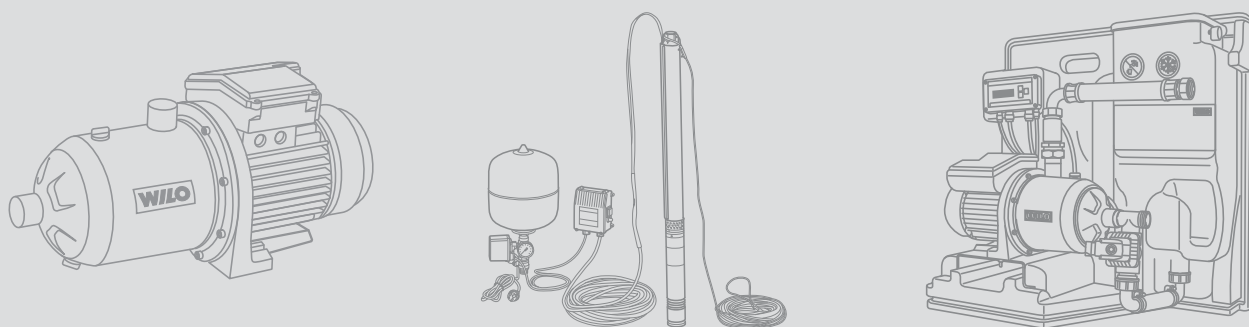


Catalogue Water Supply

Domestic Water Supply, Rainwater Utilisation

Pumps,
Systems
and Accessories





 Wilo-Jet WJ B1	 Wilo-Sub TWU 3 B1	 Wilo-SilentMaster B1	 Wilo-Sub TWU 3 B1	 Wilo-RainSystem AF Comfort B1	 Wilo-Comfort-Vario COR B4	 Wilo-Stratos ECO A1	 Wilo-Safe A1	 Wilo-Star-Z 15 TT A1	 Wilo-DrainLift Con C3	 Wilo-Stratos A1	 Wilo-Drain TM/TMW 32 Twister C1	 Wilo-DrainLift S C3
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 Wilo-EMU KS C1	 Wilo-RainSystem AF 150 B1	 Wilo-Comfort-Vario COR 4 B4	 Wilo-Stratos-D A1	 Wilo-CronoLine-IL-E A2	 Wilo-TOP-Z A1	 Wilo-Stratos A1	 Wilo-CronoBloc-BL A3	 Wilo-DrainLift M C3	 Wilo-DrainLift WS C3
---	--	--	--	---	--	--	---	--	---

Program overview and fields of application

Pumps and systems for domestic water supply and rainwater utilisation

Pump type	Version					Main field of application					
	Self-priming	Non-self-priming	Submersible pumps	Fixed speed	Speed-controlled						

Pumps and systems for domestic water supply and rainwater utilisation

Single pumps	Wilo-Jet WJ	•	–	–	•	–	S	–	S	S	S	S
	Wilo-Multicargo MC	•	–	–	•	–	S	–	S	S	S	S
	Wilo-MultiPress MP	–	•	–	•	–	S	–	S	S	S	S
	Wilo-Sub TWI 5/TWI 5-SE	–	–	•	•	–	S	–	S	S	S	S
	Wilo-Filtec FBS	•	–	–	•	–	–	–	–	–	–	–
	Wilo-Sub TWU 3	–	–	•	•	–	S	–	–	S	S	S
	 Wilo-Sub TWU 4	–	–	•	•	–	S/M	–	S/M	S/M	S/M	S/M
	 Wilo-Sub TWU 4-QC	–	–	•	•	–	S/M	–	S/M	S/M	S/M	S/M
Pump systems	Wilo-Sub TWI 4-B	–	–	•	•	–	S/M	–	S/M	S/M	S/M	S/M
	Wilo-Jet FWJ	•	–	–	•	–	S	–	S	S	S	S
	Wilo-MultiCargo FMC	•	–	–	•	–	S	–	S	S	S	S
	Wilo-MultiPress FMP	–	•	–	•	–	S	–	S	S	S	S
	Wilo-Jet HWJ	•	–	–	•	–	S	–	S	S	S	S
	Wilo-MultiCargo HMC	•	–	–	•	–	S	–	S	S	S	S
	Wilo-MultiPress HMP	–	•	–	•	–	S	–	S	S	S	S
	Wilo-SilentMaster	•	–	–	•	–	S	–	S	S	S	S
	Wilo-Sub TWI 5-SE Plug & Pump	–	–	•	•	–	S	–	S	S	S	S
	Wilo-Sub TWU 3 Plug & Pump	–	–	•	•	–	S	–	–	S	S	S
	Wilo-Sub TWU 4 Plug & Pump	–	–	•	•	–	S/M	–	S/M	S/M	S/M	S/M
Pump systems with system separation	Wilo-RainSystem AF Basic	•	–	–	•	–	–	–	S	S	S	–
	Wilo-RainSystem AF Comfort	•	–	–	•	–	–	–	S	S	S	–
	Wilo-RainSystem AF 150	•	–	–	•	–	–	–	M/C	M/C	M/C	–
	Wilo-RainSystem AF 400	–	•	–	•	–	–	–	M/C	M/C	M/C	–
	Wilo-RainCollector II RWN	•	–	–	•	–	–	S	–	S	S	–

 New in the program or series extension or modification

Pumps and systems for domestic water supply and rainwater utilisation

Main field of application



Key:

- S** Single-family and two-family houses
- M** Multi-family houses
- C** Commercial
- Applicable
- Not applicable

														Page
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S	-	-	-	-	-	-	-	-	-	-	-	-	-	150
S	S	-	-	-	-	-	-	-	-	-	-	-	-	160
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- Self-sufficient water supply
- Rainwater utilisation (as compact unit with extensible storage tanks)
- Rainwater utilisation (in conjunction with underground storage tank or rainwater storage tank)
- Sprinkling
- Irrigation
- Spraying
- Well water supply and supply from rainwater storage tanks
- Lowering of ground water level
- Swimming-pool water circulation
- Cooling water circulation systems
- Cold water circulation systems
- Pure water circulation systems
- Potable water supply
- Pressure boosting systems
- Fire-extinguishing water supply
- Washing systems
- Industrial applications
- Boiler feed
- Process engineering

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Wilo-Jet WJ
 Wilo-MultiCargo MC
 Wilo-MultiPress MP
 Wilo-Sub TWI 5/..SE
 Wilo FilTec FBS
 Wilo-Sub TWU 3
 Wilo-Sub TWU 4, TWU 4-QC
 Wilo-Sub TWI 4-B

Systems 128

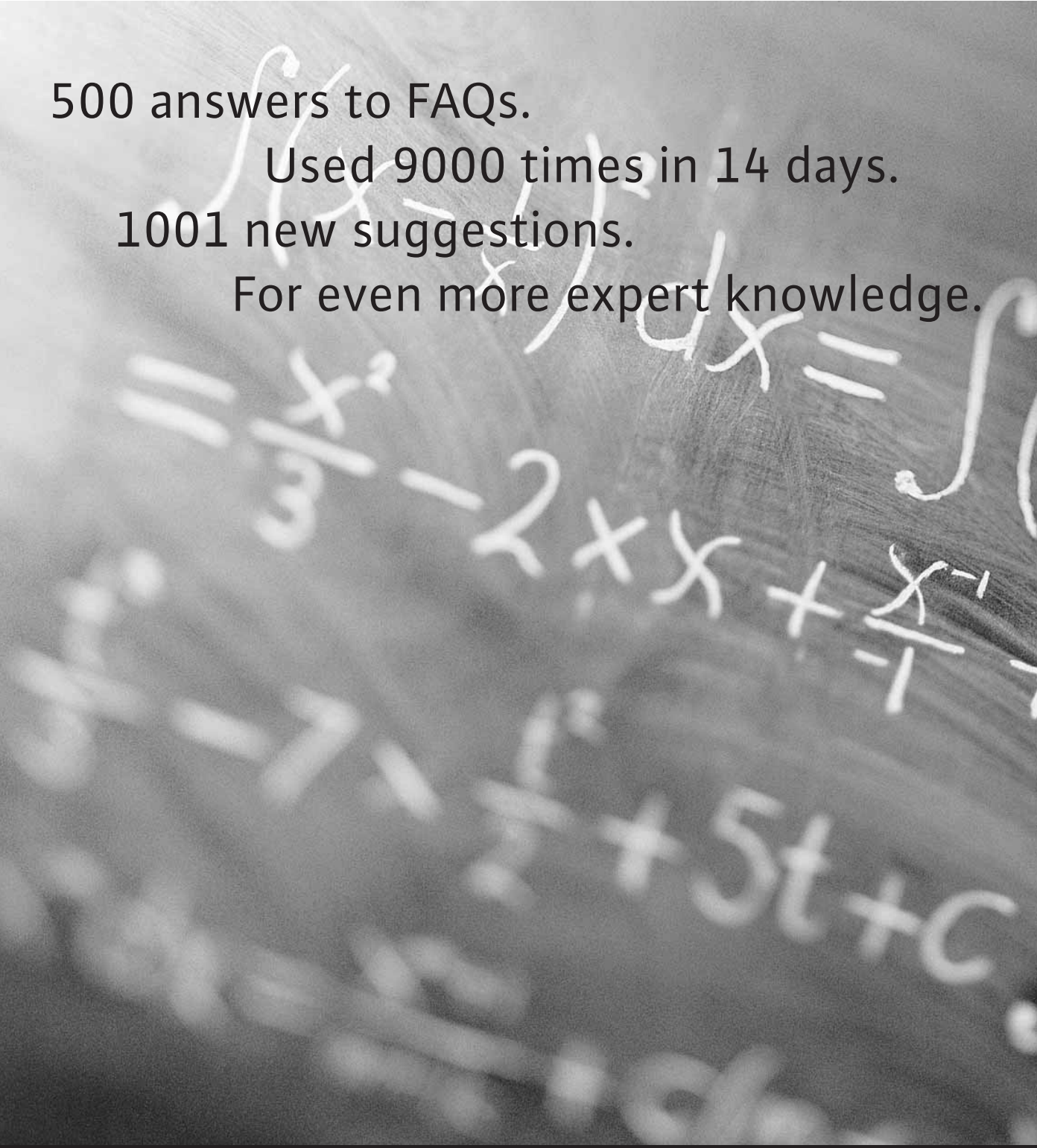
Wilo-Jet FWJ, MultiCargo FMC
 Wilo-MultiPress FMP, Jet HWJ
 Wilo-MultiCargo HMC, MultiPress HMP
 Wilo-SilentMaster, Sub TWI 5-SE Plug & Pump
 Wilo-Sub TWU 3 Plug & Pump
 Wilo-Sub TWU 4 Plug & Pump

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Mechanical accessories
 Electrical accessories

Pump systems with system separation 190

Wilo-RainSystem AF ...
 Wilo-RainSystem AF 400
 Wilo-RainCollector II RWN
 Accessories



500 answers to FAQs.

Used 9000 times in 14 days.

1001 new suggestions.

For even more expert knowledge.

The knowledge database from Wilo.

Did you know? The knowledge database from Wilo will give you good and quick advice: with approx. 500 responses to the most frequently asked questions (FAQs) all about pumps, installations and systems. It is already being visited extensively by many skilled craftsmen. This is proven by 9000 utilisations in only 14 days, which we recently registered. The best thing: With every new question which you ask us with the contact form, we all become wiser together. Because the corresponding answer is naturally incorporated as soon as possible. Know-how? We call this Pumpen Intelligenz.

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Pumpen Intelligenz.

Pumps and systems for domestic water supply

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General notes and abbreviations

Abbreviations used and what they mean

Abbreviation	Meaning
1~	1-phase alternating current
l/min	Revolutions per minute
3~	3-phase alternating current
D	Direct activation
°d H	Degree of German water hardness; Replaced with the SI unit mmol/l; conversion: 1 °dH = 0.1783 mmol/l
DM	Three-phase motor with direct activation
DN	Nominal diameter of the flange connection
EM	Single-phase motor with starting capacitor
EMSC	Single-phase motor with integrated starting capacitor
GRD/GLRD	Mechanical seal
H	Delivery head
H ₂	Approval range for sprinkler pumps
I _A	Starting current
I _N	Rated current; current at P ₂
Inst.	Installation: H = horizontal, V = vertical
I _w	Current consumption for power requirement of the shaft P _w
KTL coating	Cataphoretic coating: coat with high adhesive strength for long-lasting corrosion protection
KTW	Approval for products with plastics, for use in potable water applications
LB	Readiness for delivery (L = stock article, C = available in 2 weeks, K = available in 4 weeks, A = available on request)
max. Ø	Maximum unit diameter incl. cable
mmol/l	Millimol per litre; SI unit for the assessment of the water hardness (total hardness or concentration of alkaline earth ions)
P ₁	Power consumption (power supplied from the mains supply)
PN	Pressure class in bar (e.g. PN10 = suitable up to 10 bar)
P _N = P ₂	Rated motor power
PT 100	Platinum temperature sensor with a resistance value of 100 Ω at 0 °C
PTC	Positive temperature coefficient (see also: TRS)
P _w	Power requirements of the pump hydraulics
Q (= $\dot{V}$)	Volume flow
Q ₂	Approval range for sprinkler pumps
RV	Non-return valve
RVF	Non-return valve, spring-mounted

Abbreviation	Meaning
SBM	Run signal or collective run signal
SD	Three-phase motor with star/delta activation
SD-R	Three-phase motor with star/delta activation, rewindable
SSM	Fault signal or collective fault signal
TrinkwV 2001	German Drinking Water Ordinance of 2001 (valid since 01.01.2003)
TRS	PTC thermistor sensor
v	Speed (velocity)
WRAS	Water Regulations Advisory Scheme (potable water approval for Great Britain and Northern Ireland)
WSK	Thermal winding contacts (in motor for monitoring winding temperature, full motor protection due to additional relay)
Y/Δ	Star/delta activation
	Operating mode of double pumps: Individual operation of the respective duty pump
 + 	Operating mode of double pumps: Parallel operation of both pumps
	Number of poles of electric motors: 2-pole motor = approx. 2900 1/min at 50 Hz
	Number of poles of electric motors: 4-pole motor = approx. 1450 1/min at 50 Hz
	Number of poles of electric motors: 6-pole motor = approx. 950 1/min at 50 Hz

Material designations and their meaning

Material	Meaning
1.4021	Chrome steel X20Cr13
1.4057	Chrome steel X17CrNi16-2
1.4112	Chrome steel X 90 Cr Mo V 18
1.4122	Chrome steel X39CrMo17-1
1.4301	Chrome-nickel steel X5CrNi18-10
1.4305	Chrome-nickel steel X8CrNiS18-9
1.4306	Chrome-nickel steel X2CrNi19-11
1.4308	Chrome-nickel steel GX5CrNi19-10
1.4401	Chromium-nickel-molybdenum steel X5CrNiMo17-12-2
1.4408	Chromium-nickel-molybdenum steel GX5CrNiMo19-11-2
1.4462	Chromium-nickel-molybdenum steel X2CrNiMoN22-5-3
1.4470	Chromium-nickel-molybdenum steel GX2CrNiMoN22-5-3
1.4517	Chrome nickel molybdenum steel with copper addition GX2CrNiMoCuN25-6-3-3
1.4541	Chromium-nickel steel with titanium addition X6CrNiTi18-10
1.4542	Chromium-nickel steel with copper and niobium additions X5CrNiCuNb16-4
1.4571	Chrome-nickel steel with titanium addition X6CrNiMoTi17-12-2
1.4581	Chrome-nickel-molybdenum steel with niobium addition GX5CrNiMoNb19-11-2
Ceram	Ceramic coating; coating with very high adhesive strength, protection against corrosion and abrasion
EN-GJL	Cast iron (cast iron with lamellar graphite)
EN-GJS	Cast iron (ductile cast iron, also known as spheroidal cast iron)
G-CuAl10Si	Nickel-aluminium-bronze
G-CuSn10	Zinc-free bronze
GG	see EN-GJL
GGG	see EN-GJS
NiAl-Bz	Nickel-aluminium-bronze
Noryl	Fibreglass reinforced plastic
PC	Polycarbonate
SiC	Silicone carbide
St	Steel
St. vz.	Galvanized steel
V2A (A2)	Material group, e.g. 1.4301, 1.4306
V4A (A4)	Material group, e.g. 1.4404, 1.4571

Wear and tear

Pumps or pump components are subject to wear and tear in accordance with the best available technology (DIN 31051/DIN-EN 13306). This wear may vary depending on operating parameters (temperature, pressure, speed, water conditions) and the installation/usage situation and may result in the malfunction or failure at different times of the aforementioned products/components, including their electrical/electronic circuitry.

Wearing parts are all components subject to rotary or dynamic strain, including electronic components under tension, in particular:

- Seals (including mechanical seals), seal rings
- Stuffing boxes
- Bearings and shafts
- Impellers and pump components
- Wear rings and counter rings
- Stationary wear rings/wear plates
- Macerators
- Capacitors
- Relays/contactors/switches
- Electronic circuits, semiconductor components, etc.

When pumps and dynamic-type compressors (such as submersible mixers and recirculation pumps) and their components have a coating (cataphoretic coating, ZK or ceram coating), this coating is subject to constant wear from the abrasive components of the medium. Therefore, the coating is also included among the wear parts for these units.

We do not accept liability for faults or defects arising from natural wear and tear.

WILO – General Terms of Delivery and Service

The latest version of our General Terms of Delivery and Service can be found on the Internet at

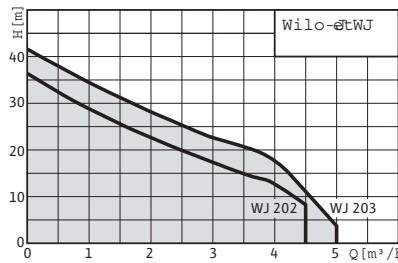
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Pumps and systems for domestic water supply

Single pumps

Series overview Wilo-Jet WJ, MultiCargo MC

Series: Wilo-Jet WJ



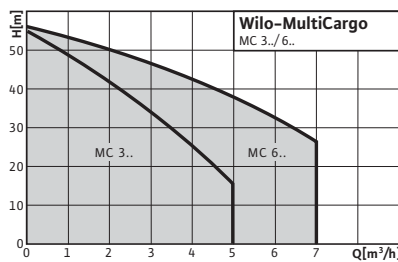
> Self-priming pumps

> Application:

- Pumping from wells
- Filling, pumping empty, transferring by pumping, irrigation and sprinkling
- As an emergency pump for use during flooding



Series: Wilo-MultiCargo MC



> Self-priming pumps

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying
- Rainwater utilisation



Series overview Wilo-Jet WJ, MultiCargo MC

Series: Wilo-Jet WJ

> Product advantages

- Ideal for portable outdoor applications (hobby, garden)

> Additional information:

Page

- Equipment/function 12
- Technical data 13
- Pump curves, dimensions, weights 14

Series: Wilo-MultiCargo MC

> Product advantages

- Low-noise
- Ideal as a base-load pump for rainwater utilisation

> Additional information:

Page

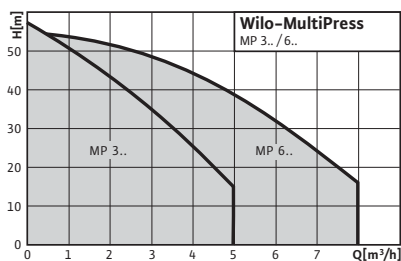
- Equipment/function 12
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- Pump curves 15
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Pumps and systems for domestic water supply

Single pumps

Series overview Wilo-MultiPress MP, Sub TWI 5/..-SE

Series: Wilo-MultiPress MP



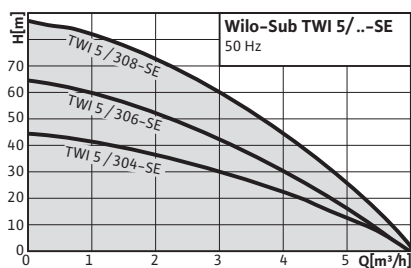
> Non-self-priming pumps

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying
- Rainwater utilisation



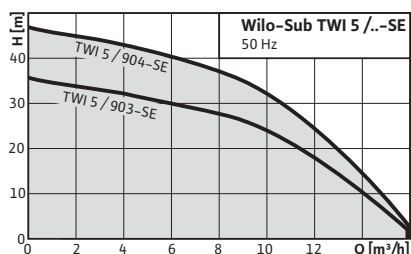
Series: Wilo-Sub TWI 5/..-SE



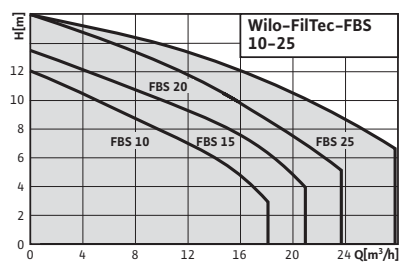
> Submersible pump

> Application:

- Pumping from wells, rainwater storage tanks and vessels
- Irrigation, sprinkling or pumping out
- Water supply
- Rainwater utilisation



Series: Wilo-FilTec FBS



> Filter block pumps

> Application:

Pumping swimming-pool water in accordance with DIN 19643, Parts 1 to 5



Series overview Wilo-MultiPress MP, Sub TWI 5/..-SE

Series: Wilo-MultiPress MP

> Product advantages

- Low-noise
- Ideal as a base-load pump for rainwater utilisation

> Additional information:

Page

- Equipment/function 12
- Technical data 13
- Pump curves, motor data 17
- Dimensions, weights 18

Series: Wilo-Sub TWI 5/..-SE

> Product advantages

- Ready-to-plug as 1~230 V version
- Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304)
- Standard feed basket for TWI 5 version
- Feed connection for TWI 5-SE version
- Self-cooling motor
- Installation possible outside water
- Thermal motor protection with 1~230 V version

