastewater treatment plants. Whether the task is to overhaul an existing plant or design a new wastewater treatment plant, our solutions offer outstanding efficiency and facilitate your daily work.

Aeration systems, mixers and decanting technology: future-proof system solutions.

Wilo offers high-performance machinery with long service lives that are custom-designed for your wastewater treatment plant and treatment method. As an integrated solution, all of the individually calibrated components ensure optimum operation and contribute to improving the overall efficiency of the plant.

Your advantages:

- Individual configuration and planning using modern digital flow simulations
- Optimum system operation and increased efficiency across the entire plant, thanks to innovative aeration systems, mixers and decanting technology



Wilo-EMU TRE 326



Wilo-Vardo WEEDLESS



Wilo-Sevio AIR



Wilo-Sevio ELASTOX



Wilo-Savus OPTI

Wilo-TP Control: automatically ensures improved reliability and efficiency in biological sewage treatment.

Fluctuating inlet volumes are particularly challenging in daily system operation for wastewater treatment plant operators. The new wastewater treatment plant control system Wilo-TP Control automatically improves the reliability and efficiency during biological sewage treatment.

Your advantages:

- Added convenience in your daily work, thanks to Wilo-TP Control, the new wastewater treatment plant control system
- Sustainable data collection and constant analysis as the basis for optimal and safe operation



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