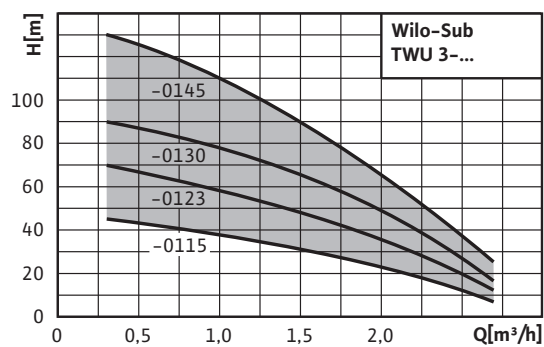
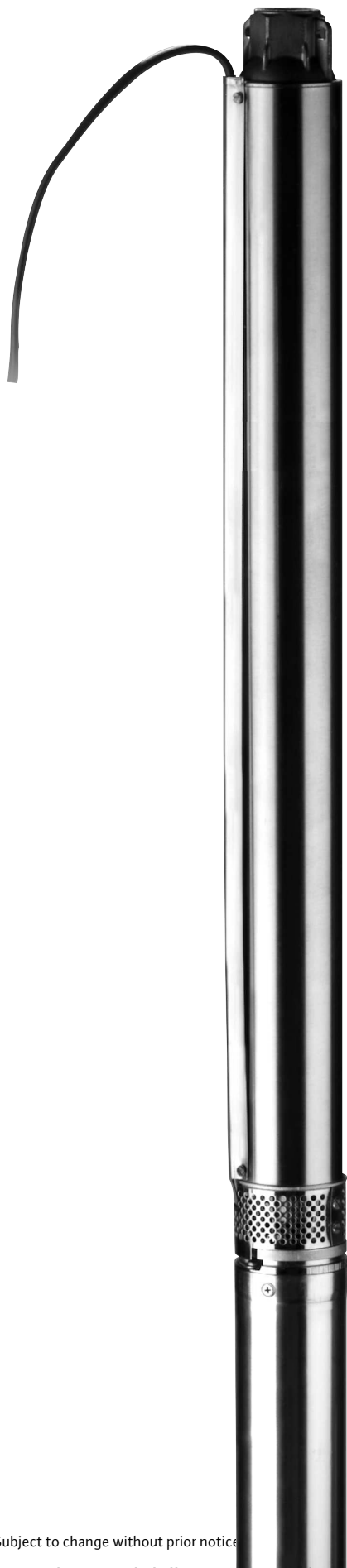


Series description: Wilo-Sub TWU 3



Series description: Wilo-Sub TWU 3

Design

Submersible pump, multistage

Application

- For private water supply from boreholes, wells and rainwater storage tanks
- For domestic water supply, sprinkling and irrigation
- For pumping water without long-fibre and abrasive constituents

Type key

e.g.	Wilo-Sub TWU 3-0115
TWU	Submersible pump
3	Diameter of the hydraulic unit in inches ["]
01	Nominal volume flow [m ³ /h]
15	Number of hydraulic stages

Special features/product advantages

- Rewindable motor
- Integrated non-return valve
- Parts that come in contact with fluids are corrosion-free
- Pump connection head and flange made of stainless steel
- Vertical and horizontal installation possible
- Single-phase version with starting capacitor and On/Off switch

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Immersed operating mode: S1
- Fluid temperature: 3-35 °C
- Minimum flow rate at motor: 0.08 m/s
- Max. sand content: 50 g/m³
- Max. number of starts: 30 /h
- Max. immersion depth: 150 m
- Protection class: IP 58
- Pressure connection: Rp 1

Equipment/function

- Multistage submersible-motor pump with radial impellers
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase AC motor
- Integrated thermal motor protection for single-phase motor

Materials

- Hydraulic housing: 1.4301 stainless steel
- Impellers: polycarbonate
- Hydraulics shaft: 1.4104 stainless steel
- Motor housing: 1.4301 stainless steel
- Motor shaft: 1.4305 stainless steel

Description/design

Submersible-motor pump for vertical or horizontal installation.

Hydraulics

Multistage submersible-motor pump with radial impellers with 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, with rewindable motor, oil-filled, self-lubricating bearing.

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.

Configuration

- No suction mode is possible with these units!
- The unit must be fully immersed in water during operation.

Scope of delivery

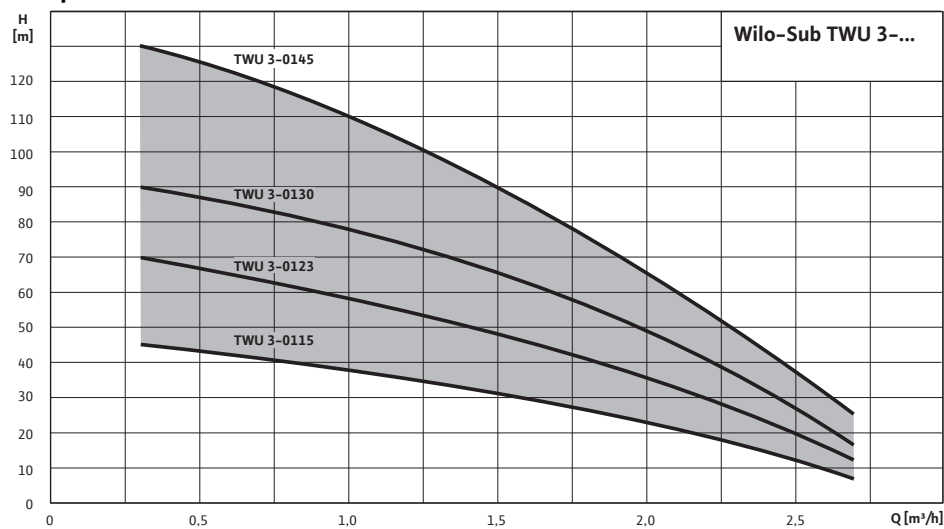
- Hydraulics + motor fully assembled
- 1.8 m connecting cable approved for potable water (cross-section: 4x1.5 mm²)
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- Installation and operating instructions

Options

- Motor versions for special voltages 3~230 V, 50 Hz; 1~230 V, 60 Hz; 3~380 V, 60 Hz

Duty chart: Wilo-Sub TWU 3

Pump curves



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$,
ISO 9906 Annex A, η = pump efficiency

Equipment/function: Wilo-Sub TWU 3

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
Motor housing (special version)	–

• = available, – = not available