> Additional information:

Page

- Equipment/function 19
- Technical data 20
- Pump curves 21
- Dimensions, weights 22
- System examples 23

Series: Wilo-FilTec FBS

> Product advantages

- Patented, water-cooled, particularly low-noise glandless pump motor
- Low-vibration bearing configuration without anti-friction bearings
- Lightweight and compact design due to fibreglass-reinforced, pressure-resistant and heat-resistant plastic
- Large preliminary filter for protecting the pump

> Additional information:

Page

- Equipment/function 27
- Technical data 28
- Pump curves, dimensions, weights 29

Pumps and systems for domestic water supply

Single pumps

Equipment/function Wilo-Jet WJ, MultiCargo MC, MultiPress MP

	Wilo-Jet WJ	Wilo-MultiCargo MC	Wilo-MultiPress MP
Hydraulics			
Self-priming	•	•	–
Non-self-priming	–	–	•
Single-stage centrifugal pump	•	–	–
Multistage centrifugal pump	–	•	•
Directly flanged motor	•	•	•
Filter pump	–	–	–
Glandless technology	–	–	–
Preliminary filter	–	–	–
Motor			
Mains connection 1~230 V	•	•	•
Mains connection 3~400 V	•	•	•
Connection cable (1~230 V version)	•	–	–
On/Off switch (for single-phase version)	•	–	–
Capacitor (1~230 V version)	•	•	•
Thermal motor protection switch (1~230 V version)	•	•	•
Equipment/scope of delivery			
PVC screwed connections on suction and pressure sides	–	–	–
Support frame	•	–	–
Safety rope made of polypropylene	–	–	–
Installation instructions	•	•	•

• = available, – = not available

Technical data Wilo-Jet WJ, MultiCargo MC, MultiPress MP

	Wilo-Jet WJ	Wilo-MultiCargo MC	Wilo-MultiPress MP
Approved fluids			
Pure water without settling sediment	•	•	•
Process water, cold water, cooling water	•	•	•
Rainwater	•	•	•
Swimming-pool water in accordance with DIN 19643, Parts 1 to 5	–	–	–
Power			
Max. volume flow [m³/h]	5	8	8
Max. delivery head [m]	43	57	57
Max. suction head [m]	8	8	–
Max. inlet pressure [bar]	1	4	6
Fluid temperature [°C]	+5 to +35	+5 to +35	+5 to +35
Ambient temperature [°C]	40	40	40
Max. operating pressure [bar]	6	8	10
Mains connection 1~ [V]	230	230	230
Mains connection 3~ [V]	400	400	400
Mains connection 3~ [V] Alternative application without extra charge	230	230	230
Mains frequency [Hz]	50	50	50
Nominal speed [1/min]	2900	2900	2900
Motor			
Protection class	IP 44	IP 54	IP 54
Insulation class	B	F	F
Pipe connections			
Pressure side [Rp]	1	1	1
Suction side [Rp]	1	1	1
Materials			
Pump housing	1.4301	1.4301	1.4301
Impeller	1.4301	Noryl	Noryl
Shaft	1.4005	1.4028 1.4404 (1.1 kW)	1.4028 1.4404 (1.1 kW)
Mechanical seal	Ceramic/carbon	Carbon/ceramic	Carbon/ceramic
Stage chambers	–	Noryl	Noryl
Diffuser/injector	Noryl	–	–
Seals	NBR	NBR	NBR

• = available, – = not available

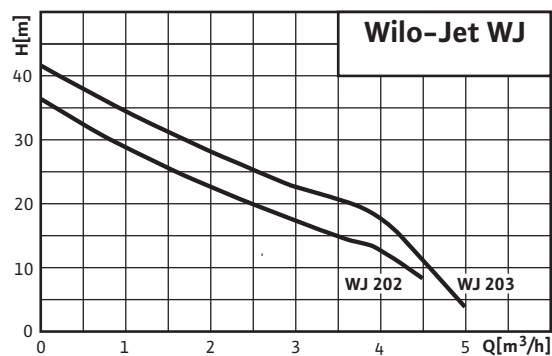
Pumps and systems for domestic water supply

Single pumps

Pump curves, dimensions, weights, motor data Wilo-Jet WJ

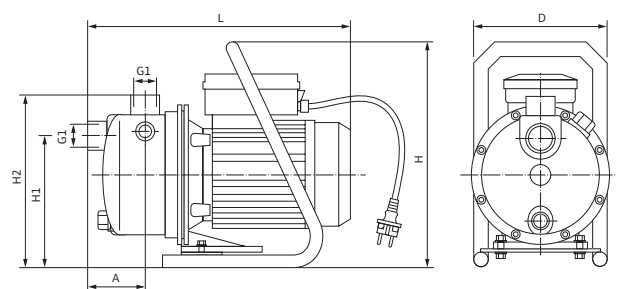
Wilo-Jet WJ

$n = 2850 \text{ 1/min}$

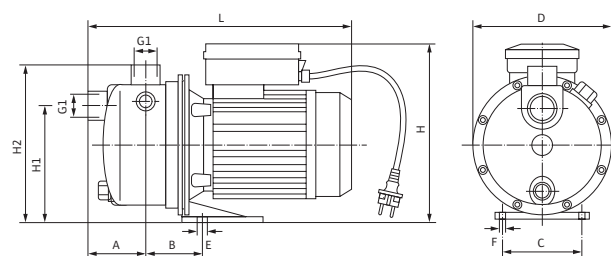


Dimension drawings

WJ version with handle



WJ ... X version without handle



Dimensions, weights

Wilo-Jet ...	Dimensions										Weight
	A	B	C	D	E	F	H	H ₁	H ₂	L	
	[mm]										[kg]
WJ 202 (1~)	80	180	–	184	–	–	290	167.5	223	354	9.6
WJ 203 (1~)	80	180	–	184	–	–	290	167.5	223	354	10.6
WJ 203 X (3~)	80	83	98	184	20	10	203	147.5	200	354	9.3
WJ 202 X (1~)	80	83	98	184	20	10	226	147.5	200	354	8.9
WJ 203 X (1~)	80	83	98	184	20	10	226	147.5	200	354	9.9

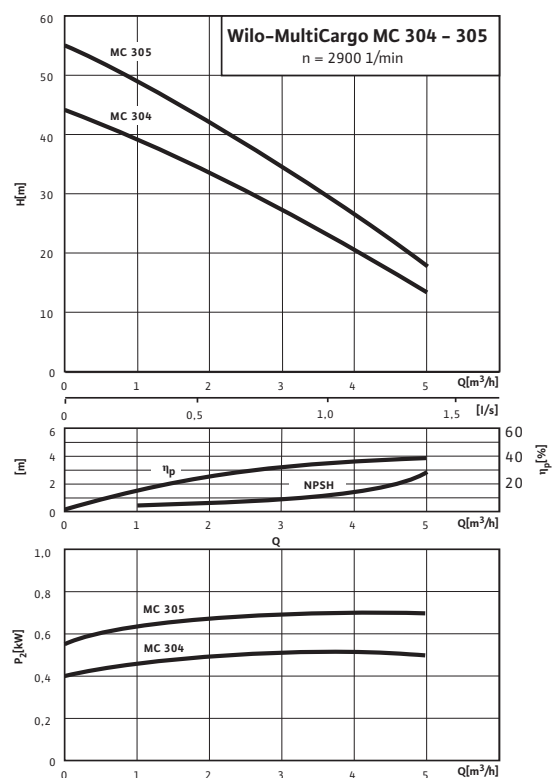
Motor data (2-pole/50 Hz)

Wilo-Jet ...	Nominal power P_2	Nominal current I_N with		
		1~230 V	3~230 V	3~400 V
	[kW]	[A]		
WJ 202	0.65	3.8	—	—
WJ 203	0.75	4.5	3.3	1.9

Pump curves, motor data Wilo-MultiCargo MC

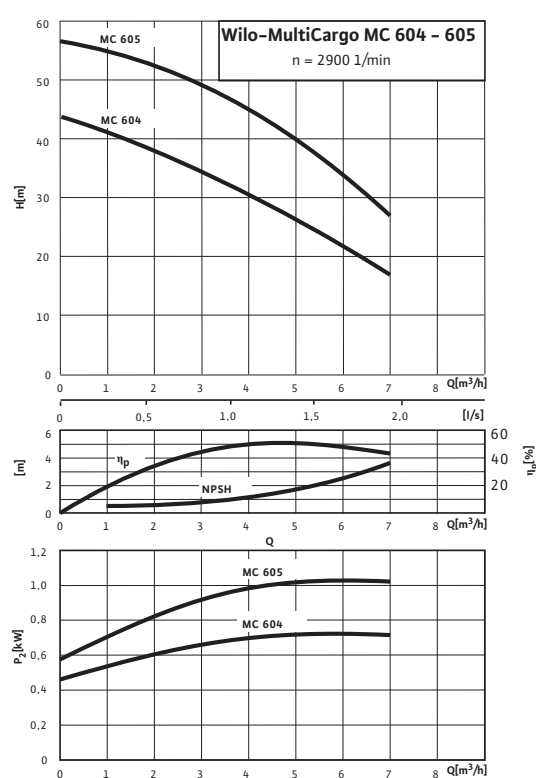
Wilo-MultiCargo MC 304 - 305

n = 2900 1/min



Wilo-MultiCargo MC 604 - 605

n = 2900 1/min



Motor data (2-pole/50 Hz)

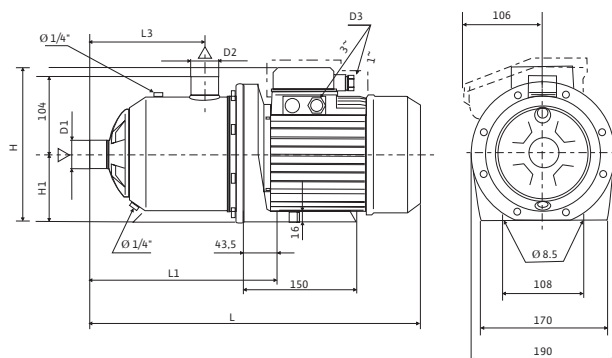
Wilo-MultiCargo ...	Nominal power P_2	Nominal current I_N with		
		1~230 V	3~230 V	3~400 V
	[kW]	[A]		
MC 304	0.55	4.0	3.3	1.9
MC 305	0.75	5.3	3.6	2.1
MC 604	0.75	5.3	3.6	2.1
MC 605	1.1	7.2	5.0	2.9

Pumps and systems for domestic water supply

Single pumps

Dimensions, weights Wilo-MultiCargo MC

Dimension drawing



Terminal box, single-phase version: Represented by broken line

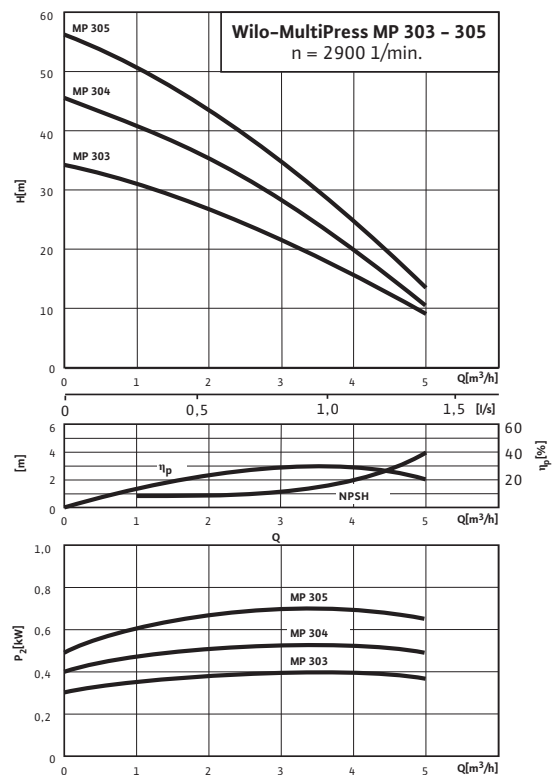
Dimensions, weights

Wilo-MultiCargo ...	Dimensions											Weight	
	H		H ₁	L		L ₁	L ₃	D ₁	D ₂	D ₃		1~230 V	3~400 V
	1~230 V	3~400 V		1~230 V	3~400 V					1~230 V	3~400 V		
	[mm]												
MC 304	216	192	90	418	423	253	157.5	Rp 1	Rp 1	13.5	11	8.4	9.3
MC 305	216	192	90	447	447	277	181.5	Rp 1	Rp 1	13.5	11	11.7	10.8
MC 604	216	192	90	423	423	253	157.5	Rp 1	Rp 1	13.5	11	11.7	10.8
MC 605	224	192	90	472	447	277	181.5	Rp 1	Rp 1	13.5	11	14.8	12.3

Pump curves, motor data Wilo-MultiPress MP

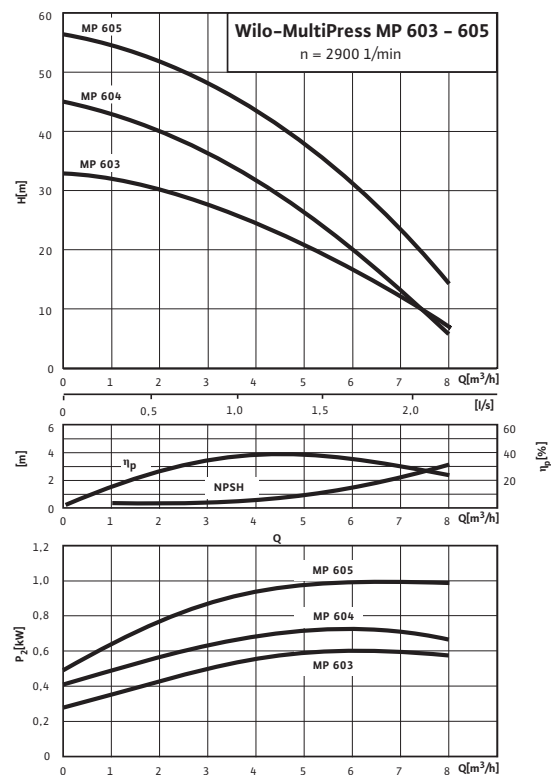
Wilo-MultiPress MP 303 – 305

n = 2900 1/min



Wilo-MultiPress MP 603 – 605

n = 2900 1/min



Motor data (2-pole/50 Hz)

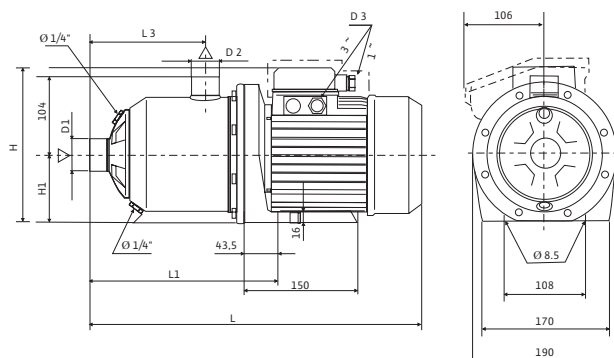
Wilo-MultiPress ...	Nominal power P_2	Nominal current I_N with		
		1~230 V	3~230 V	3~400 V
	[kW]	[A]		
MP 303	0.55	4.0	—	—
MP 304	0.55	4.0	3.3	1.9
MP 305	0.75	5.3	3.6	2.1
MP 603	0.55	4.0	3.3	1.9
MP 604	0.75	5.3	3.6	2.1
MP 605	1.1	7.2	4.9	2.8

Pumps and systems for domestic water supply

Single pumps

Dimensions, weights Wilo-MultiPress MP

Dimension drawing



Terminal box, single-phase version: Represented by broken line

Dimensions, weights

Wilo-MultiPress ...	Dimensions								Pg screwed connections		Weight		
	H		H ₁	L		L ₁	L ₃	D ₁	D ₂	D ₃		1~230 V 3~400 V	
	1~230 V	3~400 V		1~230 V	3~400 V					1~230 V	3~400 V		
	[mm]									Pg			
MP 303	216	—	90	375	375	205	109.5	Rp 1	Rp 1	13.5	—	8.8	—
MP 304	216	216	90	423	423	253	157.5	Rp 1	Rp 1	13.5	11	9.1	8.2
MP 305	216	192	90	423	423	253	157.5	Rp 1	Rp 1	13.5	11	10.6	9.7
MP 603	216	192	90	375	375	205	109.5	Rp 1 1/4	Rp 1	13.5	11	9.4	8.7
MP 604	216	192	90	423	423	253	157.5	Rp 1 1/4	Rp 1	13.5	11	10.6	9.7
MP 605	224	192	90	448	423	253	157.5	Rp 1 1/4	Rp 1	13.5	11	13.5	11.0

Equipment/function Sub TWI 5/..-SE

	Wilo- Sub TWI 5/..-SE
Hydraulics	
Self-priming	–
Non-self-priming	•
Submersible pump	•
Directly flanged motor	–
Filter pump	–
Glandless technology	–
Preliminary filter	–
Motor	
Mains connection 1~230 V	•
Mains connection 3~400 V	•
Connection cable, 20 m	•
On/Off switch (for single-phase version)	optional
Capacitor (1~230 V version)	•
Thermal motor protection switch (1~230 V version)	•
Equipment/scope of delivery	
PVC screwed connections on suction and pressure sides	–
Support frame	–
Safety rope made of polypropylene	•
Installation instructions	•

• = available, – = not available

Pumps and systems for domestic water supply

Single pumps

Technical data Wilo-Sub TWI 5/..-SE

	Wilo-Sub TWI 5/..-SE
Approved fluids	
Pure water without settling sediment	•
Process water, cold water, cooling water	•
Rainwater	•
Swimming-pool water in accordance with DIN 19643, Parts 1 to 5	–
Power	
Max. volume flow [m³/h]	16
Max. delivery head [m]	88
Max. suction head [m]	–
Max. inlet pressure [bar]	–
Fluid temperature [°C]	+3 to +40
Ambient temperature [°C]	–
Max. operating pressure [bar]	10
Mains connection 1~ [V]	230
Mains connection 3~ [V]	400
Mains connection 3~ [V] Alternative application without extra charge	–
Mains frequency [Hz]	50
Nominal speed [1/min]	2900
Motor	
Protection class	IP 68
Insulation class	F
Pipe connections	
Pressure side [Rp]	1 1/4
Suction side [Rp]	1 1/4
Materials	
Pump housing	1.4301
Impeller	1.4301
Shaft	1.4301
Mechanical seals	SIC/SIC Carbon/ceramic
Stage chambers	1.4301
Diffuser/injector	1.4301
Seals	NBR

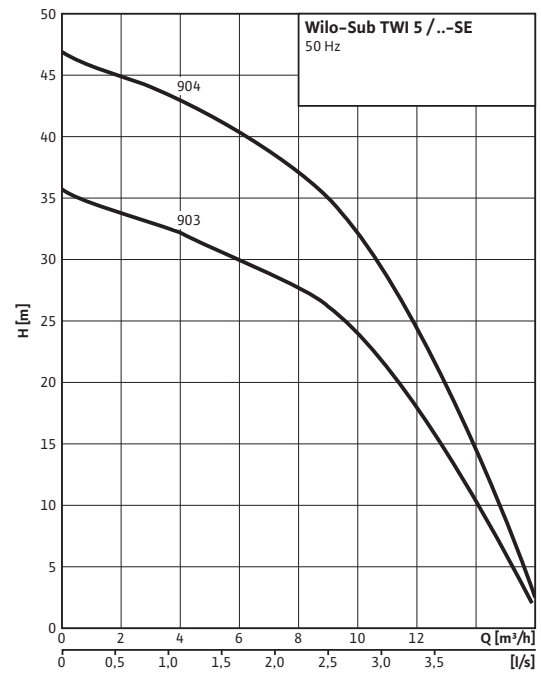
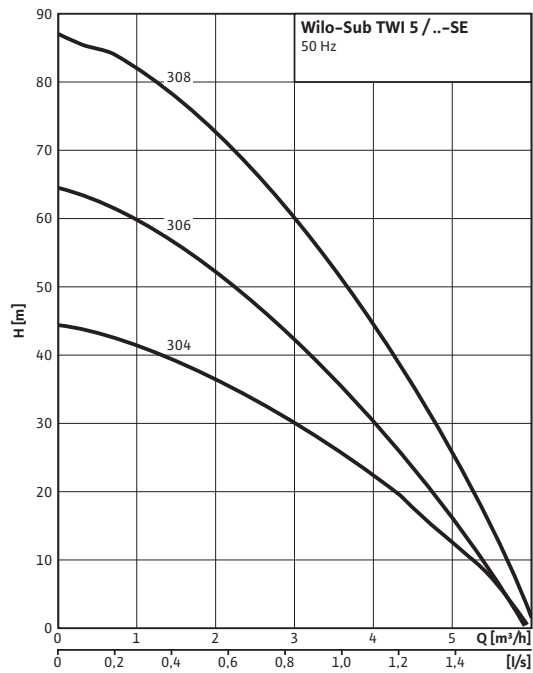
• = available, – = not available

Pump curves Wilo-Sub TWI 5/..-SE

Wilo-Sub TWI 5/..-SE 304 - 308

Wilo-Sub TWI 5/..-SE 903 - 904

$n = 2850 \text{ 1/min}$



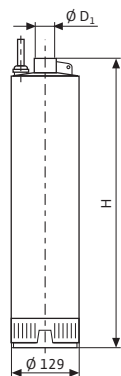
Pumps and systems for domestic water supply

