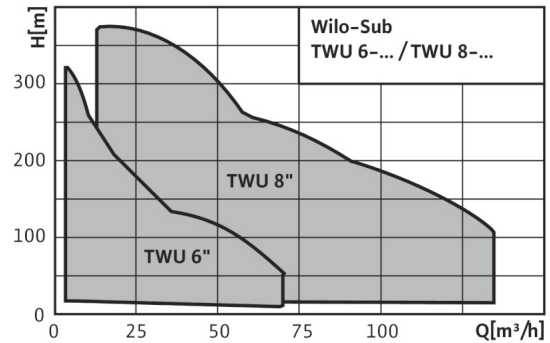


Series description: Wilo-Sub TWU 6...-B



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/m³
- 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



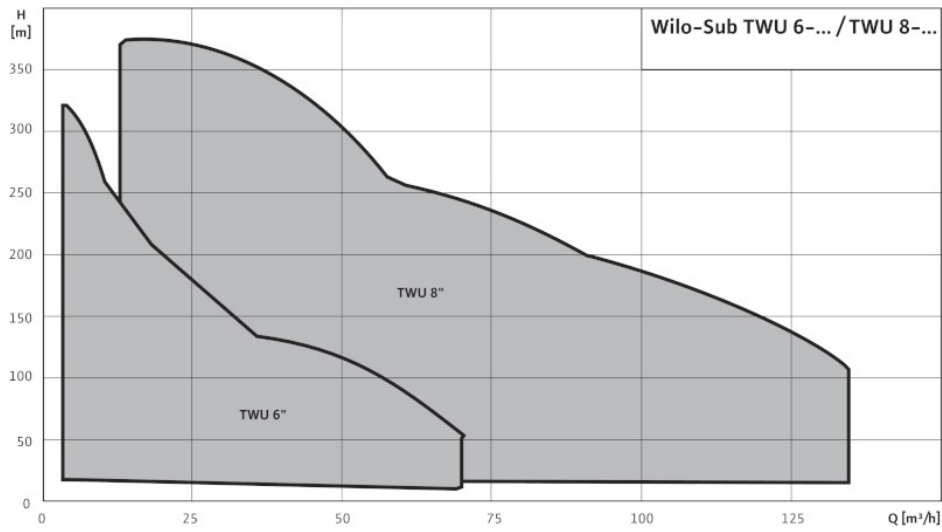
Series description: Wilo-Sub TWU 6-.-B

- 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 6...-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, η = pump efficiency



