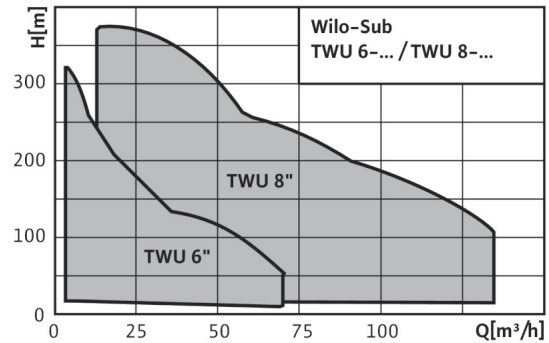


**Series description: Wilo-Sub TWU 8...-B**



**Design**

Submersible pump, multistage

**Application**

- For water supply from boreholes and rainwater storage tanks
- For sprinkling and irrigation
- For lowering the water level
- For pumping water without long-fibre and abrasive constituents

**Type key**

e.g.	Wilo-Sub TWU 6-4208-B-SD
TWU	Submersible pump
6	Diameter of the hydraulic unit in inches ["]
42	Nominal volume flow [m³/h]
08	Number of hydraulic stages
B	Series generation
SD	Starting type Without = Direct starting SD = star/delta starting

**Special features/product advantages**

- Impellers made of bronze
- Integrated non-return valve
- Immersion depth up to 350 m
- Vertical and horizontal installation possible

**Technical data**

- Mains connection: 3~400 V, 50 Hz
- Immersed operating mode: S1
- Fluid temperature: 330 °C
- Minimum motor flow: 0.080.16 m/s
- Max. sand content: 50 g/m<sup>3</sup>
- Max. number of starts: 20/h
- Max. immersion depth: TWU 6... = 250 m; TWU 8... = 350 m
- Protection class: IP 68
- Pressure port: Rp 2 Rp 5

**Equipment/function**

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

**Materials**

- Hydraulic housing: ENGJL200
- Impellers: Bronze
- Hydraulics shaft: Steel 1.4006
- Motor housing: Stainless steel 1.4301
- Motor shaft: 1.4305 stainless steel

**Description/design**

Submersible pump for vertical or horizontal installation.

Hydraulics

Multistage submersible pump with radial or semi-axial impellers.

Integrated non-return valve.

Motor

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.

**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 mounted
- 2.5/4/8 m connecting cable approved for potable water
- Installation and operating instructions

**Options**

- Rewindable motor
- Star/delta starting



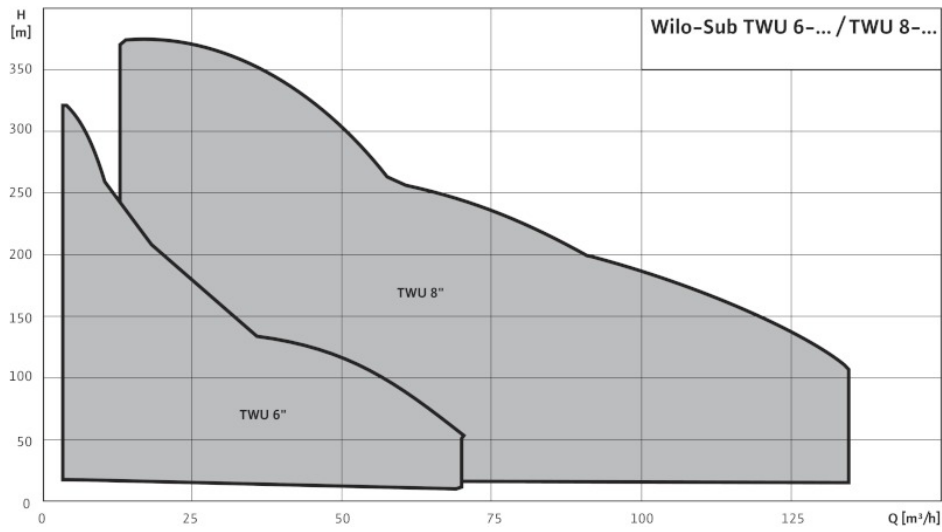
**Series description: Wilo-Sub TWU 8-..-B**

- PT100 sensor for thermal motor monitoring
- Motor housing made of 1.4571 material
- Motor shaft made of 1.4460 material
- Motor versions for special voltages 3~230 V, 50 Hz; 3~500 V, 50 Hz, 3~230 V, 60 Hz; 3~380 V, 60 Hz; 3~460 V, 60 Hz



Duty chart: Wilo-Sub TWU 8...-B

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,  $\eta$  = pump efficiency