Single pumps

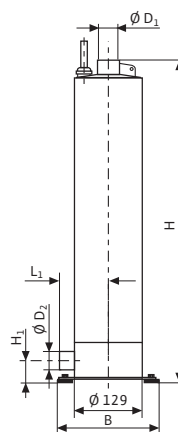
Dimensions, weights, motor data Wilo-Sub TWI 5/-SE

Dimension drawings

TWI 5



TWI 5-SE

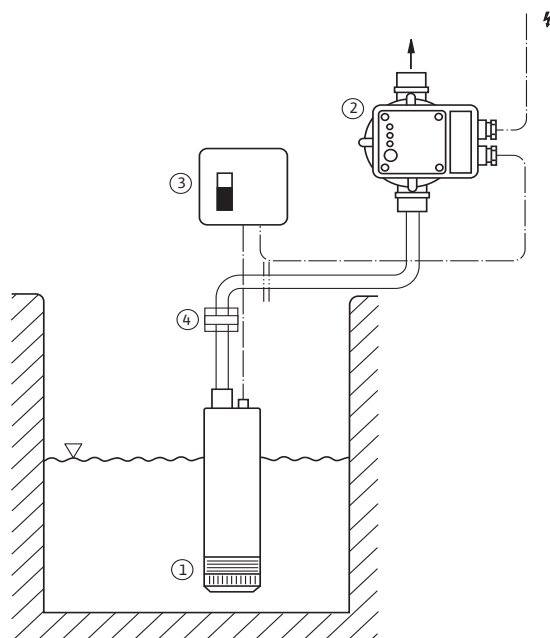


Dimensions, weights

Wilo-Sub ...	Dimensions							Power consumption	Nominal power	Weight	
	H		H ₁	L ₁	D ₁	D ₂	B	P ₁	P ₂	1~230 V	3~400 V
	1~230 V	3~400 V									
	[mm]						[Ø mm]	[kW]		[kg]	
TWI 5-304 (1~)	480	—	—	—	Rp 1 1/4	—	—	0.85	0.55	16.5	—
TWI 5-306 (1~)	528	—	—	—	Rp 1 1/4	—	—	1.2	0.75	17.5	—
TWI 5-308 (1~)	576	—	—	—	Rp 1 1/4	—	—	1.6	1.1	21	—
TWI 5-903 (1~)	504	—	—	—	Rp 1 1/4	—	—	1.55	1.1	19	—
TWI 5-904 (1~)	584	—	—	—	Rp 1 1/4	—	—	2.1	1.5	21.5	—
TWI 5-306 (3~)	—	528	—	—	Rp 1 1/4	—	—	1.2	0.75	—	17.5
TWI 5-308 (3~)	—	576	—	—	Rp 1 1/4	—	—	1.45	1.1	—	18.5
TWI 5-903 (3~)	—	504	—	—	Rp 1 1/4	—	—	1.4	1.1	—	17
TWI 5-904 (3~)	—	584	—	—	Rp 1 1/4	—	—	1.75	1.5	—	19.5
TWI 5-SE-304 (1~)	539	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	0.85	0.55	17	—
TWI 5-SE-306 (1~)	587	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.2	0.75	18	—
TWI 5-SE-308 (1~)	635	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.6	1.1	21.5	—
TWI 5-SE-903 (1~)	563	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.55	1.1	19.5	—
TWI 5-SE-904 (1~)	643	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	2.1	1.5	22	—
TWI 5-SE-306 (3~)	—	587	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.2	0.75	—	18
TWI 5-SE-308 (3~)	—	635	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.45	1.1	—	19
TWI 5-SE-903 (3~)	—	563	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.4	1.1	—	17.5
TWI 5-SE-904 (3~)	—	643	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.75	1.5	—	20

System examples Wilo-Sub TWI 5

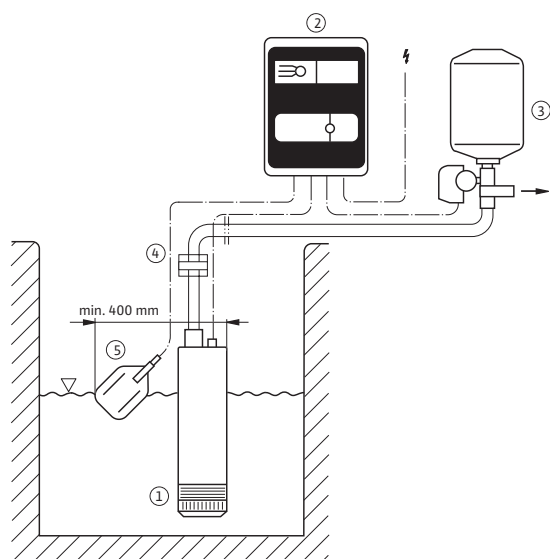
Water-supply unit (single-phase version)



Key

- 1 Submersible pump, Wilo-Sub TWI 5 (1~)
- 2 Electronically controlled flow and pressure controller, Wilo-Fluid-Control, with non-return valve and low-water protection, maximum rating $P_2 \leq 1.5$ kW (maximum current 10 A) and Wilo-Fluid-Control wall bracket (accessories)
- 3 Switchbox with On/Off switch
(in the scope of delivery of Wilo-Sub TWU)
- 4 Wilo quick coupling (see water supply accessories)

Water-supply unit (three-phase version)



Key

- 1 Submersible pump, Wilo-Sub TWI 5 (3~)
- 2 Switchgear ER-1 with $P_2 \leq 4$ kW rating (max. current 10 A)
With built-in electron. motor protection, Manual-0-Automatic switch, pump switching by pressure switch and potential-free collective fault signal for wall fixation
- 3 WVA pressure switching kit with special non-return valve, pressure switch, pressure gauge, 8-l-diaphragm pressure vessel, completely assembled (for wall-mounted installation with equipment provided by customer)
- 4 Wilo quick coupling (see water supply accessories)
- 5 WA 65 protection against low water level with connection cable (float switch)

Note:

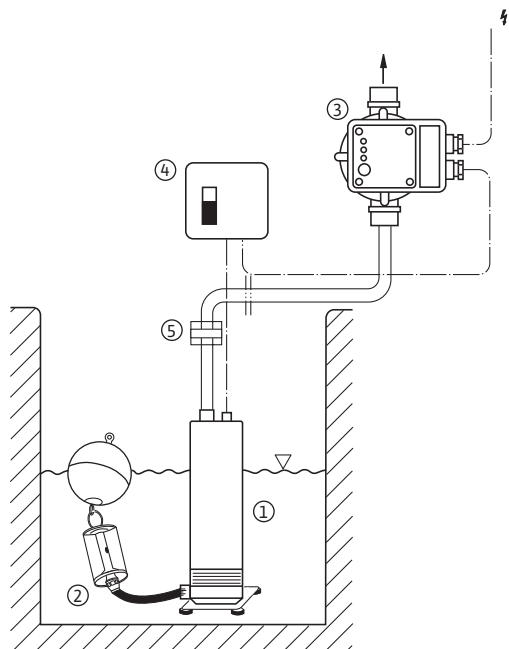
Multi-pump systems (installation clearance for pumps at least 1 m) can be dimensioned at customer request.

Pumps and systems for domestic water supply

Single pumps

System examples Wilo-Sub TWI 5-SE

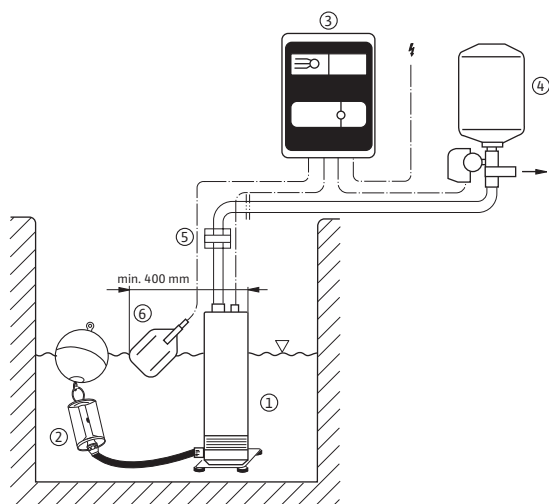
Water-supply unit (single-phase version)



Key

- 1 Submersible pump, Wilo-Sub TWI 5-SE (1~)
- 2 Floating suction filter Ø 1" with screwed connection R 1¹/₄
- 3 Electronically controlled flow and pressure controller, Wilo-FluidControl, with non-return valve and low-water protection, maximum rating $P_2 \leq 1.5$ kW (max. current 10 A) and Wilo-FluidControl wall bracket (accessory)
- 4 Switchbox with On/Off switch
(in the scope of delivery of Wilo-Sub TWI 5-SE (1~))
- 5 Wilo quick coupling (see water supply accessories)

Water-supply unit (three-phase version)



Key

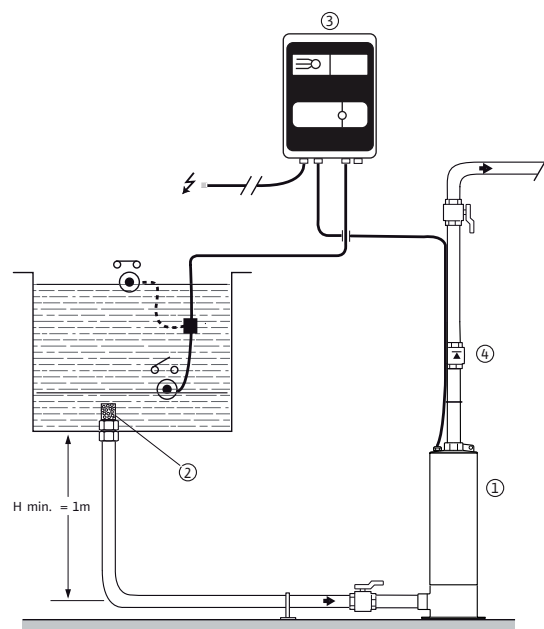
- 1 Submersible pump, Wilo-Sub TWI 5-SE (3~)
- 2 Floating suction filter Ø 1" with screwed connection R 1¹/₄
- 3 Switchgear ER-1 with $P_2 \leq 4$ kW rating (max. current 10 A)
With built-in electron. motor protection, Manual-0-Automatic switch, pump switching by pressure switch and potential-free collective fault signal for wall fixation
- 4 WVA pressure switching kit with special non-return valve, pressure switch, pressure gauge, 8-l diaphragm pressure vessel, completely assembled (for wall-mounted installation with equipment provided by customer)
- 5 Wilo quick coupling (see water supply accessories)
- 6 WA 65 protection against low water level with connection cable (float switch)

Note:

Multi-pump systems (installation clearance for pumps at least 1 m) can be dimensioned at customer request.

System examples Wilo-Sub TWI 5-SE

Water-supply unit; example of dry well installation (three-phase version)



Key

- 1 Submersible pump, Wilo-Sub TWI 5-SE (3~)
- 2 Strainer
- 3 Switchgear ER-1 with $P_2 \leq 4$ kW rating (max. current 10 A)
With built-in electron. motor protection, Manual-0-Automatic switch, pump switching by pressure switch and potential-free collective fault signal for wall fixation
- 4 Wilo quick coupling (see water supply accessories)

Note:

Multi-pump systems (installation clearance for pumps at least 1 m) can be dimensioned at customer request.

Pumps and systems for domestic water supply

Single pumps

Planning guide

Electrical connection of the Wilo submersible-motor pumps

Cable lengths and cross-sections

The cable cross-sections required for the electrical connection of the Wilo submersible-motor pumps depend on the length of the connection cable, the mains voltage and on the motor power and starting mode of the motor. This data can be taken from the following table.

Each motor cable can be extended with the respective available motor cable cross-section by at least a minimum of 30 m.

For additional planning information, see Wilo planning guide "Bore-hole Technology".

Maximum possible cable length and required cable cross-section

Mains connection	Motor power	Cable cross-section 4 x n [mm ²]																
		1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
	[kW]	Max. possible cable length [m]																
Direct starting 3~400 V 50 Hz or 3~380 V 60 Hz	11	–	45	72	107	176	278	423	577	–	–	–	–	–	–	–	–	–
	15	–	–	–	80	132	208	317	452	595	–	–	–	–	–	–	–	–
	18.5	–	–	–	65	107	168	256	348	481	645	–	–	–	–	–	–	–
	22	–	–	–	–	90	142	215	295	407	545	704	–	–	–	–	–	–
	30	–	–	–	–	–	108	164	223	306	408	522	622	–	–	–	–	–
	37	–	–	–	–	–	86	131	179	248	335	434	524	623	–	–	–	–
	45	–	–	–	–	–	–	112	152	209	279	358	426	502	580	–	–	–
	55	–	–	–	–	–	–	–	124	170	228	293	351	414	481	571	–	–
	75	–	–	–	–	–	–	–	–	129	173	223	267	316	367	437	500	583
	93	–	–	–	–	–	–	–	–	–	134	172	205	241	279	330	375	433
	110	–	–	–	–	–	–	–	–	–	–	145	174	205	237	281	320	370
Direct starting 1~230 V 50 Hz	0.25	190	320	510	770	1260	1970	2960	3990	5340	6970	8750	–	–	–	–	–	–
	0.37	120	210	330	500	820	1290	1950	2640	3560	4680	5910	–	–	–	–	–	–
	0.55	80	140	230	350	580	900	1360	1830	2450	3210	4020	–	–	–	–	–	–
	0.75	60	110	180	270	440	690	1050	1430	1930	2550	3230	–	–	–	–	–	–
	1.1	40	70	120	190	310	490	750	1020	1390	1860	2380	–	–	–	–	–	–
	1.5	30	60	100	150	250	400	620	850	1180	1590	2070	–	–	–	–	–	–
	2.2	20	40	60	100	170	270	410	560	770	1030	1320	–	–	–	–	–	–
	3.7	–	–	40	60	110	170	260	370	520	710	930	–	–	–	–	–	–

Equipment/function Wilo-FilTec FBS

	Wilo-FilTec FBS
Hydraulics	
Self-priming	•
Non-self-priming	–
Single-stage centrifugal pump	•
Multistage centrifugal pump	–
Submersible pump	–
Directly flanged motor	–
Filter pump	•
Glandless technology	•
Preliminary filter	•
Motor	
Mains connection 1~230 V	•
Mains connection 3~400 V	•
Connection cable (1~230 V version)	–
On/Off switch (for single-phase version)	–
Capacitor (1~230 V version)	•
Thermal motor protection switch (1~230 V version)	–
Equipment/scope of delivery	
PVC screwed connections on suction and pressure sides	•
Support frame	–
Safety rope made of polypropylene	–
Installation instructions	•

• = available, – = not available

Pumps and systems for domestic water supply

Single pumps

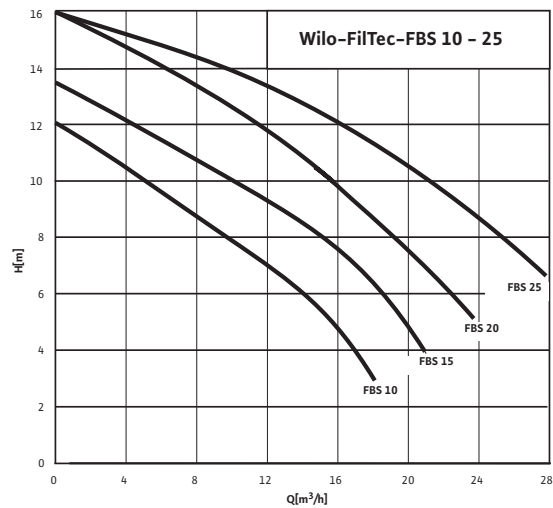
Technical data Wilo-FilTec FBS

	Wilo-FilTec FBS ...						
	10 EM	15 EM	20 EM	10 DM	15 DM	20 DM	25 DM
Approved fluids							
Pure water without settling sediment	•	•	•	•	•	•	•
Process water, cold water, cooling water	•	•	•	•	•	•	•
Swimming-pool water in accordance with DIN 19643, Parts 1 to 5	•	•	•	•	•	•	•
Power							
Max. volume flow [m³/h]	18	21	23	18	21	23	28
Optimum volume flow [m³/h]	12.5	15.2	16.1	12.4	14.8	16.5	19.5
Max. delivery head [m]	12	13	16	12	13	16	16
Max. suction head [m]	3	3	3	3	3	3	3
Max. inlet pressure [bar]	–	–	–	–	–	–	–
Fluid temperature [°C]	+5 to +40	+5 to +40	+5 to +40	+5 to +40	+5 to +40	+5 to +40	+5 to +40
Ambient temperature [°C]	40	40	40	40	40	40	40
Max. operating pressure [bar]	–	–	–	–	–	–	–
Mains connection 1~ [V]	230	230	230	230	230	230	230
Mains connection 3~ [V]	400	400	400	400	400	400	400
Mains frequency [Hz]	50	50	50	50	50	50	50
Nominal speed [1/min]	2700	2700	2700	2700	2700	2700	2700
Motor							
Nominal power P ₂ [kW]	0.6	0.75	0.95	0.6	0.75	0.95	1.5
Nominal current [A]	6.0	7.0	8.4	2.1	2.4	2.9	3.9
Protection class	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Insulation class	F	F	F	F	F	F	F
Pipe connections							
Pressure side [Rp]	1	1	1	1	1	1	1
Suction side [Rp]	1	1	1	1	1	1	1
Materials							
Pump housing	Plastic (PPO) Trade name: Noryl						
Impeller	Plastic (PPO) Trade name: Noryl						
Guide wheel	Plastic (PP – 40 % GF)						
Filter disk	Plastic (PE)						
Filter basket	Plastic (PA 6.6)						
Filter cover	Plastic (PC, clear)						
Shaft	Stainless steel (1.4122)						
Seals	NBR	NBR	NBR	NBR	NBR	NBR	NBR

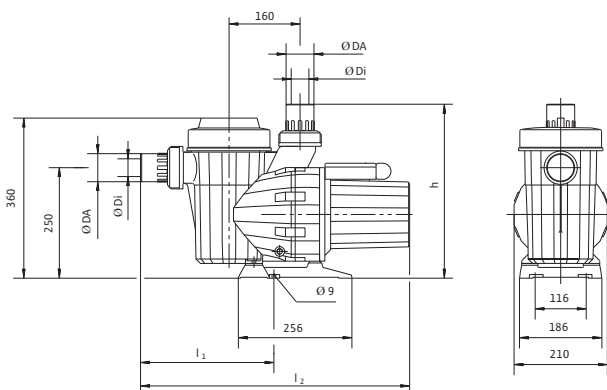
• = available, – = not available

Pump curves, dimensions, weights Wilo-FilTec FBS

Wilo-FilTec FBS



Dimension drawings



Dimensions, weights

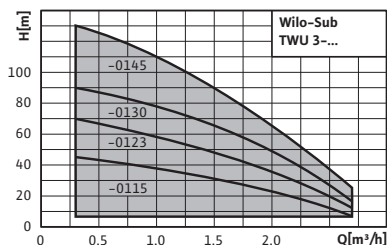
Wilo-FilTec FBS ...	Dimensions					Weight
	DA	Di	h	l ₁	l ₂	–
	[mm]					[kg]
FBS 10 EM	–	50	366	265	525	15
FBS 15 EM	–	50	366	265	560	20
FBS 20 EM	63	–	400	300	595	21
FBS 10 DM	–	50	366	265	525	15
FBS 15 DM	–	50	366	265	560	20
FBS 20 DM	63	–	400	300	595	21
FBS 25 DM	63	–	400	300	595	22

Pumps and systems for domestic water supply

Single pumps

Series overview Wilo-Sub TWU 3, TWU 4, TWU 4-QC, TWI 4

Series: Wilo-Sub TWU 3

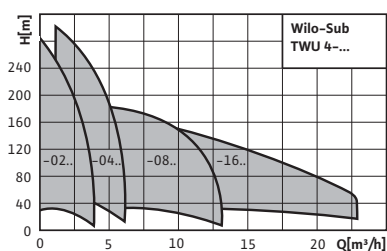


> Application

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



Series: Wilo-Sub TWU 4

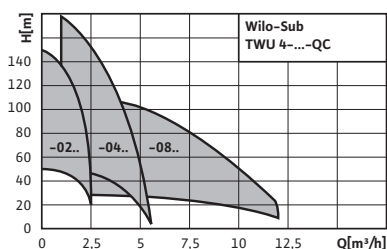


> Application

- 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 fibrous and abrasive constituents



Series: Wilo-Sub TWU 4-QC



> 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 fibrous and abrasive constituents



Series overview Wilo-Sub TWU 3, TWU 4, TWU 4-QC, TWI 4

Series: Wilo-Sub TWU 3

> Special features/product advantages

- Motor with rewindable stator
- 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

> Additional information

- | | Page |
|----------------------------|------|
| • Series description | 46 |

Series: Wilo-Sub TWU 4

> Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Integrated non-return valve
- Vertical and horizontal installation possible

> Additional information

- | | Page |
|----------------------------|------|
| • Series description | 51 |

Series: Wilo-Sub TWU 4-QC

> Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Integrated non-return valve
- Simple and fast extension of the motor cable, without dismantling the pump
- Vertical and horizontal installation possible

> Additional information

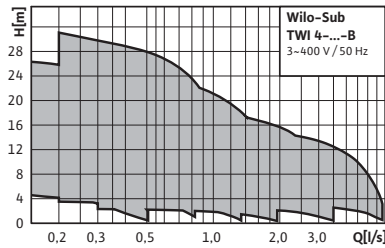
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| • Series description | 66 |

