

Series description: Wilo-Sub TWU 4



Design

Submersible pump, multistage

Application

- For water supply from boreholes and rainwater storage tanks
- For domestic water supply, sprinkling and irrigation
- Pressure boosting
- Lowering the water level
- For pumping water without long-fibre and abrasive constituents

Type key

e.g.	Wilo-Sub TWU 4–0203–C
TWU	Submersible pump
4	Diameter of the hydraulic unit in inches ["]
02	Nominal volume flow [m³/h]
03	Number of hydraulic stages
С	Series generation

Special features/product advantages

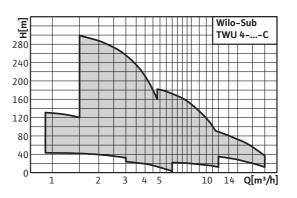
- Parts in contact with fluid are corrosion-free
- Low-wearing due to floating impellers
- Integrated non-return valve
- Vertical and horizontal installation possible

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Immersed operating mode: S1
- Fluid temperature: 3-30 °C
- Minimum flow rate at motor: 0.08 m/s • •
- Max. sand content: 50 g/m⁻ Max. number of starts: 20/h •
- Max. immersion depth: 200 m Protection class: IP 68
- Pressure connection: Rp 1¹/₄ Rp 2

Equipment/function

Multistage submersible-motor pump with radial or semi-axial impellers



Materials

- Hydraulic housing: Stainless steel 1.4301
- · Impellers: Noryl
- Hydraulics shaft: 1.4104 stainless steel
- Motor housing: Stainless steel 1.4301
- Motor shaft: 1.4305 stainless steel

Description/design

Submersible-motor pump for vertical or horizontal installation. Hydraulics

Multistage submersible-motor pump with radial or semi-axial impellers in sectional construction. Integrated non-return valve. All parts in contact with the fluid are made of corrosion-free materials. Motor

Corrosion-free single-phase or three-phase motor for direct starting.Sealed and hermetically cast motor with enamel-insulated winding, resin-impregnated, self-lubricating bearing, with water-glycol filling.

Cooling

The motor is cooled by the fluid. The motor must always be operated in submerged state. The limit values for the max. fluid temperature and the minimum flow rate must not be exceeded. Vertical installation is possible optionally with or without cooling jacket. Cooling jacket is required for horizontal installation.

General notes - ErP (ecological design-) directive

- Minimum Efficiency Index (MEI) ≥ 0 The benchmark for most efficient water pumps is MEI ≥ 0.70
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available at www.europump.org/efficiencycharts

Configuration

1/4



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- Hermetically cast motors
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase motor
- Integrated thermal motor protection for single-phase motor
- No suction mode is possible with these units!
- The unit must be fully immersed in water during operation.

Scope of deliveryHydraulics + motor fully mounted

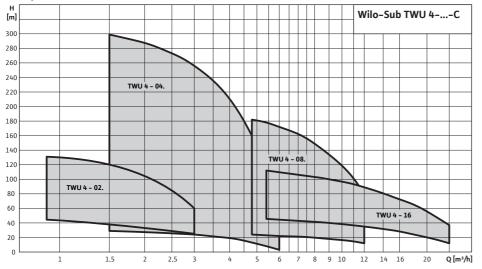
- 1.5/1.75/2.5 m connecting cable approved for potable water (cross-section: 4x1.5 mm²)
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- Installation and operating instructions

Options • Motor versions for special voltages 3~230 V, 50 Hz; 3~500 V, 50 Hz; 1~230 V, 60 Hz; 3~230 V, 60 Hz; 3~380 V, 60 Hz; 3~460 V, 60 Hz



Duty chart: Wilo-Sub TWU 4

Pump curves



1~230 V or 3~400 V, 50 Hz, p = 1 kg/dm3, v = 1x10-6 m2/s, ISO 9906 Annex A, η = pump efficiency

www.wilo.co.uk 50 Hz EU

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Equipment/function: Wilo-Sub TWU 4

Design	
NEMA connection	
Standardised connection	-
Integrated non-return valve	•
Without non-return valve	-
Single-phase AC motor	•
Three-phase motor	•
Direct activation	•
Star-delta activation	-
FC operation	•
Motor with cast stator	•
Rewindable motor	-
Oil motor filling	-
Water-glycol motor filling	•
Potable water motor filling	-
Hydraulics/motor preassembled	•
Application	
Horizontal installation	•
Vertical installation	
Equipment/function	
Motor temperature monitoring, PT100	-
Motor temperature monitoring, PTC	-
Capacitor box for 1~230 V	
Dry-running protection system	-
Integrated lightning protection	-
Accessories	
Bearing brackets for horizontal installation	-
Cooling jacket	optional
Non-return valve	-
Pressure shroud	-
Materials	
Pump housing	Stainless steel
Pump housing (special version)	-
Impeller	Plastic
Impeller (special version)	-
Motor housing	Stainless steel

• = available, = not available

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