

Pioneering for You

wilo

Product brochure

Your Universal Solution for Water Supply.

Wilo-Zetos K 8.



Wilo

Pioneering for You.



We are there for you wherever you are in the world.

Since 1872, we at Wilo have been turning visionary ideas into intelligent solutions that regularly set new standards in the industry. The goal of our company founder, Caspar Ludwig Opländer, was to use his copper and brass goods factory to improve and facilitate the supply of water to people. It did not take long for the company to take the key step: in 1928, his son Wilhelm designed the world's first circulation accelerator.

We have been continuing this tradition ever since with pioneering innovations in the heating, air-conditioning and cooling sector, such as the world's first high-efficiency pump, and at the same time we have proven our commitment to using valuable resources such as energy and water responsibly. Today the Wilo Group, headquartered in Dortmund, is represented across the globe as an all-round provider of pumps and pump systems for water management.

Cooperative support you can rely on.

With over 7500 employees and 60 production and sales companies all over the world, we personally see to it that the desires and requirements of our customers and users – whether specialist consultants, operators, or general contractors – are met optimally every day. This means making your life and work as easy as possible with our products, solutions and services. "Pioneering for You" is our commitment to a clear customer focus, strict quality orientation and strong passion for technology. In times of dwindling natural resources, using water responsibly is an extremely important task, which is why we are committed to providing pioneering developments, sustainable product solutions, and cooperative support to ensure you can rely on our solutions for irrigation and drainage. Wilo is a partner you can depend on for this in all areas. Allow us to show you how impressively we can solve this for you in this brochure based on the borehole pump Wilo-Zetos K 8 and its applications.

Versatile for every field of application.

The Wilo-Zetos K 8 is designed for universal use. It is equally at home in agriculture and mining. Thanks to the high efficiency and the robust, precision-cast material, it is suitable for a wide range of media and processes of all kinds. When combined with a pressure shroud, they are also suitable for dry well installation.



- 1 Raw water intake
- 2 Clean water treatment
- 3 Water supply and pressure boosting
- 4 Professional irrigation/agriculture
- 5 Industry

Wilo-Zetos K 8.

Rely on great energy efficiency.

75%
Overall efficiency
in combination
with permanent
magnet motors

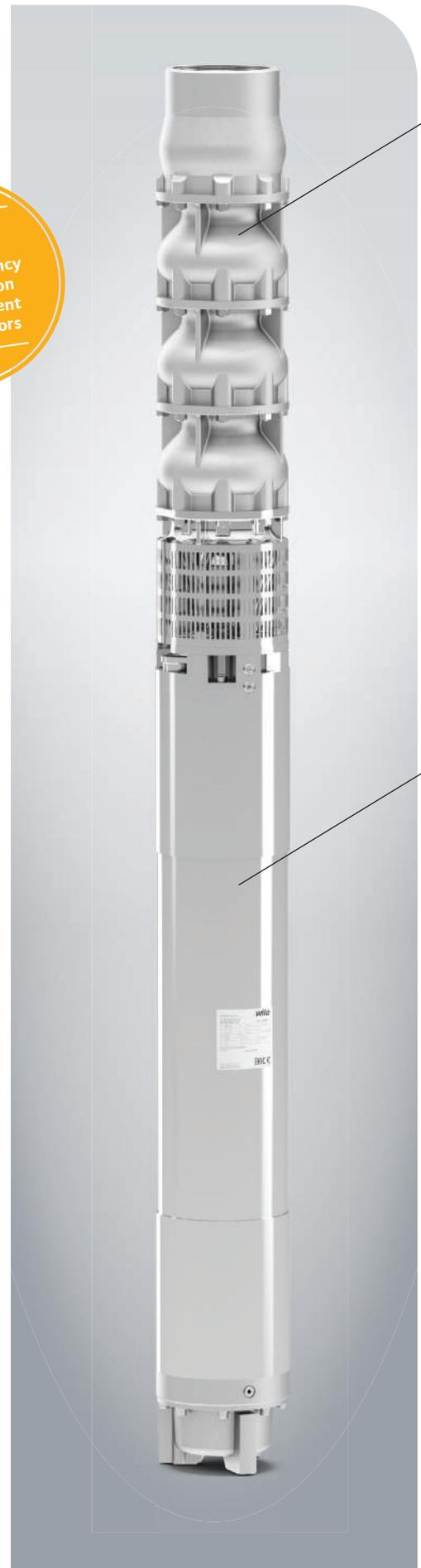
Simply unique. Overall efficiency 75%.

Water is life, making it an essential resource. That means that municipalities face the challenge of ensuring energy-efficient sourcing and supply. This calls for flexible systems with high efficiency that can be configured individually in accordance with the requirements. With Wilo-Zetos K 8, you are right at the source of reliable utilisation and supply to your region. A universal-use and highly economical 8-inch precision-cast, stainless steel pump that sets standards.