Pumps and systems for domestic water supply

Single pumps

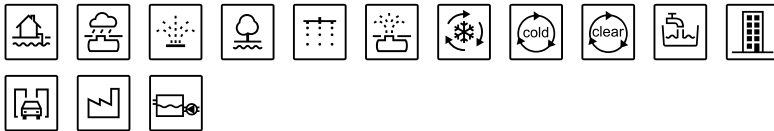
Series overview Wilo-Sub TWU 3, TWU 4, TWU 4-QC, TWI 4

Series: Wilo-Sub TWI 4-...-B



>Application

- For water and potable water supply from boreholes and rain storage tanks
- Process water supply
- For municipal water supply, sprinkling and irrigation
- Pressure boosting
- Lowering the water level
- For pumping water in industrial applications
- For pumping water without long fibrous and abrasive constituents





Series overview Wilo-Sub TWU 3, TWU 4, TWU 4-QC, TWI 4

Series: Wilo-Sub TWI 4-..-B

> Special features/product advantages

- Simple maintenance due to fast installation and dismantling
- Integrated non-return valve
- Vertical and horizontal installation possible

> Additional information

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| • Series description | 78 |

Pumps and systems for domestic water supply

Single pumps

Technical data

Wilo-Sub...	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	–	Q	H	ρ	–	v	–			
	–	[m³/h]	[m]	[g/m³]	–	[m/s]	–		[m]	[1/h]
TWU 3-0115	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0115	3~400 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0123	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0123	3~400 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0130	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0130	3~400 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0145	3~400 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 4-0207-C	1~230 V, 50 Hz	2.5	46	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0207-C	3~400 V, 50 Hz	2.5	46	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0210-C	1~230 V, 50 Hz	2.5	68	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0210-C	3~400 V, 50 Hz	2.5	68	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0214-C	1~230 V, 50 Hz	2.5	91	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0214-C	3~400 V, 50 Hz	2.5	91	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0227-B	1~230 V, 50 Hz	2.5	130	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0227-B-EMSC	1~230 V, 50 Hz	2.5	130	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0227-B	3~400 V, 50 Hz	2.5	130	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0232-B	1~230 V, 50 Hz	2.5	153	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0232-B-EMSC	1~230 V, 50 Hz	2.5	153	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0232-B	3~400 V, 50 Hz	2.5	153	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0246-B	1~230 V, 50 Hz	2.5	218	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0246-B-EMSC	1~230 V, 50 Hz	2.5	218	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0246-B	3~400 V, 50 Hz	2.5	218	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0260-B	1~230 V, 50 Hz	2.5	284	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0260-B-EMSC	1~230 V, 50 Hz	2.5	284	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0260-B	3~400 V, 50 Hz	2.5	284	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0405-B	1~230 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0405-B-EMSC	1~230 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0405-B	3~400 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0407-B	1~230 V, 50 Hz	5	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0407-B-EMSC	1~230 V, 50 Hz	5	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0407-B	3~400 V, 50 Hz	5	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B	1~230 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B-EMSC	1~230 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B	3~400 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B	1~230 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B-EMSC	1~230 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B	3~400 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0420-B	1~230 V, 50 Hz	5	124	50	3 °C ... 30 °C	0.1	B	IP 68	200	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Pumps and systems for domestic water supply

Single pumps



Materials

Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
TWU 3-0115	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0115	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0123	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0123	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0130	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0130	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 3-0145	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0207-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0207-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0210-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0210-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0214-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0214-C	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0227-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0227-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0227-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0232-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0232-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0232-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0246-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0246-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0246-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0260-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0260-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0260-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0405-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0405-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0405-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0407-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0407-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0407-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0410-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0410-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0410-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0415-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0415-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0415-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0420-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–

Pumps and systems for domestic water supply

Single pumps

Technical data

Wilo-Sub...	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	–	Q	H	ρ	–	v	–			
	–	[m³/h]	[m]	[g/m³]	–	[m/s]	–		[m]	[1/h]
TWU 4-0420-B-EMSC	1~230 V, 50 Hz	5	124	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0420-B	3~400 V, 50 Hz	5	124	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0430-B	1~230 V, 50 Hz	5	182	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0430-B-EMSC	1~230 V, 50 Hz	5	182	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0430-B	3~400 V, 50 Hz	5	182	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0440-B	3~400 V, 50 Hz	5	242	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0445-B	3~400 V, 50 Hz	5	273	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0450-B	3~400 V, 50 Hz	5	303	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0804-B	1~230 V, 50 Hz	12	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0804-B-EMSC	1~230 V, 50 Hz	12	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0804-B	3~400 V, 50 Hz	12	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0806-B	1~230 V, 50 Hz	12	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0806-B-EMSC	1~230 V, 50 Hz	12	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0806-B	3~400 V, 50 Hz	12	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0808-B	1~230 V, 50 Hz	12	57	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0808-B-EMSC	1~230 V, 50 Hz	12	57	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0808-B	3~400 V, 50 Hz	12	57	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0812-B	1~230 V, 50 Hz	12	83	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0812-B-EMSC	1~230 V, 50 Hz	12	83	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0812-B	3~400 V, 50 Hz	12	83	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0817-B	3~400 V, 50 Hz	12	119	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0820-B	3~400 V, 50 Hz	12	139	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0824-B	3~400 V, 50 Hz	12	169	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0830-B	3~400 V, 50 Hz	12	211	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1607-B	1~230 V, 50 Hz	22	40	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1607-B-EMSC	1~230 V, 50 Hz	12	40	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1607-B	3~400 V, 50 Hz	22	40	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1610-B	1~230 V, 50 Hz	22	56	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1610-B-EMSC	1~230 V, 50 Hz	12	56	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1610-B	3~400 V, 50 Hz	22	56	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1614-B	3~400 V, 50 Hz	22	76	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1619-B	3~400 V, 50 Hz	22	105	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1626-B	3~400 V, 50 Hz	22	138	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-1634-B	3~400 V, 50 Hz	22	180	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0207-C-QC	1~230 V, 50 Hz	2.5	46	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0207-C-QC	3~400 V, 50 Hz	2.5	46	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0210-C-QC	1~230 V, 50 Hz	2.5	68	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0210-C-QC	3~400 V, 50 Hz	2.5	68	50	3 °C ... 30 °C	0.1	B	IP 68	200	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Pumps and systems for domestic water supply

Single pumps



Materials

Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
TWU 4-0420-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0420-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0430-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0430-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0430-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0440-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0445-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0450-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0804-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0804-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0804-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0806-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0806-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0806-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0808-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0808-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0808-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0812-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0812-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0812-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0817-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0820-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0824-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0830-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1607-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1607-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1607-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1610-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1610-B-EMSC	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1610-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1614-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1619-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1626-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-1634-B	PC	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0207-C-QC	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0207-C-QC	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0210-C-QC	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–
TWU 4-0210-C-QC	Noryl	–	1.4301	–	1.4104	–	1.4301	–	1.4305	–

Pumps and systems for domestic water supply

Single pumps

Technical data

Wilo-Sub...	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	–	Q	H	ρ	–	v	–			
	–	[m³/h]	[m]	[g/m³]	–	[m/s]	–		[m]	[1/h]
TWU 4-0214-C-QC	1~230 V, 50 Hz	2.5	91	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0214-C-QC	3~400 V, 50 Hz	2.5	91	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0232-B-QC	1~230 V, 50 Hz	2.5	153	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0232-B-QC	3~400 V, 50 Hz	2.5	153	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0405-B-QC	3~400 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0407-B-QC	1~230 V, 50 Hz	5	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0407-B-QC	3~400 V, 50 Hz	5	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B-QC	1~230 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B-QC	3~400 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B-QC	1~230 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B-QC	3~400 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0420-B-QC	3~400 V, 50 Hz	5	124	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0430-B-QC	3~400 V, 50 Hz	5	182	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0804-B-QC	1~230 V, 50 Hz	12	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0804-B-QC	3~400 V, 50 Hz	12	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0806-B-QC	3~400 V, 50 Hz	12	42	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0812-B-QC	3~400 V, 50 Hz	12	83	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0817-B-QC	3~400 V, 50 Hz	12	119	50	3 °C ... 30 °C	0.1	B	IP 68	200	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Materials										
Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
	-									
	-									
TWU 4-0214-C-QC	Noryl	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0214-C-QC	Noryl	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0232-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0232-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0405-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0407-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0407-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0410-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0410-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0415-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0415-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0420-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0430-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0804-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0804-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0806-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0812-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0817-B-QC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-

Pumps and systems for domestic water supply

Single pumps

Technical data TWI 4 (1~230 V)

Wilo-Sub...	Type of motor	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	—	—	Q	H	ρ	—	v	—	—	—	—
	—	—	[m³/h]	[m]	[g/m³]	—	[m/s]	—	—	[m]	[1/h]
TWI 4.01-09-B	EM	1~230 V, 50 Hz	1.8	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-14-B	EM	1~230 V, 50 Hz	1.8	75	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-18-B	EM	1~230 V, 50 Hz	1.8	96	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-21-B	EM	1~230 V, 50 Hz	1.8	110	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-28-B	EM	1~230 V, 50 Hz	1.8	149	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-36-B	EM	1~230 V, 50 Hz	1.8	195	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-42-B	EM	1~230 V, 50 Hz	1.8	228	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-09-B	EM	1~230 V, 50 Hz	2.9	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-13-B	EM	1~230 V, 50 Hz	2.9	72	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-18-B	EM	1~230 V, 50 Hz	2.9	100	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-23-B	EM	1~230 V, 50 Hz	2.9	130	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-28-B	EM	1~230 V, 50 Hz	2.9	160	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-33-B	EM	1~230 V, 50 Hz	2.9	190	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-40-B	EM	1~230 V, 50 Hz	2.9	225	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-48-B	EM	1~230 V, 50 Hz	2.9	270	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-06-B	EM	1~230 V, 50 Hz	4.7	35	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-09-B	EM	1~230 V, 50 Hz	4.7	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-12-B	EM	1~230 V, 50 Hz	4.7	70	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-15-B	EM	1~230 V, 50 Hz	4.7	90	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-18-B	EM	1~230 V, 50 Hz	4.7	105	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-22-B	EM	1~230 V, 50 Hz	4.7	130	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-25-B	EM	1~230 V, 50 Hz	4.7	150	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-29-B	EM	1~230 V, 50 Hz	4.7	170	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-33-B	EM	1~230 V, 50 Hz	4.7	195	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-04-B	EM	1~230 V, 50 Hz	6.8	23	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-06-B	EM	1~230 V, 50 Hz	6.8	33	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-12-B	EM	1~230 V, 50 Hz	6.8	70	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-17-B	EM	1~230 V, 50 Hz	6.8	98	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-21-B	EM	1~230 V, 50 Hz	6.8	122	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-25-B	EM	1~230 V, 50 Hz	6.8	142	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-05-B	EM	1~230 V, 50 Hz	12.2	28	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-07-B	EM	1~230 V, 50 Hz	12.2	40	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-10-B	EM	1~230 V, 50 Hz	12.2	52	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-12-B	EM	1~230 V, 50 Hz	12.2	65	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-15-B	EM	1~230 V, 50 Hz	12.2	81	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-05-B	EM	1~230 V, 50 Hz	20.8	33	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-07-B	EM	1~230 V, 50 Hz	20.8	46	35	3 °C ... 30 °C	0.1	B	IP 68	350	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Pumps and systems for domestic water supply

Single pumps



Materials TWI 4 (1~230 V)

Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
TWI 4.01-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-14-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-21-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-28-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-36-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-42-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-13-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-23-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-28-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-33-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-40-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-48-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-06-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-15-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-22-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-29-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-33-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-04-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-06-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-17-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-21-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-05-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-07-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-10-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-15-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.14-05-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.14-07-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542

Pumps and systems for domestic water supply

Single pumps

Technical data TWI 4 (3~400 V)

Wilo-Sub...	Type of motor	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	–	–	Q	H	ρ	–	v	–	–	–	–
	–	–	[m³/h]	[m]	[g/m³]	–	[m/s]	–	–	[m]	[1/h]
TWI 4.01-09-B	DM	3~400 V, 50 Hz	1.8	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-14-B	DM	3~400 V, 50 Hz	1.8	75	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-18-B	DM	3~400 V, 50 Hz	1.8	96	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-21-B	DM	3~400 V, 50 Hz	1.8	110	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-28-B	DM	3~400 V, 50 Hz	1.8	149	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-36-B	DM	3~400 V, 50 Hz	1.8	195	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.01-42-B	DM	3~400 V, 50 Hz	1.8	228	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-09-B	DM	3~400 V, 50 Hz	2.9	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-13-B	DM	3~400 V, 50 Hz	2.9	72	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-18-B	DM	3~400 V, 50 Hz	2.9	100	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-23-B	DM	3~400 V, 50 Hz	2.9	130	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-28-B	DM	3~400 V, 50 Hz	2.9	160	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-33-B	DM	3~400 V, 50 Hz	2.9	190	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-40-B	DM	3~400 V, 50 Hz	2.9	225	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.02-48-B	DM	3~400 V, 50 Hz	2.9	270	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-06-B	DM	3~400 V, 50 Hz	4.7	35	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-09-B	DM	3~400 V, 50 Hz	4.7	50	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-12-B	DM	3~400 V, 50 Hz	4.7	70	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-15-B	DM	3~400 V, 50 Hz	4.7	90	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-18-B	DM	3~400 V, 50 Hz	4.7	105	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-22-B	DM	3~400 V, 50 Hz	4.7	130	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-25-B	DM	3~400 V, 50 Hz	4.7	150	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-29-B	DM	3~400 V, 50 Hz	4.7	170	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-33-B	DM	3~400 V, 50 Hz	4.7	195	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-39-B	DM	3~400 V, 50 Hz	4.7	235	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-45-B	DM	3~400 V, 50 Hz	4.7	270	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.03-52-B	DM	3~400 V, 50 Hz	4.7	315	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-04-B	DM	3~400 V, 50 Hz	6.8	23	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-06-B	DM	3~400 V, 50 Hz	6.8	33	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-08-B	DM	3~400 V, 50 Hz	6.8	48	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-12-B	DM	3~400 V, 50 Hz	6.8	70	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-17-B	DM	3~400 V, 50 Hz	6.8	98	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-21-B	DM	3~400 V, 50 Hz	6.8	122	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-25-B	DM	3~400 V, 50 Hz	6.8	142	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-33-B	DM	3~400 V, 50 Hz	6.8	190	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-38-B	DM	3~400 V, 50 Hz	6.8	220	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.05-44-B	DM	3~400 V, 50 Hz	6.8	253	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-05-B	DM	3~400 V, 50 Hz	12.2	28	35	3 °C ... 30 °C	0.1	B	IP 68	350	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Pumps and systems for domestic water supply

Single pumps



Materials TWI 4 (3~400 V)

Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
TWI 4.01-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-14-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-21-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-28-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-36-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.01-42-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-13-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-23-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-28-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-33-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-40-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.02-48-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-06-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-09-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-15-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-22-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-29-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-33-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-39-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-45-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.03-52-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.05-04-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-06-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-08-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-17-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-21-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-33-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.05-38-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.05-44-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.09-05-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542

Pumps and systems for domestic water supply

Single pumps

Technical data TWI 4 (3~400 V)

Wilo-Sub...	Type of motor	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	—	—	Q	H	ρ	—	v	—			
	—	—	[m³/h]	[m]	[g/m³]	—	[m/s]	—		[m]	[1/h]
TWI 4.09-07-B	DM	3~400 V, 50 Hz	12.2	40	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-10-B	DM	3~400 V, 50 Hz	12.2	52	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-12-B	DM	3~400 V, 50 Hz	12.2	65	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-15-B	DM	3~400 V, 50 Hz	12.2	81	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-18-B	DM	3~400 V, 50 Hz	12.2	98	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-21-B	DM	3~400 V, 50 Hz	12.2	113	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-25-B	DM	3~400 V, 50 Hz	12.2	132	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-30-B	DM	3~400 V, 50 Hz	12.2	165	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.09-37-B	DM	3~400 V, 50 Hz	12.2	202	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-05-B	DM	3~400 V, 50 Hz	20.8	33	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-07-B	DM	3~400 V, 50 Hz	20.8	46	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-10-B	DM	3~400 V, 50 Hz	20.8	63	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-13-B	DM	3~400 V, 50 Hz	20.8	81	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-18-B	DM	3~400 V, 50 Hz	20.8	112	35	3 °C ... 30 °C	0.1	B	IP 68	350	20
TWI 4.14-25-B	DM	3~400 V, 50 Hz	20.8	159	35	3 °C ... 30 °C	0.1	B	IP 68	350	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Pumps and systems for domestic water supply

Single pumps



Materials TWI 4 (3~400 V)

Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
	-									
	-									
TWI 4.09-07-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-10-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-12-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-15-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.09-21-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.09-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.09-30-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.09-37-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.14-05-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.14-07-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.14-10-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4542
TWI 4.14-13-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.14-18-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460
TWI 4.14-25-B	1.4301	1.4571	1.4301	1.4401	1.4057	1.4401	1.4301	1.4401	1.4305	1.4460

Pumps and systems for domestic water supply

Single pumps

Series description Wilo-Sub TWU 3



Design

Submersible pump, multistage

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

Application

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

Special features/product advantages

- Motor with rewindable stator
- 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
- Submerged operating mode: S1
- Fluid temperature: 3–40 °C
- Minimum flow at the motor: 0.08 m/s
- Max. sand content: 40 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 60 m
- Protection class: IP 58
- Pressure port: Rp 1

Equipment/function

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

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Polycarbonate
- Hydraulic 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

Multistage submersible pump with radial impellers in sectional design. Integrated non-return valve. All parts that come 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 stator, oil-filled, self-lubricating bearing.

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Options

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

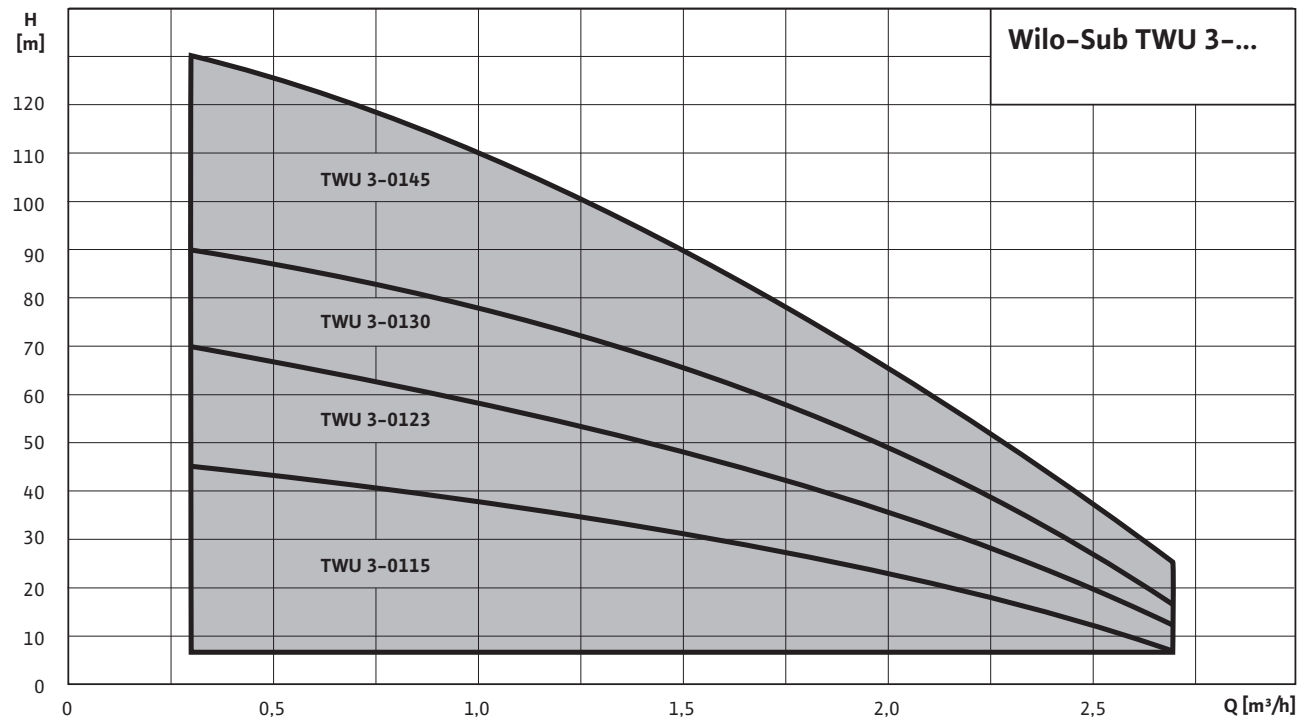
Scope of delivery

- Hydraulic unit + motor completely assembled
- 1.8 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- Installation and operating instructions

Accessories

- Cooling jacket pipes
- Diaphragm pressure vessel
- Cable kits for potable water and process water
- Float switch
- Switchgears
- Connection and installation material

Series description Wilo-Sub TWU 3

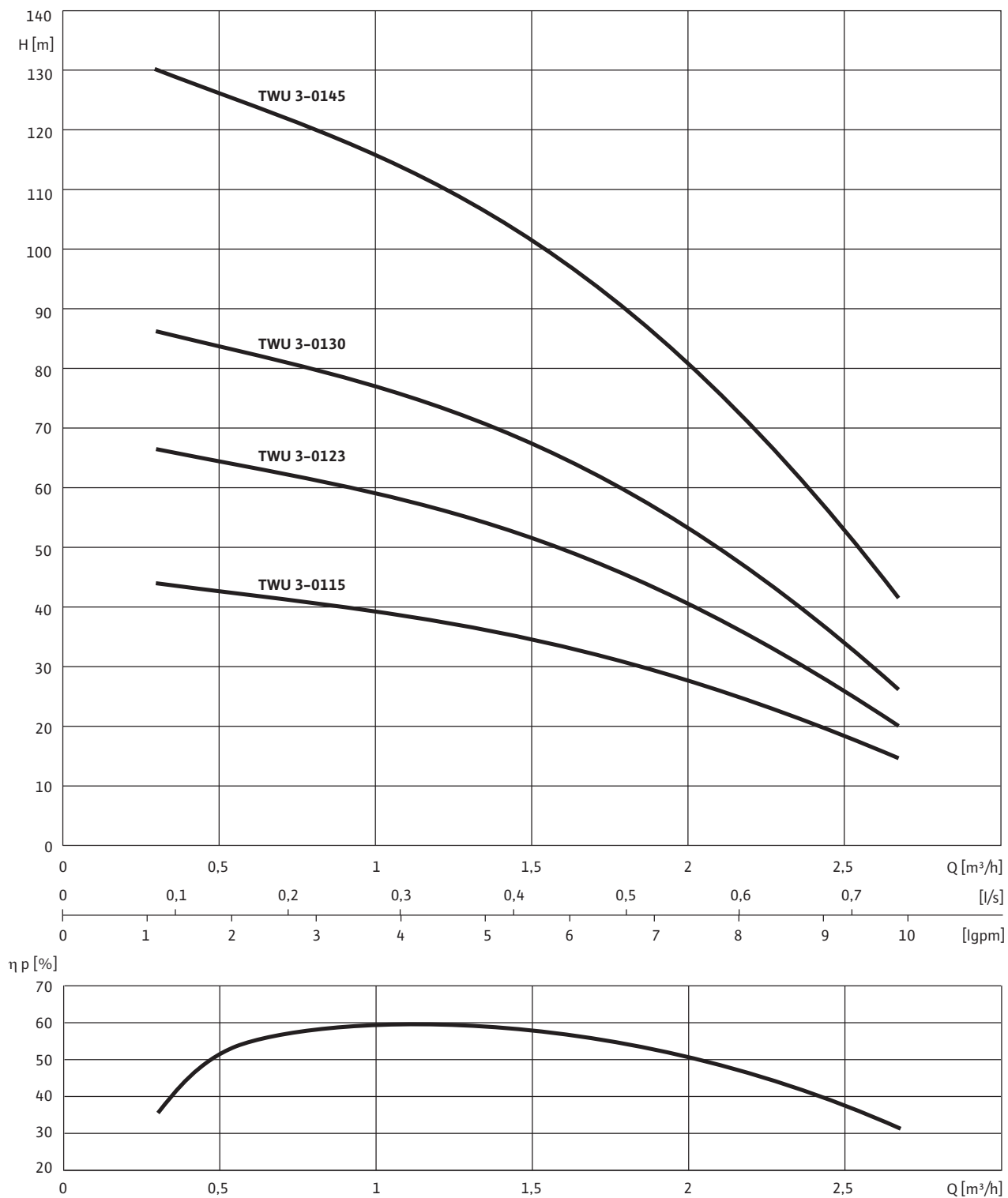


Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 3-01..