Equipment/function: Wilo-Sub TWU 6-..-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 6-.-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 6-1203-B	3~400 V, 50 Hz	16	30	4	Rp 2	1.10	6043738
TWU 6-1205-B	3~400 V, 50 Hz	16	50	4	Rp 2	2.20	6043739
TWU 6-1206-B	3~400 V, 50 Hz	16	60	4	Rp 2	2.20	6043740
TWU 6-1207-B	3~400 V, 50 Hz	16	70	4	Rp 2	3	6043741
TWU 6-1211-B	3~400 V, 50 Hz	16	110	4	Rp 2	4	6043742
TWU 6-1213-B	3~400 V, 50 Hz	16	130	4	Rp 2	5.50	6043743
TWU 6-1215-B	3~400 V, 50 Hz	16	150	4	Rp 2	5.50	6043744
TWU 6-1219-B	3~400 V, 50 Hz	16	190	6	Rp 2	7.50	6043745
TWU 6-1222-B	3~400 V, 50 Hz	16	220	6	Rp 2	9.30	6043746
TWU 6-1227-B	3~400 V, 50 Hz	16	270	6	Rp 2	11	6043747
TWU 6-1232-B	3~400 V, 50 Hz	16	320	6	Rp 2	15	6043748
TWU 6-1232-B-SD	3~400 V, 50 Hz	16	320	6	Rp 2	15	6043749
TWU 6-1803-B	3~400 V, 50 Hz	26	33	4	Rp 2	2.20	6043750
TWU 6-1804-B	3~400 V, 50 Hz	26	44	4	Rp 2	3	6043751
TWU 6-1805-B	3~400 V, 50 Hz	26	55	4	Rp 2	3	6043752
TWU 6-1806-B	3~400 V, 50 Hz	26	66	4	Rp 2	4	6043753
TWU 6-1808-B	3~400 V, 50 Hz	26	88	4	Rp 2	5.50	6043754
TWU 6-1810-B	3~400 V, 50 Hz	26	110	6	Rp 2	7.50	6043755
TWU 6-1812-B	3~400 V, 50 Hz	26	133	6	Rp 2	7.50	6043756
TWU 6-1815-B	3~400 V, 50 Hz	26	165	6	Rp 2	11	6043757
TWU 6-1818-B	3~400 V, 50 Hz	26	198	6	Rp 2	11	6043758
TWU 6-1821-B	3~400 V, 50 Hz	26	230	6	Rp 2	15	6043759
TWU 6-1821-B-SD	3~400 V, 50 Hz	26	230	6	Rp 2	15	6043762
TWU 6-1824-B	3~400 V, 50 Hz	26	266	6	Rp 2	15	6043760
TWU 6-1824-B-SD	3~400 V, 50 Hz	26	266	6	Rp 2	15	6043761
TWU 6-2402-B	3~400 V, 50 Hz	35	21	4	Rp 2	2.20	6043763
TWU 6-2403-B	3~400 V, 50 Hz	35	32	4	Rp 2	3	6043764
TWU 6-2404-B	3~400 V, 50 Hz	35	43	4	Rp 2	4	6043765
TWU 6-2405-B	3~400 V, 50 Hz	35	53	4	Rp 2	5.50	6043766
TWU 6-2407-B	3~400 V, 50 Hz	35	74	6	Rp 2	7.50	6043767
TWU 6-2409-B	3~400 V, 50 Hz	35	95	6	Rp 2	11	6043768
TWU 6-2411-B	3~400 V, 50 Hz	35	117	6	Rp 2	11	6043769
TWU 6-2413-B	3~400 V, 50 Hz	35	138	6	Rp 2	15	6043770
TWU 6-2413-B-SD	3~400 V, 50 Hz	35	138	6	Rp 2	15	6043774
TWU 6-2415-B	3~400 V, 50 Hz	35	159	6	Rp 2	15	6043771
TWU 6-2415-B-SD	3~400 V, 50 Hz	35	159	6	Rp 2	15	6043775
TWU 6-2418-B	3~400 V, 50 Hz	35	192	6	Rp 2	18.50	6043772
TWU 6-2418-B-SD	3~400 V, 50 Hz	35	192	6	Rp 2	18.50	6043776
TWU 6-2420-B	3~400 V, 50 Hz	35	214	6	Rp 2	22	6043773
TWU 6-2420-B-SD	3~400 V, 50 Hz	35	214	6	Rp 2	22	6043777
TWU 6-3503-B	3~400 V, 50 Hz	48	26	4	Rp 2½	3	6043778
TWU 6-3504-B	3~400 V, 50 Hz	48	35	4	Rp 2½	4	6043779
TWU 6-3506-B	3~400 V, 50 Hz	48	52	6	Rp 2½	7.50	6043780
TWU 6-3507-B	3~400 V, 50 Hz	48	61	6	Rp 2½	7.50	6043781
TWU 6-3510-B	3~400 V, 50 Hz	48	88	6	Rp 2½	11	6043782
TWU 6-3512-B	3~400 V, 50 Hz	48	105	6	Rp 2½	15	6043783
TWU 6-3512-B-SD	3~400 V, 50 Hz	48	105	6	Rp 2½	15	6043786
TWU 6-3514-B	3~400 V, 50 Hz	48	122	6	Rp 2½	15	6043784
TWU 6-3514-B-SD	3~400 V, 50 Hz	48	122	6	Rp 2½	15	6043787
TWU 6-3517-B	3~400 V, 50 Hz	48	149	6	Rp 2½	18.50	6043785
TWU 6-3517-B-SD	3~400 V, 50 Hz	48	149	6	Rp 2½	18.50	6043788
TWU 6-4503-B	3~400 V, 50 Hz	72	25	4	Rp 3	5.50	6043789
TWU 6-4504-B	3~400 V, 50 Hz	72	36	6	Rp 3	7.50	6043790
TWU 6-4505-B	3~400 V, 50 Hz	72	43	6	Rp 3	9.30	6043791
TWU 6-4506-B	3~400 V, 50 Hz	72	52	6	Rp 3	11	6043792
TWU 6-4508-B	3~400 V, 50 Hz	72	67	6	Rp 3	15	6043793
TWU 6-4508-B-SD	3~400 V, 50 Hz	72	67	6	Rp 3	15	6043798
TWU 6-4510-B	3~400 V, 50 Hz	72	88	6	Rp 3	18.50	6043794



Product list: Wilo-Sub TWU 6-.-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 6-4510-B-SD	3~400 V, 50 Hz	72	88	6	Rp 3	18.50	6043799
TWU 6-4512-B	3~400 V, 50 Hz	72	104	6	Rp 3	22	6043795
TWU 6-4512-B-SD	3~400 V, 50 Hz	72	104	6	Rp 3	22	6044061
TWU 6-4514-B	3~400 V, 50 Hz	72	122	6	Rp 3	30	6043796
TWU 6-4514-B-SD	3~400 V, 50 Hz	72	122	6	Rp 3	30	6044062
TWU 6-4516-B	3~400 V, 50 Hz	72	140	6	Rp 3	30	6043797
TWU 6-4516-B-SD	3~400 V, 50 Hz	72	140	6	Rp 3	30	6044063