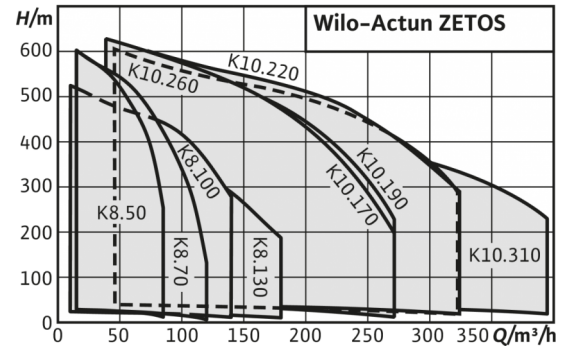


Series description: Wilo-Actun ZETOS

Wilo-Actun ZETOS-K10

Wilo-Actun ZETOS



Efficient raw water intake for all fields of applications

The Wilo-Actun ZETOS is our versatile solution for efficient raw water intake, from municipal water supply to agriculture and mining. With a best-in-class pump efficiency of up to 85.5 %, the ZETOS is ideal for energy-efficient water supply in virtually all processes. The tough stainless steel investment casting and the robust design guarantee a long service life and a sustainable high efficiency, especially in difficult conditions, i.e. a high sand content of up to 150 g/m³.

Construction

Multistage stainless steel investment casting submersible pump in sectional construction for vertical and horizontal installation

Application

- Process water and water supply from boreholes and rainwater storage tanks in communal and industrial applications
- Pumping drinking water with ACS approval
- Pumping water for sprinkling and irrigation
- Ground water lowering
- Pressure boosting
- Pumping water in offshore areas and in fire extinguishing systems
- Utilisation in geothermal and thermal applications
- Water control in mines and mining applications

Equipment/function

- Multistage hydraulics with semi-axial impellers
- Integrated non-return valve
- NEMA coupling
- Three-phase current motor

Scope of delivery

- Unit (hydraulics system + motor) premounted at the factory
- Connection cable per customer request
- Installation and operating instructions

Your advantages

- Energy-efficient water supply, thanks to a pump efficiency of up to 85.5 %
- Cost-efficient operation, thanks to the highest overall efficiency in this class with 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: max. sand content of 150 g/m³
- ACS approval for use with drinking water
- Straightforward maintenance, easy installation and dismantling

Series description: Wilo-Actun ZETOS

Type key

Example:	Wilo-Actun ZETOS-K8.130-17 + NU 701-2/130
Actun	Product family
ZETOS	Series designation
Hydraulics	K8.130-17
K	Type name
8	Diameter of the hydraulic unit in inches ["]
130	Volume flow in the best point at 50 Hz [m ³ /h]
17	Number of hydraulic stages
Motor	NU 701-2/130
NU	Submersible motor
701	Size (5..., 6... = 6"; 7..., 8... = 8")
2	Number of poles
130	Rated power [kW]

Technical data

Hydraulics:

- Max. volume flow: 395 m³/h
- Max. delivery head: 640 m
- Max. fluid temperature: 70 °C
- Max. sand content: 150 g/m³
- Pressure connection
 - K8: G 5
 - K10: G 6, DN 150 (PN 10/16), DN 150 (PN 40)

Motor:

- Mains connection: 3-400 V, 50 Hz ±10 %; 3-460 V, 60 Hz ±10 %; others on request
- Max. fluid temperature: 60 °C, depending on motor type and flow rate at the motor. Higher temperatures on request
- Submerged operating mode: S1
- Max. number of starts:
 - NU 5..., NU 6..., NU 7... = 20/h
 - NU 8..., NU 9..., NU 122 = 10/h
 - NU 160 = 5/h
- Max. immersion depth:
 - NU 5... NU 711 = 350 m
 - NU 701, NU 801, BZ 911, NU122, NU 160 = 300 m
 - NU 611, NU 811 = 100 m
- Protection class: IP68
- Control range for frequency converter:
 - NU 501, NU 611, NU 701 = 30 - 50 Hz
 - NU 511, NU 711 = 60 - 100 Hz (permanent magnet motor, 4 poles)
 - NU 801, NU 811, NU 911, NU 122, NU 160 = 25 - 50 Hz

Description/construction

Submersible pump for vertical or horizontal installation.

Hydraulics

Multistage submersible-motor pump with semi-axial hydraulics. Housing parts and impellers made of stainless steel (1.4408).

Pressure connection

- K8: Threaded connection with non-return valve
- K10: Threaded connection or flange connection, each with non-return valve

Options for pressure connection

- Without non-return valve
- Accessory adaptor for different connection sizes

Series description: Wilo-Actun ZETOS

Description/construction

Motor

Three-phase current motor for direct and star-delta start (FC operation permitted) or permanent magnet motor (FC operation only, output filter is mandatory).

- NU 501, NU 701: Hermetically sealed motor with enamel-insulated winding, resin-impregnated
- NU 511, NU 611, NU 711, NU 8..., NU 901, NU 122, NU 160: Rewindable motor with insulated winding (PE2, PE2/PA or PVC)

Motor shroud made of steel, stainless steel A2/A4 quality or bronze casting.

Hydraulic connection as standard NEMA connection. Sealing of motor shaft by the use of a mechanical seal made of solid silicon carbide material. Self-lubricating motor bearings.

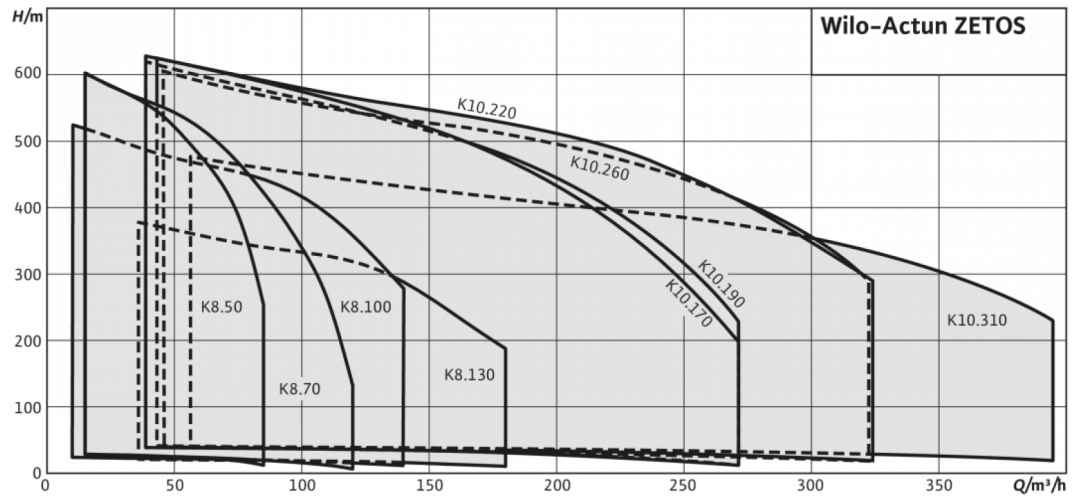
Thrust bearing with rockers for absorption of high axial thrust. Negative axial thrust is absorbed by the counter-thrust bearing.

Motors in the NU 5... and NU 7... series are filled with a water-glycol mixture, all others are filled with a water-glycerine mixture.

The motors can also be filled with drinking water ("T" version).

Duty chart: Wilo-Actun ZETOS

Wilo-Actun ZETOS



Product list: Wilo-Actun ZETOS

Product description	Mains connection	Motor diameter DM	Max. delivery head H_{max}	Max. volume flow Q_{max}	Rated power P_2	Gross weight, approx. m	Article number
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