Pump curves Wilo-Sub TWU 3-01..



1~230 V or 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

Wilo-Sub TWU 3-01..

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWU 3-0115	1~230 V, 50 Hz	3	0.37	3.75	1.8	4x1.5
TWU 3-0115	3~400 V, 50 Hz	3	0.37	2	1.8	4x1.5
TWU 3-0123	1~230 V, 50 Hz	3	0.55	4.5	1.8	4x1.5
TWU 3-0123	3~400 V, 50 Hz	3	0.55	2.1	1.8	4x1.5
TWU 3-0130	1~230 V, 50 Hz	3	0.75	5.85	1.8	4x1.5
TWU 3-0130	3~400 V, 50 Hz	3	0.75	2.5	1.8	4x1.5
TWU 3-0145	3~400 V, 50 Hz	3	1.1	3.2	1.8	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–			for vertical installation (B)	for horizontal installation (D)
	–				
TWU 3-0115	1~230 V, 50 Hz	L	4090889	4092485	4092485 + 4092486
TWU 3-0115	3~400 V, 50 Hz	L	4090892	4092485	4092485 + 4092486
TWU 3-0123	1~230 V, 50 Hz	L	4090890	4092485	4092485 + 4092486
TWU 3-0123	3~400 V, 50 Hz	L	4090893	4092485	4092485 + 4092486
TWU 3-0130	1~230 V, 50 Hz	L	4090891	4092485	4092485 + 4092486
TWU 3-0130	3~400 V, 50 Hz	L	4090894	4092485	4092485 + 4092486
TWU 3-0145	3~400 V, 50 Hz	L	4090895	4092485	4092485 + 4092486

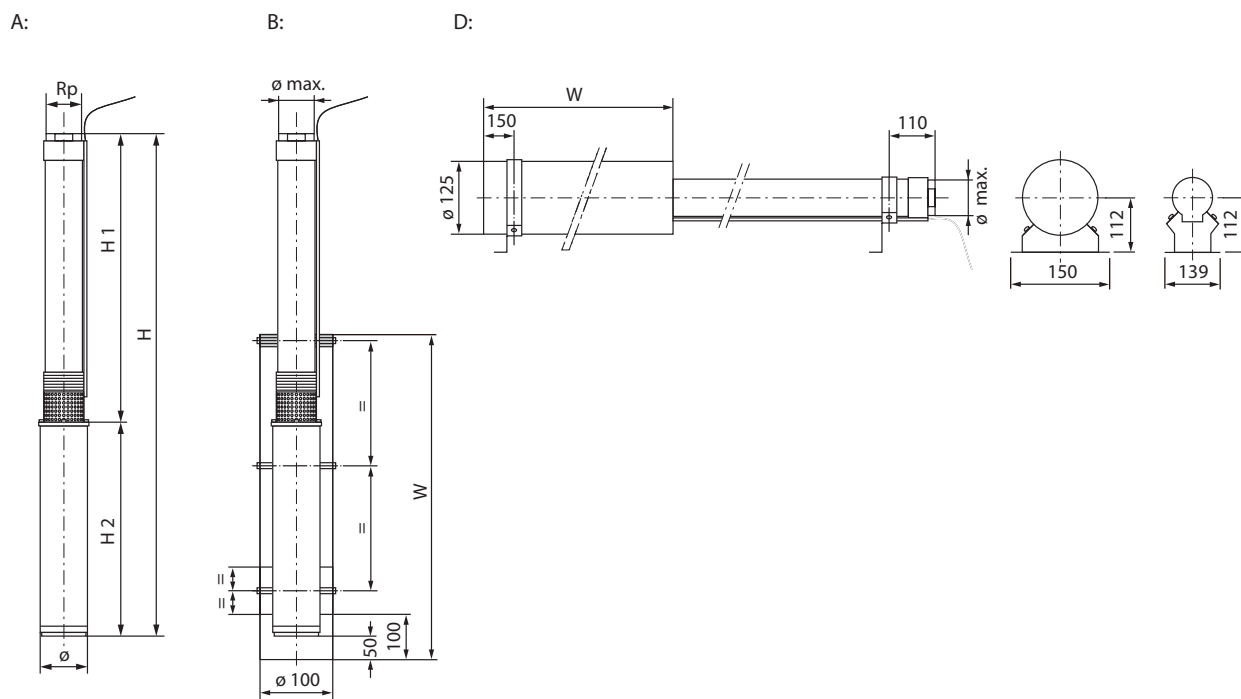
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 3-01..

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 3-0115	1~230 V, 50 Hz	Rp 1	957	580	377	500	74	A, B, D	9.3
TWU 3-0115	3~400 V, 50 Hz	Rp 1	957	580	377	500	74	A, B, D	9.3
TWU 3-0123	1~230 V, 50 Hz	Rp 1	1177	780	397	500	74	A, B, D	10.8
TWU 3-0123	3~400 V, 50 Hz	Rp 1	1157	780	377	500	74	A, B, D	10.5
TWU 3-0130	1~230 V, 50 Hz	Rp 1	1416	1000	416	500	74	A, B, D	12.4
TWU 3-0130	3~400 V, 50 Hz	Rp 1	1397	1000	397	500	74	A, B, D	12
TWU 3-0145	3~400 V, 50 Hz	Rp 1	1796	1380	416	500	74	A, B, D	14.4

³⁾ For power cable to I_N, max. Ø for threaded connection

Series description Wilo-Sub TWU 4



Design

Submersible pump, multistage

Type key

e.g. **Wilo-Sub TWU 4-0804-B-EMSC**

TWU	Submersible pump
4	Diameter of the hydraulic unit in inches [""]
08	Nominal volume flow [m ³ /h]
04	Number of hydraulic stages
B	Series generation
EMSC	Single-phase motor with additional starting capacitor

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 fibrous and abrasive constituents

Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Integrated non-return valve
- Vertical and horizontal installation possible

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–30 °C
- Minimum flow at the motor: 0.08 m/s
- Max. sand content: 50 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 200 m
- Protection class: IP 68
- Pressure port: Rp 1¼ – Rp 2

Equipment/function

- Multistage submersible pump with radial or semi-axial impellers
- Motor with hermetically cast stator
- Integrated non-return valve

- NEMA coupling
- Single-phase or three-phase motor
- Integrated thermal motor protection for single-phase motor

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Polycarbonate or Noryl (C generation)
- Hydraulic 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

Multistage submersible pump with radial (TWU 4-02... and TWU 4-04...) or semi-axial (TWU 4-08... and TWU 4-16...) impellers in sectional design. Integrated non-return valve. All parts that come 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 stator with enamel-insulated winding, resin-impregnated, self-lubricating bearing, with water-glycol filling.

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Options

- Single-phase motor without soft starter, with integrated lightning and overload protection for 1~230 V, 50 Hz and 1~230 V, 60 Hz
- Motor version for 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

Scope of delivery

- Hydraulic unit + motor completely assembled
- 1.5/2.5/4.0 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- EMSC version with additional starting capacitor
- Installation and operating instructions

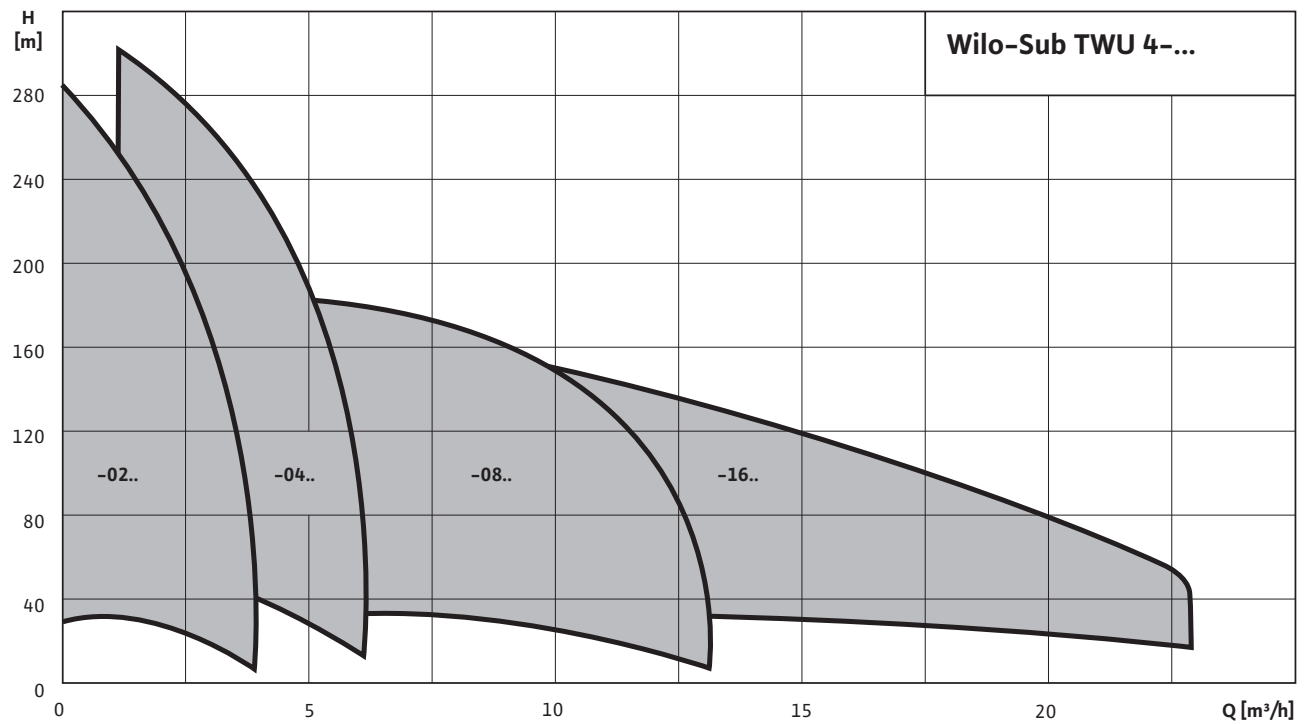
Accessories

- Cooling jacket pipes
- Diaphragm pressure vessel
- Cable kits for potable water and process water
- Float switch
- Switchgears
- Connection and installation material

Pumps and systems for domestic water supply

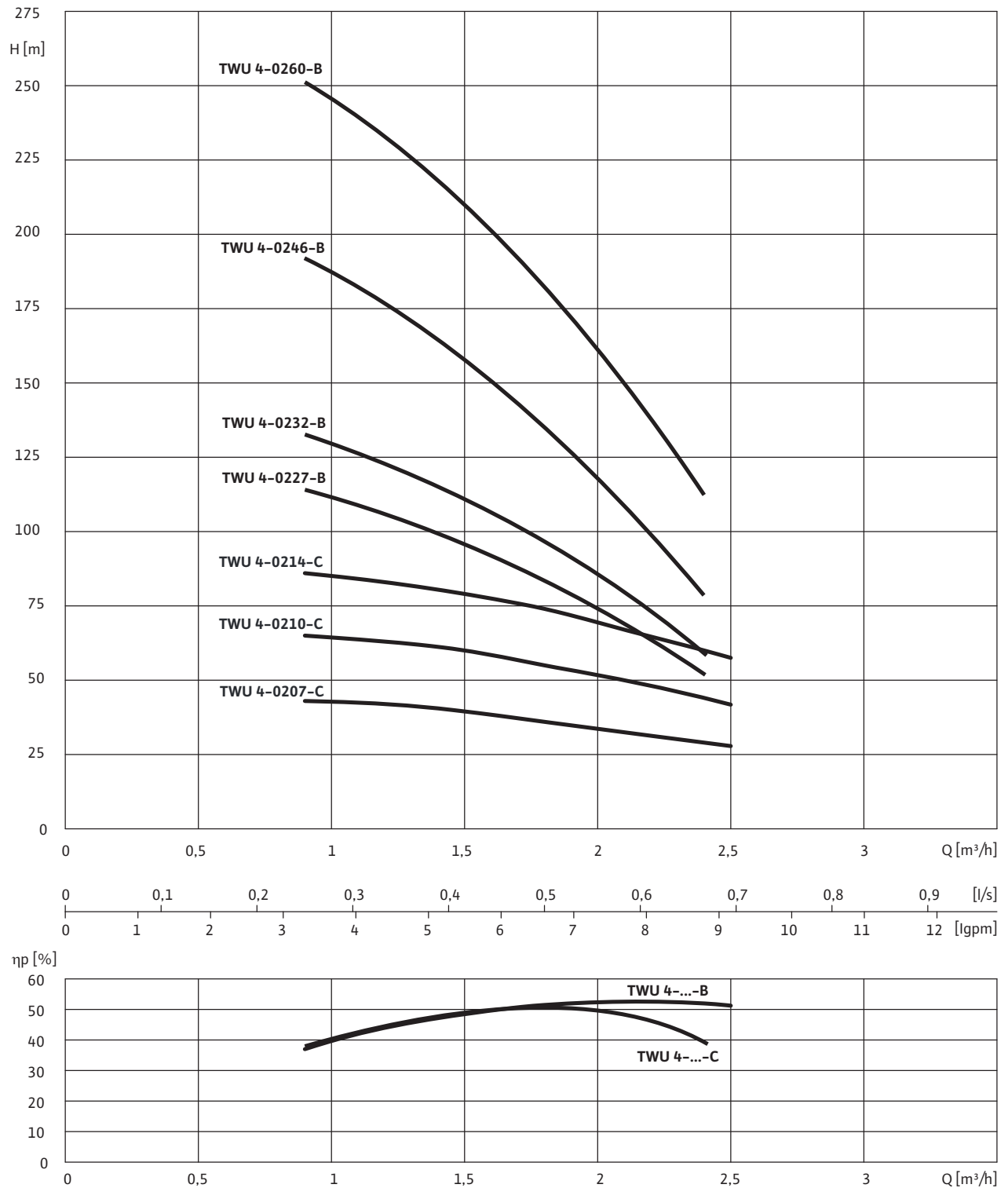
Single pumps

Series description Wilo-Sub TWU 4



Wilo-Sub TWU 4-02...-B/-C

Pump curves Wilo-Sub TWU 4-02...-B/-C



1~230 V or 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

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-02..-B/-C

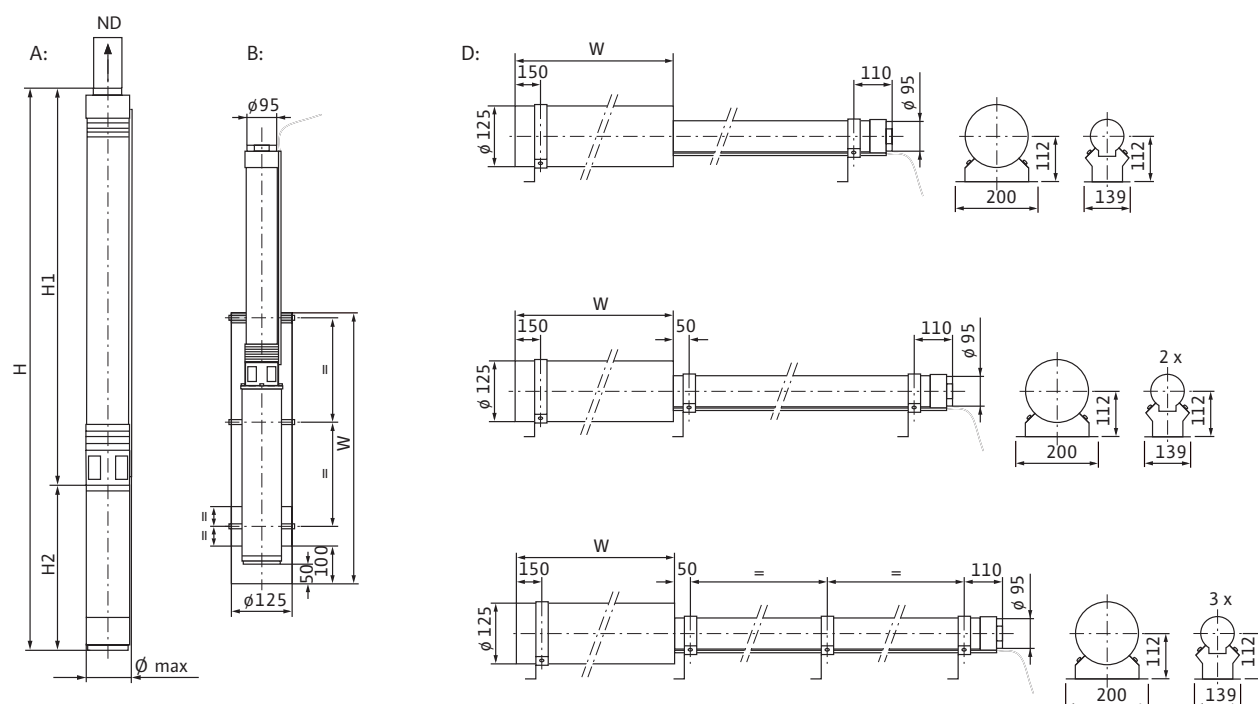
Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0207-C	1~230 V, 50 Hz	4	0.37	3.4	1.5	4x1.5
TWU 4-0207-C	3~400 V, 50 Hz	4	0.37	1.2	1.5	4x1.5
TWU 4-0210-C	1~230 V, 50 Hz	4	0.55	4.4	1.5	4x1.5
TWU 4-0210-C	3~400 V, 50 Hz	4	0.55	1.7	1.5	4x1.5
TWU 4-0214-C	1~230 V, 50 Hz	4	0.75	5.9	1.5	4x1.5
TWU 4-0214-C	3~400 V, 50 Hz	4	0.75	2.2	1.5	4x1.5
TWU 4-0227-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0227-B-EMSC	1~230 V, 50 Hz	4	1.1	8.9	1.5	4x1.5
TWU 4-0227-B	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0232-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0232-B-EMSC	1~230 V, 50 Hz	4	1.1	8.9	1.5	4x1.5
TWU 4-0232-B	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0246-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4x1.5
TWU 4-0246-B-EMSC	1~230 V, 50 Hz	4	1.5	11.1	1.5	4x1.5
TWU 4-0246-B	3~400 V, 50 Hz	4	1.5	4	1.5	4x1.5
TWU 4-0260-B	1~230 V, 50 Hz	4	2.2	15.5	2.5	4x1.5
TWU 4-0260-B-EMSC	1~230 V, 50 Hz	4	2.2	15.9	2.5	4x1.5
TWU 4-0260-B	3~400 V, 50 Hz	4	2.2	5.9	2.5	4x1.5