**Equipment/function: Wilo-Sub TWU 8-...-B**

**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	optional
Motor temperature monitoring, PTC	optional
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	Cast iron
Pump housing (special version)	–
Impeller	Bronze
Impeller (special version)	–
Motor housing	Stainless steel
Motor housing (special version)	–

• = available, – = not available



**Product list: Wilo-Sub TWU 8-.-B**

Pump type	Mains connection	Max. volume flow	Max. delivery head	Motor diameter	Pressure connection	Nominal motor power	Art no.
		$Q_{max}/m^3/h$	$H_{max}/m$	$\varnothing /"$		$P_2/kw$	
TWU 8-4202-B	3~400 V, 50 Hz	60	38	6	Rp 3	7.50	6044129
TWU 8-4203-B	3~400 V, 50 Hz	60	58	6	Rp 3	11	6044130
TWU 8-4204-B	3~400 V, 50 Hz	60	77	6	Rp 3	15	6044131
TWU 8-4204-B-SD	3~400 V, 50 Hz	60	77	6	Rp 3	15	6044139
TWU 8-4205-B	3~400 V, 50 Hz	60	96	6	Rp 3	18.50	6044132
TWU 8-4205-B-SD	3~400 V, 50 Hz	60	96	6	Rp 3	18.50	6044140
TWU 8-4206-B	3~400 V, 50 Hz	60	115	6	Rp 3	22	6044133
TWU 8-4206-B-SD	3~400 V, 50 Hz	60	115	6	Rp 3	22	6044141
TWU 8-4208-B	3~400 V, 50 Hz	60	153	6	Rp 3	30	6044134
TWU 8-4208-B-SD	3~400 V, 50 Hz	60	153	6	Rp 3	30	6044142
TWU 8-4210-B	3~400 V, 50 Hz	60	190	6	Rp 3	37	6044135
TWU 8-4212-B	3~400 V, 50 Hz	60	230	6	Rp 3	45	6044136
TWU 8-4214-B	3~400 V, 50 Hz	60	275	6	Rp 3	55	6044137
TWU 8-4219-B	3~400 V, 50 Hz	60	375	8	Rp 3	75	6044138
TWU 8-8001-B	3~400 V, 50 Hz	108	16	6	Rp 4	5.50	6044143
TWU 8-8002-B	3~400 V, 50 Hz	108	33	6	Rp 4	11	6044144
TWU 8-8003-B	3~400 V, 50 Hz	108	50	6	Rp 4	15	6044145
TWU 8-8003-B-SD	3~400 V, 50 Hz	108	50	6	Rp 4	15	6044152
TWU 8-8004-B	3~400 V, 50 Hz	108	67	6	Rp 4	22	6044146
TWU 8-8004-B-SD	3~400 V, 50 Hz	108	67	6	Rp 4	22	6044153
TWU 8-8006-B	3~400 V, 50 Hz	108	100	6	Rp 4	30	6044147
TWU 8-8006-B-SD	3~400 V, 50 Hz	108	100	6	Rp 4	30	6044154
TWU 8-8008-B	3~400 V, 50 Hz	108	134	6	Rp 4	45	6044148
TWU 8-8010-B	3~400 V, 50 Hz	108	175	8	Rp 4	55	6044149
TWU 8-8012-B	3~400 V, 50 Hz	108	210	8	Rp 4	75	6044150
TWU 8-8015-B	3~400 V, 50 Hz	108	262	8	Rp 4	93	6044151
TWU 8-10001-B	3~400 V, 50 Hz	132	21	6	Rp 5	9.30	6044155
TWU 8-10002-B	3~400 V, 50 Hz	132	43	6	Rp 5	18.50	6044156
TWU 8-10002-B-SD	3~400 V, 50 Hz	132	43	6	Rp 5	18.50	6044163
TWU 8-10003-B	3~400 V, 50 Hz	132	63	6	Rp 5	30	6044157
TWU 8-10003-B-SD	3~400 V, 50 Hz	132	63	6	Rp 5	30	6044164
TWU 8-10004-B	3~400 V, 50 Hz	132	85	6	Rp 5	30	6044158
TWU 8-10004-B-SD	3~400 V, 50 Hz	132	85	6	Rp 5	30	6044165
TWU 8-10005-B	3~400 V, 50 Hz	132	106	6	Rp 5	45	6044159
TWU 8-10007-B	3~400 V, 50 Hz	132	153	8	Rp 5	55	6044160
TWU 8-10008-B	3~400 V, 50 Hz	132	175	8	Rp 5	75	6044161
TWU 8-10010-B	3~400 V, 50 Hz	132	218	8	Rp 5	93	6044162