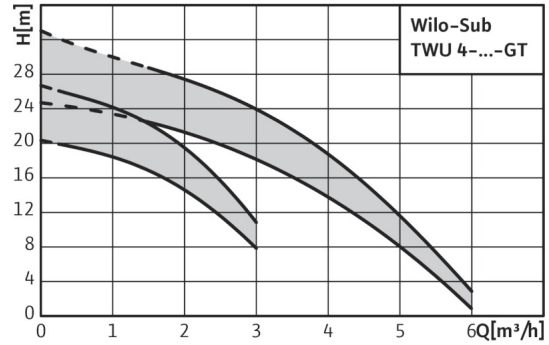


Series description: Wilo-Sub TWU 4-...-GT



Design

Submersible-motor pump, multi-stage

Application

- Geothermal applications
- 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-QC-GT
TWU	Submersible pump
4	Diameter of the hydraulic unit in inches ["]
02	Nominal volume flow [m³/h]
03	Number of hydraulic stages
C	Series generation
QC	Quick Connect Cable for simple and fast extension for the motor cable
GT	for geothermal applications

Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Low-wearing due to floating impellers
- Integrated non-return valve
- Simple and quick extension of the motor cable without dismantling the pump (for QC version)
- Vertical and horizontal installation possible

Technical data

- Mains connection: 3-400 V, 50 Hz
- Immersed operating mode: S1
- Fluid temperature: 3-30°C

Equipment/function

- Multi-stage submersible pump with radial or semi-axial impellers
- Hermetically cast motors
- Integrated non-return valve
- NEMA coupling
- Three-phase motor

Materials

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

Description/design

Submersible pump for vertical or horizontal installation.

Hydraulics

Multi-stage submersible 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 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 maximum 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 and motor ready assembled
- Connecting cable approved for potable water (cross-section 4 x 1.5 mm²)
- Installation and operating instructions



Series description: Wilo-Sub TWU 4-...-GT

- Minimum motor flow: 0.08 m³/s
- Max. sand content: 50 g/m³
- Max. number of starts: 20/h
- Max. immersion depth: 200 m
- Protection class: IP 68
- Pressure connection: Rp 1¼

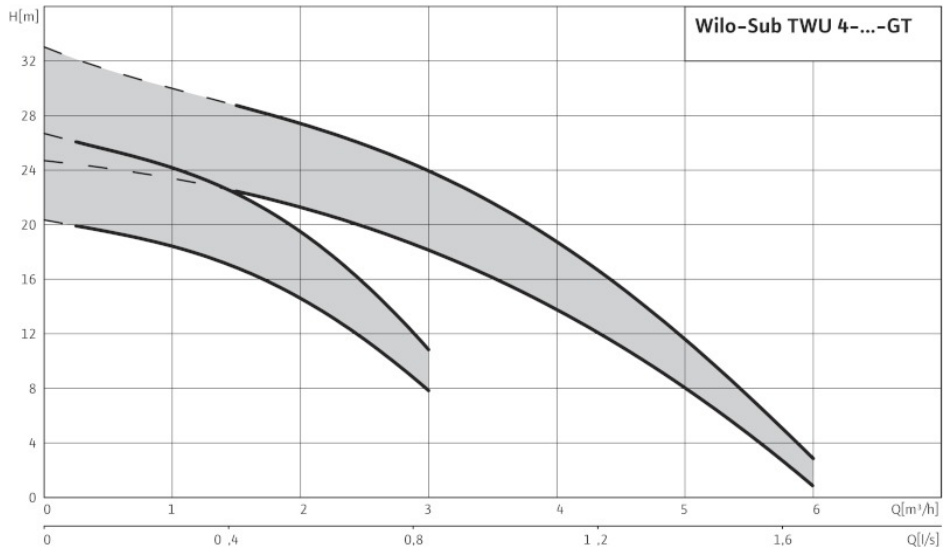
Options

- Motor versions for special voltages 3~380 V, 60 Hz; 3~460 V, 60 Hz



Duty chart: Wilo-Sub TWU 4-...-GT

Pump curves



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$,
ISO 9906 Annex A

Equipment/function: Wilo-Sub TWU 4-...-GT

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



Product list: Wilo-Sub TWU 4-...-GT

Pump type	Mains connection	Max. volume flow	Max. delivery head	Optimum volume flow	Motor diameter	Pressure connection	Nominal motor power	Art no.
		$Q_{max}/m^3/h$	H_{max}/m	$Q_{opt}/m^3/h$	$\phi / ^\circ$		P_2/kW	
TWU 4-0203-C-GT	3~400 V, 50 Hz	2	20	2	4	Rp 1¼	0.25	6060195
TWU 4-0203-C-QC-GT	3~400 V, 50 Hz	2	20	2	4	Rp 1¼	0.25	6060197
TWU 4-0204-C-GT	3~400 V, 50 Hz	2	25	2	4	Rp 1¼	0.25	6060196
TWU 4-0204-C-QC-GT	3~400 V, 50 Hz	2	25	2	4	Rp 1¼	0.25	6060194
TWU 4-0404-C-GT	3~400 V, 50 Hz	6	24	4	4	Rp 1¼	0.25	6065751
TWU 4-0404-C-QC-GT	3~400 V, 50 Hz	6	24	4	4	Rp 1¼	0.25	6065753
TWU 4-0405-C-GT	3~400 V, 50 Hz	6	33	4	4	Rp 1¼	0.37	6065752
TWU 4-0405-C-QC-GT	3~400 V, 50 Hz	6	33	4	4	Rp 1¼	0.37	6065754