Ordering information					
Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–			for vertical installation (B)	for horizontal installation (D)
	–				
TWU 4-0207-C	1~230 V, 50 Hz	L	6046661	4064430	6037935 + 4073928
TWU 4-0207-C	3~400 V, 50 Hz	L	6046688	4064430	6037935 + 4073928
TWU 4-0210-C	1~230 V, 50 Hz	L	6046690	4064430	6037935 + 4073928
TWU 4-0210-C	3~400 V, 50 Hz	L	6046687	4064430	6037935 + 4073928
TWU 4-0214-C	1~230 V, 50 Hz	L	6046689	4064430	6037935 + 4073928
TWU 4-0214-C	3~400 V, 50 Hz	L	6046686	4064430	6037935 + 4073928
TWU 4-0227-B	1~230 V, 50 Hz	L	4093181	4064430	4064430 + 4065892
TWU 4-0227-B-EMSC	1~230 V, 50 Hz	L	4093200	4064431	4064431 + 4065892
TWU 4-0227-B	3~400 V, 50 Hz	L	4093146	4064430	4064430 + 4065892
TWU 4-0232-B	1~230 V, 50 Hz	L	4093182	4064430	4064430 + 4065892
TWU 4-0232-B-EMSC	1~230 V, 50 Hz	L	4093201	4064431	4064431 + 4065892
TWU 4-0232-B	3~400 V, 50 Hz	L	4093147	4064430	4064430 + 4065892
TWU 4-0246-B	1~230 V, 50 Hz	L	4093183	4064430	4064430 + 4065892
TWU 4-0246-B-EMSC	1~230 V, 50 Hz	L	4093202	4064431	4064431 + 4065892
TWU 4-0246-B	3~400 V, 50 Hz	L	4093148	4064430	4064430 + 4065892
TWU 4-0260-B	1~230 V, 50 Hz	L	4093184	4064431	4064431 + 4065892
TWU 4-0260-B-EMSC	1~230 V, 50 Hz	L	4093203	4064431	4064431 + 4065892
TWU 4-0260-B	3~400 V, 50 Hz	L	4093149	4064430	4064430 + 4065892

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Wilo-Sub TWU 4-02..-B/-C

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-0207-C	1~230 V, 50 Hz	Rp 1¼	521	271	250	500	98	A, B, D	9.6
TWU 4-0207-C	3~400 V, 50 Hz	Rp 1¼	506	271	235	500	98	A, B, D	8.6
TWU 4-0210-C	1~230 V, 50 Hz	Rp 1¼	589	324	265	500	98	A, B, D	11.4
TWU 4-0210-C	3~400 V, 50 Hz	Rp 1¼	574	324	250	500	98	A, B, D	10.3
TWU 4-0214-C	1~230 V, 50 Hz	Rp 1¼	689	394	295	500	98	A, B, D	12.2
TWU 4-0214-C	3~400 V, 50 Hz	Rp 1¼	659	394	265	500	98	A, B, D	12.2
TWU 4-0227-B	1~230 V, 50 Hz	Rp 1¼	1133	806	327	500	98	A, B, D	17.1
TWU 4-0227-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1105	806	327	750	98	A, B, D	17.1
TWU 4-0227-B	3~400 V, 50 Hz	Rp 1¼	1105	806	299	500	98	A, B, D	16
TWU 4-0232-B	1~230 V, 50 Hz	Rp 1¼	1227	900	327	500	98	A, B, D	18.1
TWU 4-0232-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1199	900	327	750	98	A, B, D	18.1
TWU 4-0232-B	3~400 V, 50 Hz	Rp 1¼	1199	900	299	500	98	A, B, D	16.8
TWU 4-0246-B	1~230 V, 50 Hz	Rp 1¼	1531	1175	356	500	98	A, B, D	21.4
TWU 4-0246-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1502	1175	356	750	98	A, B, D	21.4
TWU 4-0246-B	3~400 V, 50 Hz	Rp 1¼	1502	1175	327	500	98	A, B, D	20
TWU 4-0260-B	1~230 V, 50 Hz	Rp 1¼	1956	1495	461	750	98	A, B, D	28
TWU 4-0260-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1851	1495	461	750	98	A, B, D	28
TWU 4-0260-B	3~400 V, 50 Hz	Rp 1¼	1851	1495	356	500	98	A, B, D	23.5

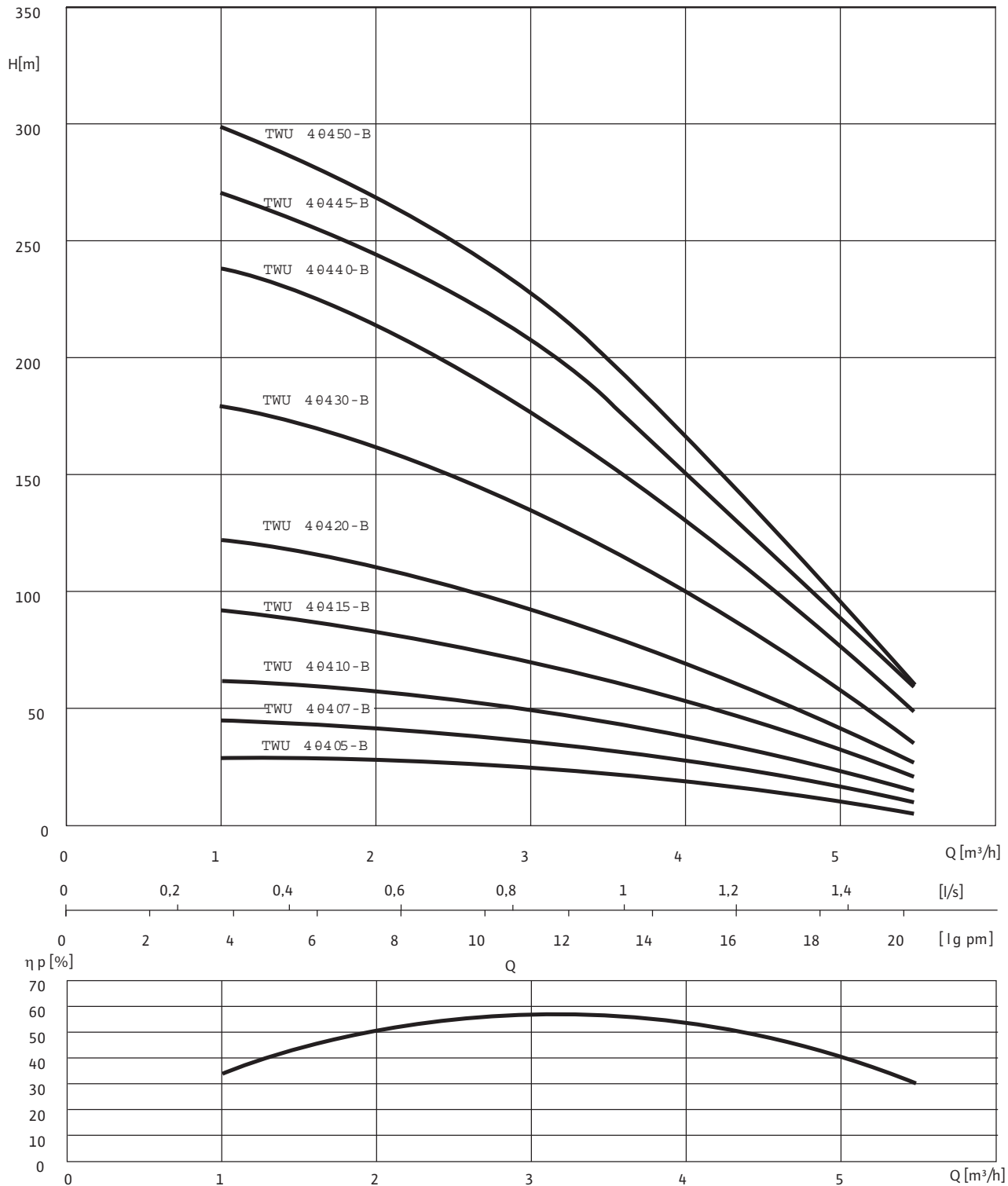
³⁾ For power cable to I_N, max. Ø for threaded connection

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-04 ..-B

Pump curves Wilo-Sub TWU 4-04..-B



1~230 V or 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

Wilo-Sub TWU 4-04 ..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	—	Ø	P ₂	I _N	L	—
	—	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0405-B	1~230 V, 50 Hz	4	0.37	3.4	1.5	4x1.5
TWU 4-0405-B-EMSC	1~230 V, 50 Hz	4	0.37	4	1.5	4x1.5
TWU 4-0405-B	3~400 V, 50 Hz	4	0.37	1.1	1.5	4x1.5
TWU 4-0407-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4x1.5
TWU 4-0407-B-EMSC	1~230 V, 50 Hz	4	0.55	6	1.5	4x1.5
TWU 4-0407-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4x1.5
TWU 4-0410-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4x1.5
TWU 4-0410-B-EMSC	1~230 V, 50 Hz	4	0.75	7.3	1.5	4x1.5
TWU 4-0410-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4x1.5
TWU 4-0415-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0415-B-EMSC	1~230 V, 50 Hz	4	1.1	8.9	1.5	4x1.5
TWU 4-0415-B	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0420-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4x1.5
TWU 4-0420-B-EMSC	1~230 V, 50 Hz	4	1.5	11.1	1.5	4x1.5
TWU 4-0420-B	3~400 V, 50 Hz	4	1.5	4	1.5	4x1.5
TWU 4-0430-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4x1.5
TWU 4-0430-B-EMSC	1~230 V, 50 Hz	4	2.2	15.9	1.5	4x1.5
TWU 4-0430-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4x1.5
TWU 4-0440-B	3~400 V, 50 Hz	4	3	7.8	2.5	4x1.5
TWU 4-0445-B	3~400 V, 50 Hz	4	4	10	2.5	4x1.5
TWU 4-0450-B	3~400 V, 50 Hz	4	4	10	2.5	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—	—	—	for vertical installation (B)	for horizontal installation (D)
	—	—	—	—	—
TWU 4-0405-B	1~230 V, 50 Hz	L	4093185	4064430	4064430 + 4065891
TWU 4-0405-B-EMSC	1~230 V, 50 Hz	L	4093204	4064430	4064430 + 4065891
TWU 4-0405-B	3~400 V, 50 Hz	L	4093150	4064430	4064430 + 4065891
TWU 4-0407-B	1~230 V, 50 Hz	L	4093186	4064430	4064430 + 4065891
TWU 4-0407-B-EMSC	1~230 V, 50 Hz	L	4093205	4064430	4064430 + 4065891
TWU 4-0407-B	3~400 V, 50 Hz	L	4093151	4064430	4064430 + 4065891
TWU 4-0410-B	1~230 V, 50 Hz	L	4093187	4064430	4064430 + 4065891
TWU 4-0410-B-EMSC	1~230 V, 50 Hz	L	4093206	4064430	4064430 + 4065891
TWU 4-0410-B	3~400 V, 50 Hz	L	4093152	4064430	4064430 + 4065892
TWU 4-0415-B	1~230 V, 50 Hz	L	4093188	4064430	4064430 + 4065891
TWU 4-0415-B-EMSC	1~230 V, 50 Hz	L	4093207	4064431	4064431 + 4065892
TWU 4-0415-B	3~400 V, 50 Hz	L	4093153	4064430	4064430 + 4065892
TWU 4-0420-B	1~230 V, 50 Hz	L	4093189	4064431	4064431 + 4065892
TWU 4-0420-B-EMSC	1~230 V, 50 Hz	L	4093208	4064431	4064431 + 4065892
TWU 4-0420-B	3~400 V, 50 Hz	L	4093154	4064430	4064430 + 4065892

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

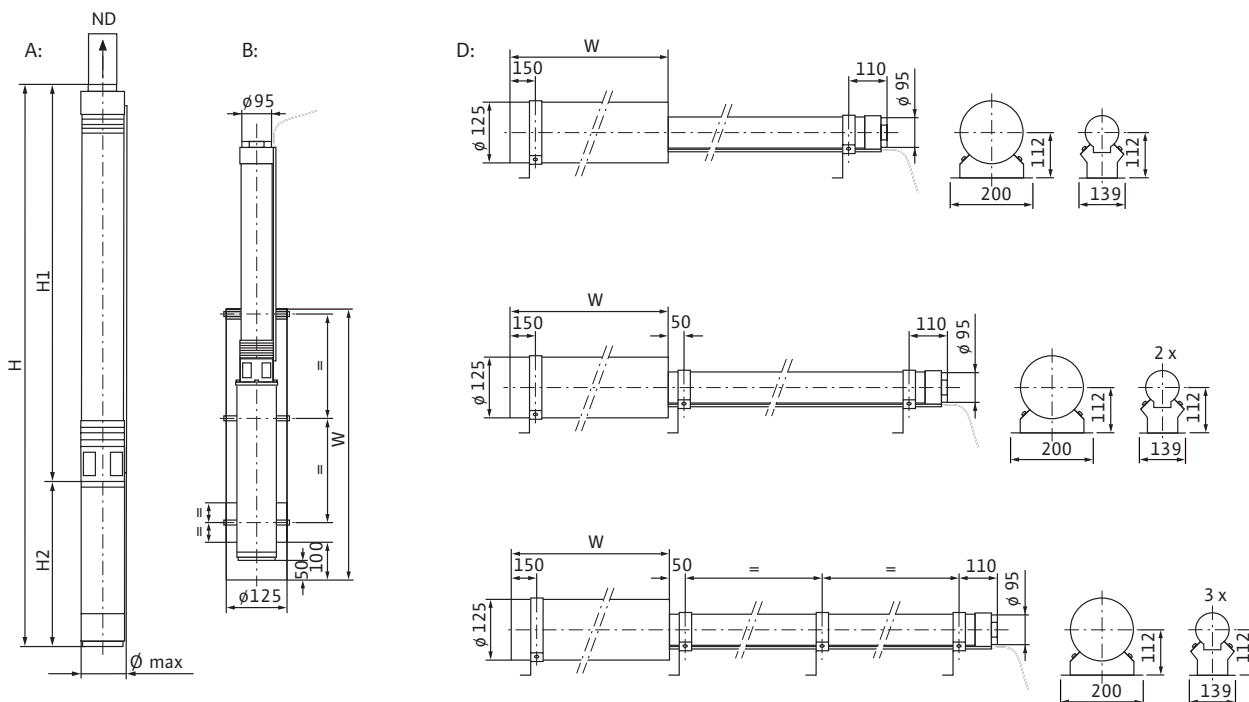
Wilo-Sub TWU 4-04 ..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
				for vertical installation (B)	for horizontal installation (D)
				—	—
TWU 4-0430-B	1~230 V, 50 Hz	L	4093190	4064431	4064431 + 4065892
TWU 4-0430-B-EMSC	1~230 V, 50 Hz	L	4093209	4064431	4064431 + 4065892
TWU 4-0430-B	3~400 V, 50 Hz	L	4093155	4064430	4064430 + 4065892
TWU 4-0440-B	3~400 V, 50 Hz	L	4093156	4064431	4064431 + 4065892
TWU 4-0445-B	3~400 V, 50 Hz	L	4093157	4064431	4064431 + 4065893
TWU 4-0450-B	3~400 V, 50 Hz	L	4093158	4064431	4064431 + 4065893

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-0405-B	1~230 V, 50 Hz	Rp 1½	672	430	242	500	98	A, B, D	11.5
TWU 4-0405-B-EMSC	1~230 V, 50 Hz	Rp 1½	653	430	242	500	98	A, B, D	11.5
TWU 4-0405-B	3~400 V, 50 Hz	Rp 1½	653	430	223	500	98	A, B, D	10.5
TWU 4-0407-B	1~230 V, 50 Hz	Rp 1½	766	495	271	500	98	A, B, D	13.2
TWU 4-0407-B-EMSC	1~230 V, 50 Hz	Rp 1½	737	495	271	500	98	A, B, D	13.2
TWU 4-0407-B	3~400 V, 50 Hz	Rp 1½	737	495	242	500	98	A, B, D	11.9
TWU 4-0410-B	1~230 V, 50 Hz	Rp 1½	889	590	299	500	98	A, B, D	15

Wilo-Sub TWU 4-04 ..-B

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	–		H	H ₁	H ₂	W	Ø ³⁾	–	Unit
	–		[mm]					–	[kg]
TWU 4-0410-B-EMSC	1~230 V, 50 Hz	Rp 1¼	861	590	299	500	98	A, B, D	15
TWU 4-0410-B	3~400 V, 50 Hz	Rp 1¼	861	590	271	500	98	A, B, D	13.8
TWU 4-0415-B	1~230 V, 50 Hz	Rp 1¼	1077	750	327	500	98	A, B, D	17.4
TWU 4-0415-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1049	750	327	750	98	A, B, D	17.4
TWU 4-0415-B	3~400 V, 50 Hz	Rp 1¼	1049	750	299	500	98	A, B, D	16.1
TWU 4-0420-B	1~230 V, 50 Hz	Rp 1¼	1271	915	356	750	98	A, B, D	19.9
TWU 4-0420-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1242	915	356	750	98	A, B, D	19.9
TWU 4-0420-B	3~400 V, 50 Hz	Rp 1¼	1242	915	327	500	98	A, B, D	18.5
TWU 4-0430-B	1~230 V, 50 Hz	Rp 1¼	1696	1235	461	750	98	A, B, D	26.6
TWU 4-0430-B-EMSC	1~230 V, 50 Hz	Rp 1¼	1591	1235	461	750	98	A, B, D	26.6
TWU 4-0430-B	3~400 V, 50 Hz	Rp 1¼	1591	1235	356	500	98	A, B, D	22.1
TWU 4-0440-B	3~400 V, 50 Hz	Rp 1¼	1978	1555	423	750	98	A, B, D	26.8
TWU 4-0445-B	3~400 V, 50 Hz	Rp 1¼	2323	1740	583	750	98	A, B, D	34.7
TWU 4-0450-B	3~400 V, 50 Hz	Rp 1¼	2503	1920	583	750	98	A, B, D	35.4

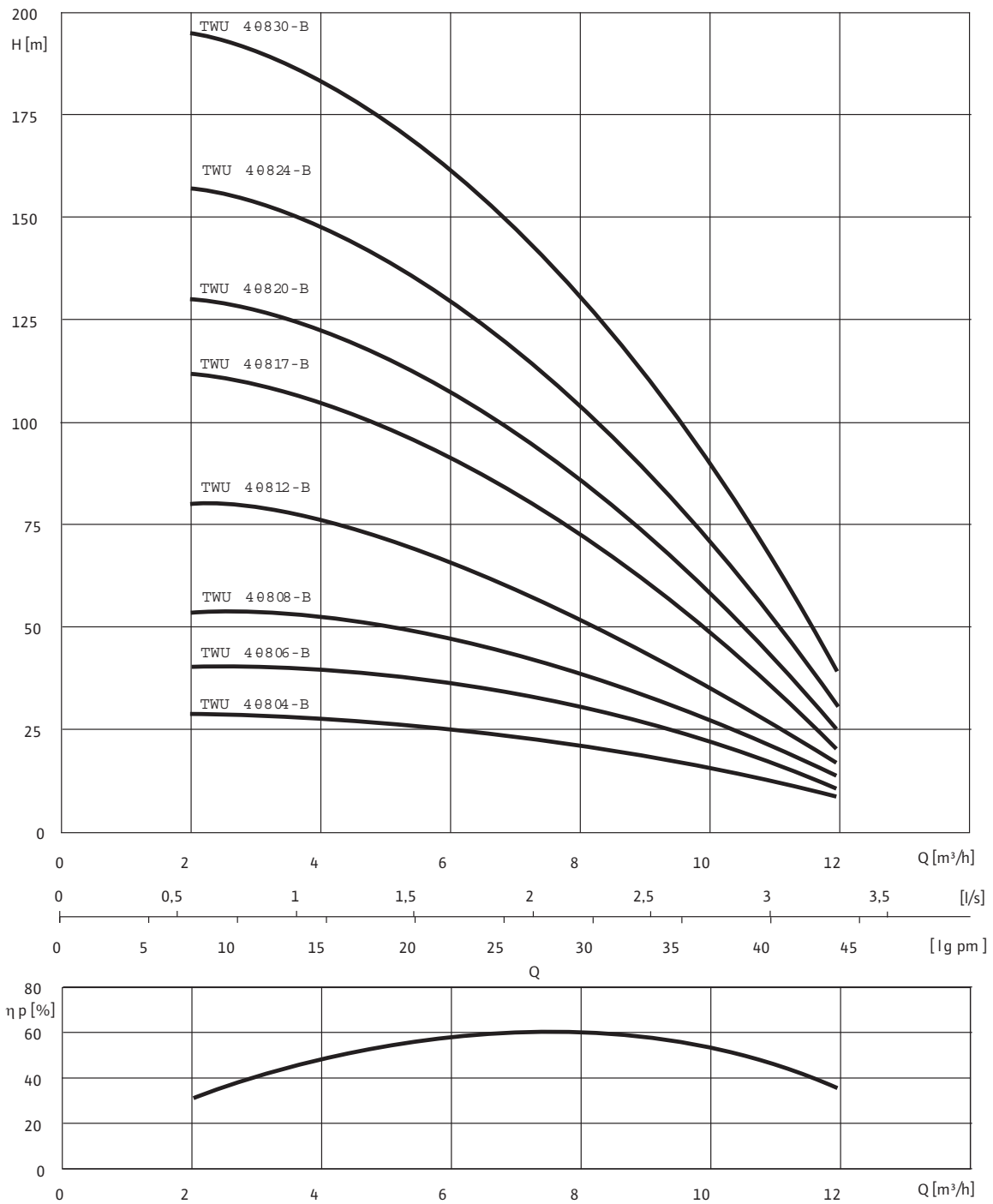
³⁾ For power cable to I_N, max. Ø for threaded connection