Benefit from numerous advantages:

- Top pump efficiency of up to 84.5%
- An as yet unrivalled total efficiency in this class of over 75% with a permanent magnet motor
- Particularly corrosion-resistant thanks to hydraulics comprised entirely of precision-cast stainless steel in 1.4408 (AISI 316)
- High wear resistance: Max. sand content of 150 g/m³
- ACS approved for domestic water applications
- Easy maintenance, simple to dismantle system

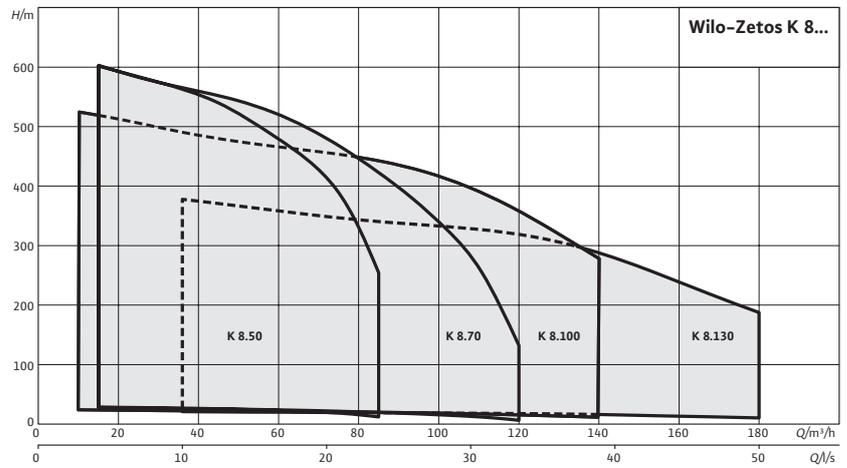
Another advantage: the high quality Wilo-Zetos K 8 is configured according to the application. For example, it can be designed particularly economically for agricultural uses, or for industry as a reliable and energy-efficient permanently operating unit in conjunction with the permanent magnet motor.



Wilo-Zetos K 8. The universal one.

High-efficiency hydraulics.

Wilo-Zetos K 8's outstanding features are multistage hydraulics with semi-axial impellers. Housing parts and impellers are made of precision-cast stainless steel. An optimised impeller design ensures highly smooth operation. The pressure connection is equipped with an integrated non-return valve.



Duty chart overview of Wilo-Zetos K 8

Configurability is the key. The motors for Wilo-Zetos K 8.



The individual configurability of Wilo-Zetos K 8 is also clear when it comes to submersible motors. Powerful 6-inch and 8-inch drives with different strengths, always tailored exactly for the respective applications. It is available as an encapsulated variant for a high thermal load, as a rewindable variant for a wide range of configuration options or a highly efficient variant with a permanent magnet motor.

Permanent magnet motor with frequency converter

Range of motors for Wilo-Zetos K 8

Construction	Permanent magnet motor	Rewindable	Encapsulated
Size	6"	6"-8"	4"-6"
Power	7.5-37 kW	5.5-110 kW	5.5-150 kW
Efficiency	90-93%	76-90%	75-88%
Advantages	<ul style="list-style-type: none"> → High efficiency → Excellent properties in the partial load range → Comprehensive control and protection functions 	<ul style="list-style-type: none"> → Easy to repair → A wide range of configuration options 	<ul style="list-style-type: none"> → High insulation class → Thermal load capacity → High power density

We will be happy to advise you on motor selection and when configuring your individual Wilo-Zetos K 8.

Wilo-Zetos K 8.

Count on maximum economy.

Highly efficient, highly economical.

In the Wilo-Zetos K 8, you choose a variable system solution which sets energy efficiency standards for submersible pumps. The ideal combination of motors and sophisticated hydraulics makes it possible. For you, that means impressively low energy costs with an effective water supply and constantly optimal design at the duty point. The lifecycle cost accounting is evidence of the convincing economy.



Energy cost savings of approx.
€8300 p. a.

Lifecycle cost accounting.

Framework conditions			
Pump	Wilo-EMU NK 86-4 NU611-2/34	Wilo-Zetos K 8.70-4 NU611-2/26	Wilo-Zetos K 8.70-4 NU511-4/30
Motor	Asynchronous	Asynchronous	Permanent magnet
Activation type	Direct	Direct	FC
Running time per day	24 h	24 h	24 h
Running time	10 years	10 years	10 years
Calculation of energy cost savings			
Motor efficiency	81.5%	81.3%	92.5%
Pump efficiency	71.5%	83.8%	83.8%
Total efficiency	58.3%	68.1%	75.6%
Annual energy costs	€37118	€31876	€28762
Annual energy cost saving		€5242	€8357
Calculation of the amortisation time			
Acquisition costs	€8884	€8193	€17087
Amortisation time		Approx. 1.5 years	Approx. 2 years



Try & Buy keeps you on the safe side. For more information visit www.wilo.com/trybuy

Wilo Services.

Our full-service package
for you as partners.



Our customer service always starts with a personal consultation. On this basis, we offer individually customised solutions that meet your needs exactly. But our service goes far above and beyond that. For repairs and maintenance, we are there for you long after the purchase.

Plan with our consulting.

We are there for you and determine your needs exactly. On this basis, our specialists work closely with you to find an individual solution.

You can count on our configuration.

With the help of a modern selection programme, we can offer you the most economical solution.

You can rely on our installation.

Qualified plant engineers with years of experience perform an extensive test and instructional phase with our pumps.

Your complete service package:

Presales:

- On site support
- Planning support
- Product selection
- Selection programmes
- Pipeline calculation
- Installation drawings
- Documentation

Sales:

- Acceptance testing at the plant
- Configuration
- Commissioning

Aftersales:

- Local service in 60 countries
- More than 1200 Wilo technicians worldwide
- Individual maintenance concepts
- Customer-oriented spare part solutions
- Efficiency check
- Training

As a **Wilo customer**, you benefit from services tailored specifically to your requirements.

wilo



www.wilo.com/WaterManagement

WILO SE
Nortkirchenstraße 100
D-44263 Dortmund
Germany
T +49 231 4102-0
F +49 231 4102-7363
wilo@wilo.com
www.wilo.com

Pioneering for You

More contact details at www.wilo.com