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-08 ..-B

Pump curves Wilo-Sub TWU 4-08..-B



1~230 V or 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

Wilo-Sub TWU 4-08 ..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	—	Ø	P ₂	I _N	L	—
	—	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0804-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4x1.5
TWU 4-0804-B-EMSC	1~230 V, 50 Hz	4	0.75	7.3	1.5	4x1.5
TWU 4-0804-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4x1.5
TWU 4-0806-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0806-B-EMSC	1~230 V, 50 Hz	4	1.1	8.9	1.5	4x1.5
TWU 4-0806-B	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0808-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4x1.5
TWU 4-0808-B-EMSC	1~230 V, 50 Hz	4	1.5	11.1	1.5	4x1.5
TWU 4-0808-B	3~400 V, 50 Hz	4	1.5	4	1.5	4x1.5
TWU 4-0812-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4x1.5
TWU 4-0812-B-EMSC	1~230 V, 50 Hz	4	2.2	15.9	1.5	4x1.5
TWU 4-0812-B	3~400 V, 50 Hz	4	2.2	5.9	2.5	4x1.5
TWU 4-0817-B	3~400 V, 50 Hz	4	3	7.8	1.5	4x1.5
TWU 4-0820-B	3~400 V, 50 Hz	4	3.7	9.1	2.5	4x1.5
TWU 4-0824-B	3~400 V, 50 Hz	4	4	10	2.5	4x1.5
TWU 4-0830-B	3~400 V, 50 Hz	4	5.5	13.7	4	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
				for vertical installation (B)	for horizontal installation (D)
				—	—
TWU 4-0804-B	1~230 V, 50 Hz	L	4093191	4064430	4064430 + 4065891
TWU 4-0804-B-EMSC	1~230 V, 50 Hz	L	4093210	4064430	4064430 + 4065891
TWU 4-0804-B	3~400 V, 50 Hz	L	4093159	4064430	4064430 + 4065891
TWU 4-0806-B	1~230 V, 50 Hz	L	4093192	4064430	4064430 + 4065891
TWU 4-0806-B-EMSC	1~230 V, 50 Hz	L	4093211	4064431	4064431 + 4065892
TWU 4-0806-B	3~400 V, 50 Hz	L	4093160	4064430	4064430 + 4065892
TWU 4-0808-B	1~230 V, 50 Hz	L	4093193	4064431	4064431 + 4065892
TWU 4-0808-B-EMSC	1~230 V, 50 Hz	L	4093212	4064431	4064431 + 4065892
TWU 4-0808-B	3~400 V, 50 Hz	L	4093161	4064430	4064430 + 4065892
TWU 4-0812-B	1~230 V, 50 Hz	L	4093194	4064431	4064431 + 4065892
TWU 4-0812-B-EMSC	1~230 V, 50 Hz	L	4093213	4064431	4064431 + 4065892
TWU 4-0812-B	3~400 V, 50 Hz	L	4093162	4064430	4064430 + 4065892
TWU 4-0817-B	3~400 V, 50 Hz	L	4093163	4064431	4064431 + 4065892
TWU 4-0820-B	3~400 V, 50 Hz	L	4093164	4064431	4064431 + 4065893
TWU 4-0824-B	3~400 V, 50 Hz	L	4093165	4064431	4064431 + 4065893
TWU 4-0830-B	3~400 V, 50 Hz	L	4093166	4064431	4064431 + 4065893

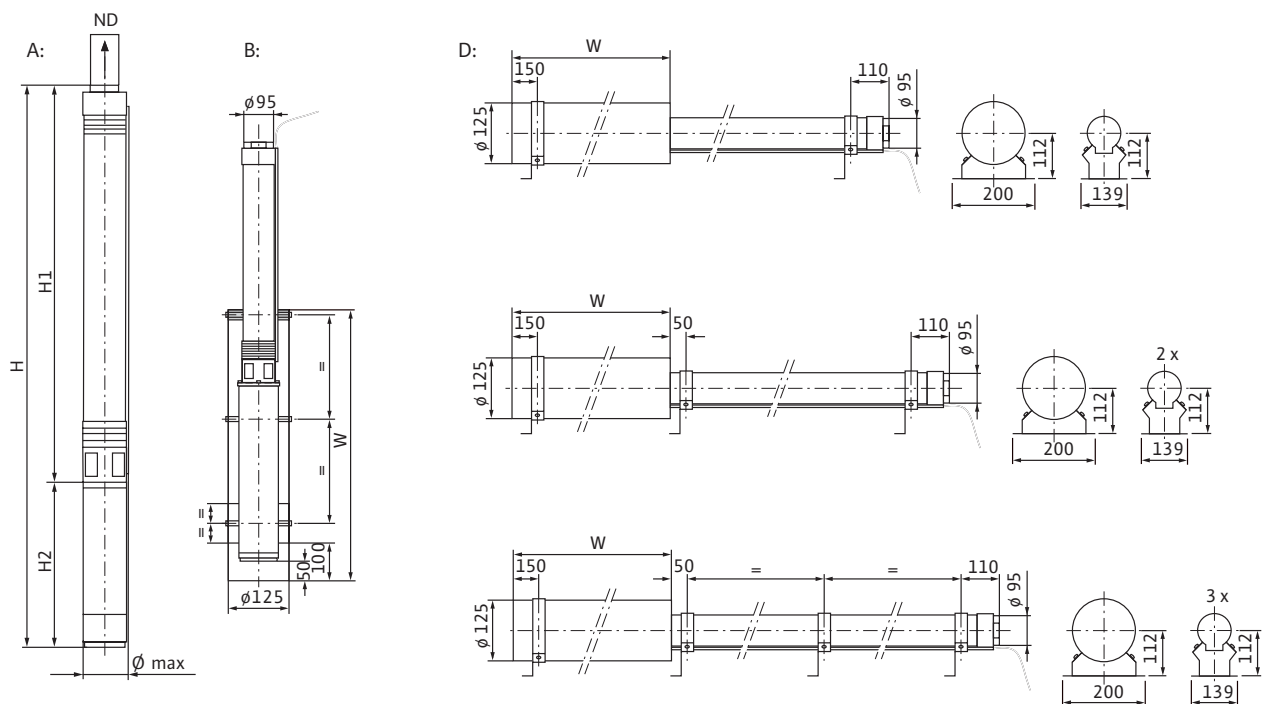
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-08 ..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

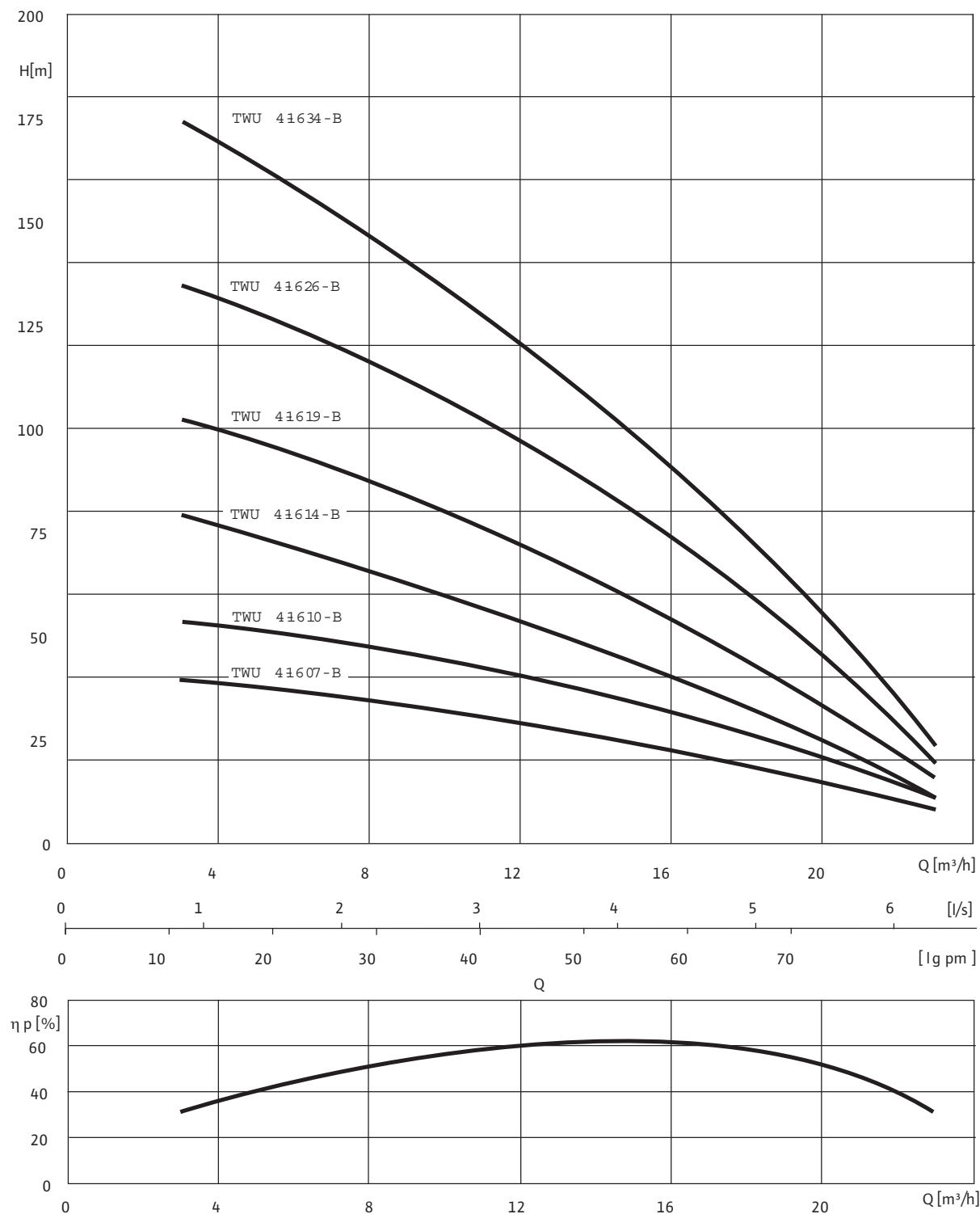
Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-0804-B	1~230 V, 50 Hz	Rp 2	794	495	299	500	98	A, B, D	14.1
TWU 4-0804-B-EMSC	1~230 V, 50 Hz	Rp 2	766	495	299	500	98	A, B, D	14.1
TWU 4-0804-B	3~400 V, 50 Hz	Rp 2	766	495	271	500	98	A, B, D	12.9
TWU 4-0806-B	1~230 V, 50 Hz	Rp 2	927	600	327	500	98	A, B, D	16
TWU 4-0806-B-EMSC	1~230 V, 50 Hz	Rp 2	899	600	327	750	98	A, B, D	16
TWU 4-0806-B	3~400 V, 50 Hz	Rp 2	899	600	299	500	98	A, B, D	14.7
TWU 4-0808-B	1~230 V, 50 Hz	Rp 2	1061	705	356	750	98	A, B, D	18
TWU 4-0808-B-EMSC	1~230 V, 50 Hz	Rp 2	1032	705	356	750	98	A, B, D	18
TWU 4-0808-B	3~400 V, 50 Hz	Rp 2	1032	705	327	500	98	A, B, D	16.6
TWU 4-0812-B	1~230 V, 50 Hz	Rp 2	1376	915	461	750	98	A, B, D	23.7
TWU 4-0812-B-EMSC	1~230 V, 50 Hz	Rp 2	1376	915	461	750	98	A, B, D	23.7
TWU 4-0812-B	3~400 V, 50 Hz	Rp 2	1271	915	356	500	98	A, B, D	19.2
TWU 4-0817-B	3~400 V, 50 Hz	Rp 2	1603	1180	423	750	98	A, B, D	23.3
TWU 4-0820-B	3~400 V, 50 Hz	Rp 2	2083	1500	583	750	98	A, B, D	29.7
TWU 4-0824-B	3~400 V, 50 Hz	Rp 2	2188	1605	583	750	98	A, B, D	31.9
TWU 4-0830-B	3~400 V, 50 Hz	Rp 2	2622	1925	697	750	98	A, B, D	39.2

³⁾ For power cable to I_N, max. Ø for threaded connection

Wilo-Sub TWU 4-16 ..-B

Pump curves Wilo-Sub TWU 4-16..-B



1~230 V or 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

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-16 ..-B

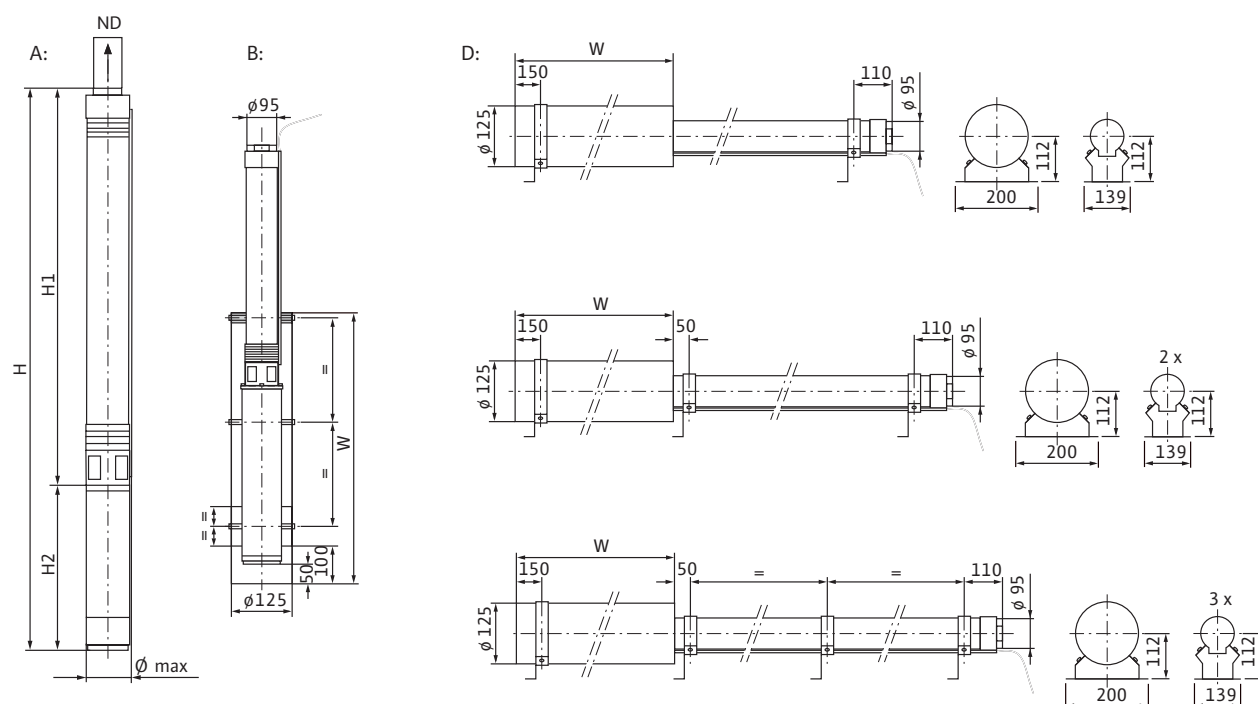
Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[“]	[kW]	[A]	[m]	[mm ²]
TWU 4-1607-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4x1.5
TWU 4-1607-B-EMSC	1~230 V, 50 Hz	4	1.5	11.1	1.5	4x1.5
TWU 4-1607-B	3~400 V, 50 Hz	4	1.5	4	1.5	4x1.5
TWU 4-1610-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4x1.5
TWU 4-1610-B-EMSC	1~230 V, 50 Hz	4	2.2	15.9	1.5	4x1.5
TWU 4-1610-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4x1.5
TWU 4-1614-B	3~400 V, 50 Hz	4	3	7.8	2.5	4x1.5
TWU 4-1619-B	3~400 V, 50 Hz	4	4	10	2.5	4x1.5
TWU 4-1626-B	3~400 V, 50 Hz	4	5.5	13.7	4	4x1.5
TWU 4-1634-B	3~400 V, 50 Hz	4	7.5	18.8	4	4x1.5

Ordering information					
Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–			for vertical installation (B)	for horizontal installation (D)
	–			–	
TWU 4-1607-B	1~230 V, 50 Hz	L	4093195	4064431	4064431 + 4065892
TWU 4-1607-B-EMSC	1~230 V, 50 Hz	L	4093214	4064431	4064431 + 4065892
TWU 4-1607-B	3~400 V, 50 Hz	L	4093167	4064430	4064430 + 4065892
TWU 4-1610-B	1~230 V, 50 Hz	L	4093196	4064431	4064431 + 4065892
TWU 4-1610-B-EMSC	1~230 V, 50 Hz	L	4093215	4064431	4064431 + 4065892
TWU 4-1610-B	3~400 V, 50 Hz	L	4093168	4064430	4064430 + 4065892
TWU 4-1614-B	3~400 V, 50 Hz	L	4093169	4064431	4064431 + 4065892
TWU 4-1619-B	3~400 V, 50 Hz	L	4093170	–	– + –
TWU 4-1626-B	3~400 V, 50 Hz	L	4093171	–	– + –
TWU 4-1634-B	3~400 V, 50 Hz	L	4093172	–	– + –

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Wilo-Sub TWU 4-16 ..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-1607-B	1~230 V, 50 Hz	Rp 2	1196	840	356	750	98	A, B, D	18.8
TWU 4-1607-B-EMSC	1~230 V, 50 Hz	Rp 2	1196	840	356	750	98	A, B, D	18.8
TWU 4-1607-B	3~400 V, 50 Hz	Rp 2	1167	840	327	500	98	A, B, D	17.4
TWU 4-1610-B	1~230 V, 50 Hz	Rp 2	1536	1075	461	750	98	A, B, D	24.7
TWU 4-1610-B-EMSC	1~230 V, 50 Hz	Rp 2	1536	1075	461	750	98	A, B, D	24.7
TWU 4-1610-B	3~400 V, 50 Hz	Rp 2	1431	1075	356	500	98	A, B, D	20.2
TWU 4-1614-B	3~400 V, 50 Hz	Rp 2	1878	1455	423	750	98	A, B, D	24.9
TWU 4-1619-B	3~400 V, 50 Hz	Rp 2	2428	1845	583	—	98	A, B, D	33.2
TWU 4-1626-B	3~400 V, 50 Hz	Rp 2	3152	2455	697	—	98	A, B, D	42.3
TWU 4-1634-B	3~400 V, 50 Hz	Rp 2	3924	3150	774	—	98	A, B, D	50.7

³⁾ For power cable to I_N, max. Ø for threaded connection

Pumps and systems for domestic water supply

Single pumps

Series description Wilo-Sub TWU 4-QC



Design

Submersible pump, multistage

Type key

e.g. **Wilo-Sub TWU 4-0804-B-QC**

TWU	Submersible pump
4	Diameter of the hydraulic unit in inches ["]
08	Nominal volume flow [m ³ /h]
04	Number of hydraulic stages
B	Series generation
QC	Quick Connect Cable Quick-connection cable for the simple and fast extension of the motor cable

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 fibrous and abrasive constituents

Special features/product advantages

- Parts that come in contact with fluids are corrosion-free
- Integrated non-return valve
- Simple and fast extension of the motor cable, without dismantling the pump
- Vertical and horizontal installation possible

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–30 °C
- Minimum flow at the motor: 0.08 m/s
- Max. sand content: 50 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 200 m
- Protection class: IP 68
- Pressure port: Rp 1¼ – Rp 2

Equipment/function

- Multistage submersible pump with radial or semi-axial impellers
- Motor with hermetically cast stator
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase motor
- Integrated thermal motor protection for single-phase motor

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Polycarbonate or Noryl (C generation)
- Hydraulic 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

Multistage submersible pump with radial (TWU 4-02... and TWU 4-04...) or semi-axial (TWU 4-08...) impellers in sectional design. Integrated non-return valve. All parts that come 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 stator, resin-impregnated, with enamel-insulated winding, self-lubricating bearing, with water-glycol filling.

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Options

- Motor version for 1~230 V, 60 Hz; 3~380 V, 60 Hz

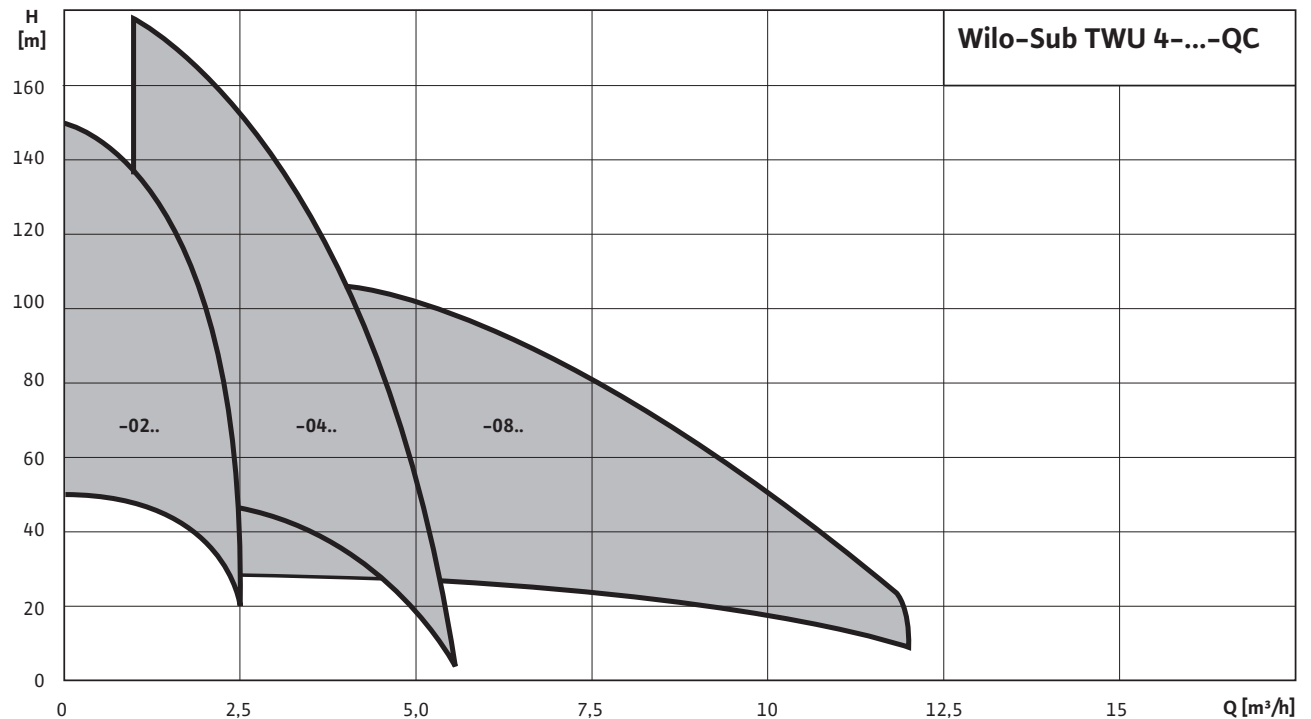
Scope of delivery

- Hydraulic unit + motor completely assembled
- 1.5 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Cable ties
- Safety rope made of polypropylene
- 1x clamp for fastening the safety rope to the unit
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- Installation and operating instructions

Series description Wilo-Sub TWU 4-QC

Accessories

- Quick Connect Cable: Quick-connection cable for the simple and faster extension of the motor cable
- Cooling jacket pipes
- Diaphragm pressure vessel
- Cable kits for potable water and process water
- Float switch
- Switchgears
- Connection and installation material

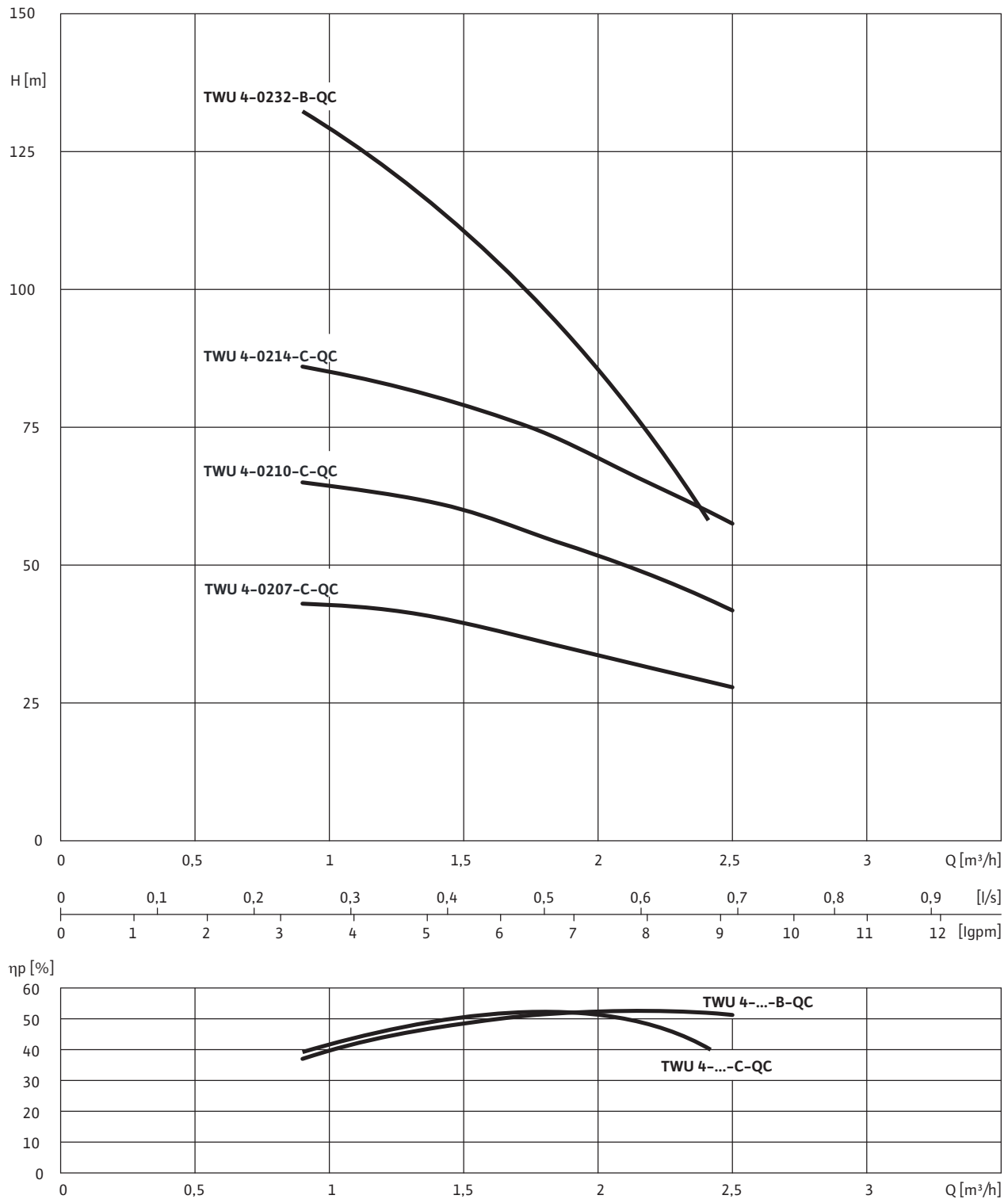


Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-02...-B/-C-QC

Pump curves Wilo-Sub TWU 4-02...-B/-C-QC



1~230 V or 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

Wilo-Sub TWU 4-02..-B/-C-QC

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0207-C-QC	1~230 V, 50 Hz	4	0.37	3.4	1.5	4x1.5
TWU 4-0207-C-QC	3~400 V, 50 Hz	4	0.37	1.2	1.5	4x1.5
TWU 4-0210-C-QC	1~230 V, 50 Hz	4	0.55	4.4	1.5	4x1.5
TWU 4-0210-C-QC	3~400 V, 50 Hz	4	0.55	1.7	1.5	4x1.5
TWU 4-0214-C-QC	1~230 V, 50 Hz	4	0.75	5.9	1.5	4x1.5
TWU 4-0214-C-QC	3~400 V, 50 Hz	4	0.75	2.2	1.5	4x1.5
TWU 4-0232-B-QC	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0232-B-QC	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–	–	–	for vertical installation (B)	for horizontal installation (D)
	–	–	–	–	–
TWU 4-0207-C-QC	1~230 V, 50 Hz	L	6046685	4064430	6037935 + 4073928
TWU 4-0207-C-QC	3~400 V, 50 Hz	L	6046682	4064430	6037935 + 4073928
TWU 4-0210-C-QC	1~230 V, 50 Hz	L	6046684	4064430	6037935 + 4073928
TWU 4-0210-C-QC	3~400 V, 50 Hz	L	6046681	4064430	6037935 + 4073928
TWU 4-0214-C-QC	1~230 V, 50 Hz	L	6046683	4064430	6037935 + 4073928
TWU 4-0214-C-QC	3~400 V, 50 Hz	L	6046680	4064430	6037935 + 4073928
TWU 4-0232-B-QC	1~230 V, 50 Hz	L	4089087	4064430	4064430 + 4065892
TWU 4-0232-B-QC	3~400 V, 50 Hz	L	4087157	4064430	4064430 + 4065892

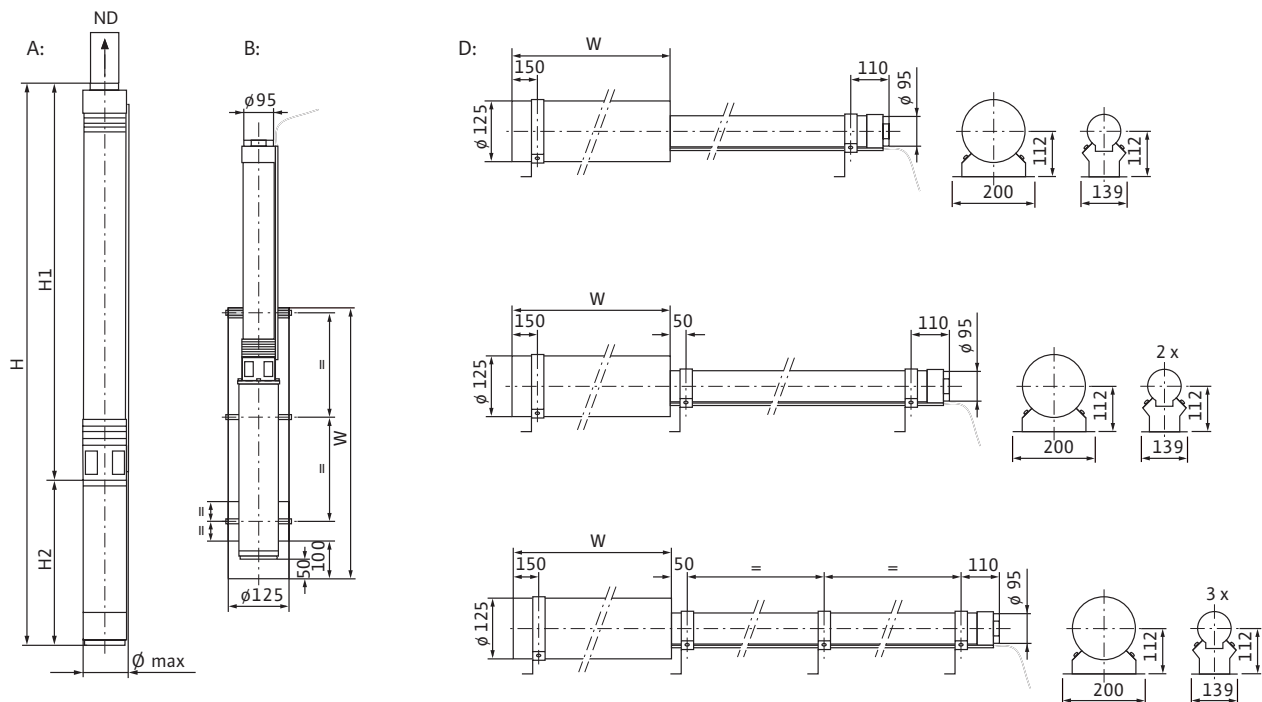
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-02...-B/-C-QC

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

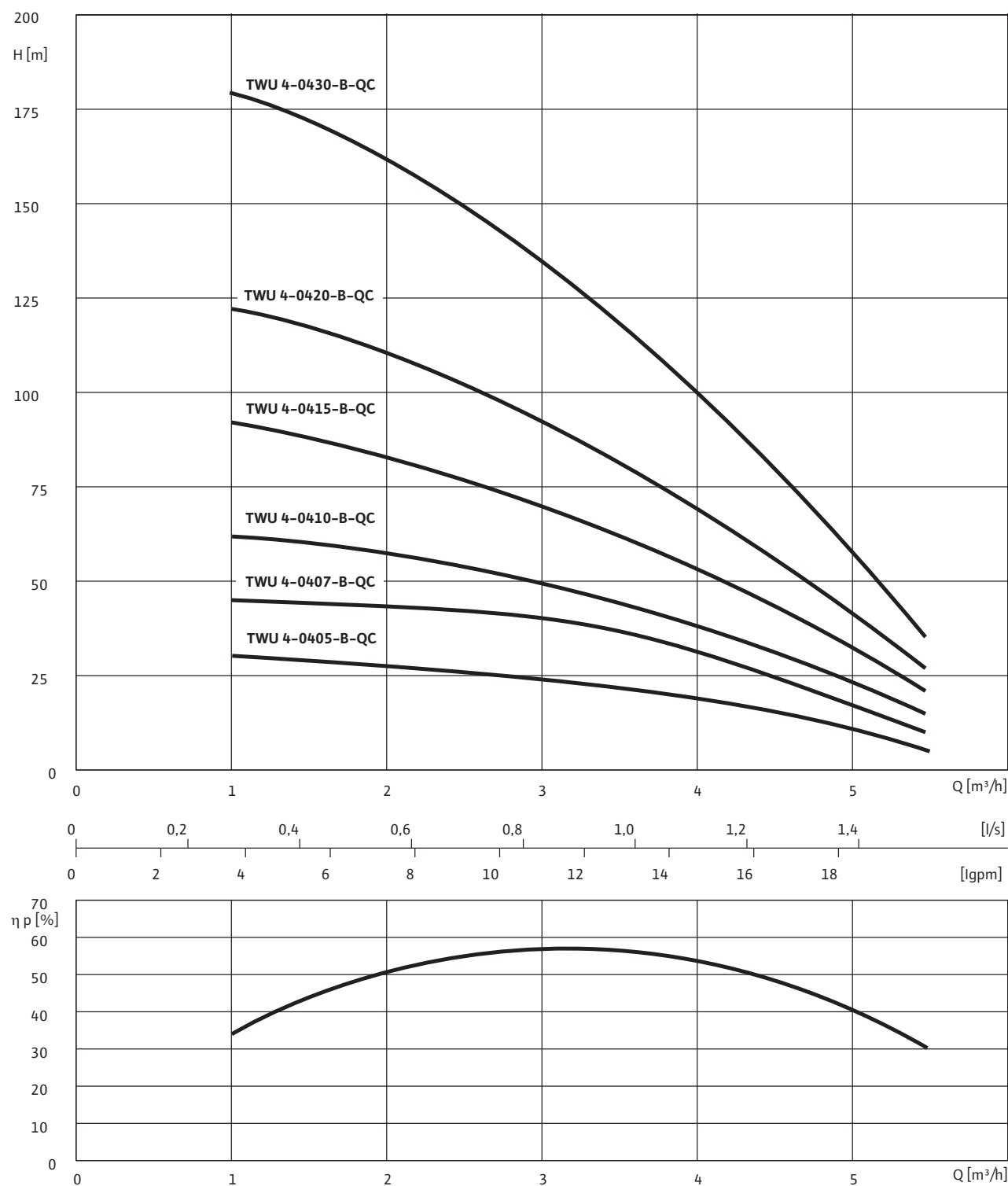
Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	–		H	H ₁	H ₂	W	Ø ³⁾	–	Unit
	–		[mm]					–	[kg]
TWU 4-0207-C-QC	1~230 V, 50 Hz	Rp 1¼	521	271	250	500	98	A, B, D	9.6
TWU 4-0207-C-QC	3~400 V, 50 Hz	Rp 1¼	506	271	235	500	98	A, B, D	8.6
TWU 4-0210-C-QC	1~230 V, 50 Hz	Rp 1¼	589	324	265	500	98	A, B, D	11.4
TWU 4-0210-C-QC	3~400 V, 50 Hz	Rp 1¼	574	324	250	500	98	A, B, D	10.3
TWU 4-0214-C-QC	1~230 V, 50 Hz	Rp 1¼	689	394	295	500	98	A, B, D	12.2
TWU 4-0214-C-QC	3~400 V, 50 Hz	Rp 1¼	659	394	265	500	98	A, B, D	12.2
TWU 4-0232-B-QC	1~230 V, 50 Hz	Rp 1¼	1227	900	327	500	98	A, B, D	18.1
TWU 4-0232-B-QC	3~400 V, 50 Hz	Rp 1¼	1199	900	299	500	98	A, B, D	16.8

³⁾ For power cable to I_N, max. Ø for threaded connection

Wilo-Sub TWU 4-04..-B-QC

Pump curves Wilo-Sub TWU 4-04..-B-QC



1~230 V or 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

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-04...-B-QC

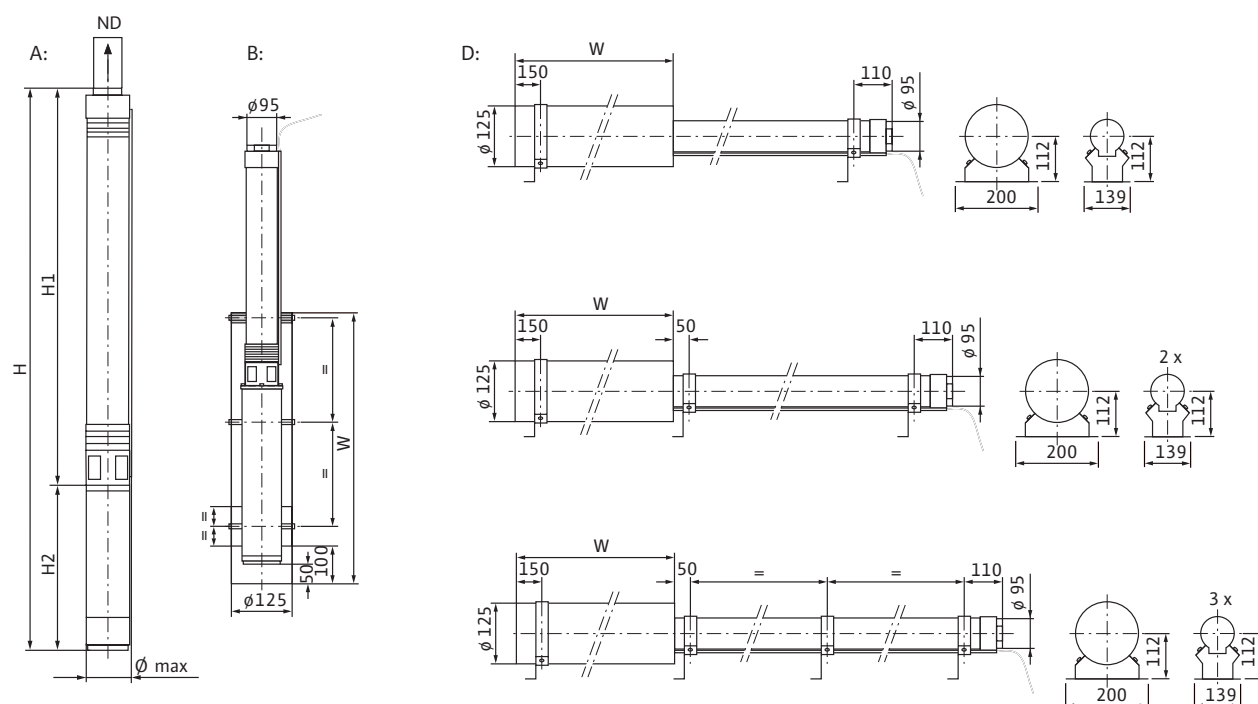
Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0405-B-QC	3~400 V, 50 Hz	4	0.37	1.1	1.5	4x1.5
TWU 4-0407-B-QC	1~230 V, 50 Hz	4	0.55	4.3	1.5	4x1.5
TWU 4-0407-B-QC	3~400 V, 50 Hz	4	0.55	1.6	1.5	4x1.5
TWU 4-0410-B-QC	1~230 V, 50 Hz	4	0.75	5.7	1.5	4x1.5
TWU 4-0410-B-QC	3~400 V, 50 Hz	4	0.75	2.1	1.5	4x1.5
TWU 4-0415-B-QC	1~230 V, 50 Hz	4	1.1	8.6	1.5	4x1.5
TWU 4-0415-B-QC	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0420-B-QC	3~400 V, 50 Hz	4	1.5	4	1.5	4x1.5
TWU 4-0430-B-QC	3~400 V, 50 Hz	4	2.2	5.9	1.5	4x1.5

Ordering information					
Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–			for vertical installation (B)	for horizontal installation (D)
	–			–	
TWU 4-0405-B-QC	3~400 V, 50 Hz	L	4099339	4064430	4064430 + 4065891
TWU 4-0407-B-QC	1~230 V, 50 Hz	L	4089088	4064430	4064430 + 4065891
TWU 4-0407-B-QC	3~400 V, 50 Hz	L	4087162	4064430	4064430 + 4065891
TWU 4-0410-B-QC	1~230 V, 50 Hz	L	4089089	4064430	4064430 + 4065891
TWU 4-0410-B-QC	3~400 V, 50 Hz	L	4087163	4064430	4064430 + 4065892
TWU 4-0415-B-QC	1~230 V, 50 Hz	L	4089090	4064430	4064430 + 4065891
TWU 4-0415-B-QC	3~400 V, 50 Hz	L	4087164	4064430	4064430 + 4065892
TWU 4-0420-B-QC	3~400 V, 50 Hz	L	4087166	4064430	4064430 + 4065892
TWU 4-0430-B-QC	3~400 V, 50 Hz	L	4087167	4064430	4064430 + 4065892

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Wilo-Sub TWU 4-04..-B-QC

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-0405-B-QC	3~400 V, 50 Hz	Rp 1¼	653	430	223	500	98	A, B, D	11
TWU 4-0407-B-QC	1~230 V, 50 Hz	Rp 1¼	766	495	271	500	98	A, B, D	13.2
TWU 4-0407-B-QC	3~400 V, 50 Hz	Rp 1¼	737	495	242	500	98	A, B, D	11.9
TWU 4-0410-B-QC	1~230 V, 50 Hz	Rp 1¼	889	590	299	500	98	A, B, D	15
TWU 4-0410-B-QC	3~400 V, 50 Hz	Rp 1¼	861	590	271	500	98	A, B, D	13.8
TWU 4-0415-B-QC	1~230 V, 50 Hz	Rp 1¼	1077	750	327	500	98	A, B, D	17.4
TWU 4-0415-B-QC	3~400 V, 50 Hz	Rp 1¼	1049	750	299	500	98	A, B, D	16.1
TWU 4-0420-B-QC	3~400 V, 50 Hz	Rp 1¼	1242	915	327	500	98	A, B, D	18.5
TWU 4-0430-B-QC	3~400 V, 50 Hz	Rp 1¼	1591	1235	356	500	98	A, B, D	22.1

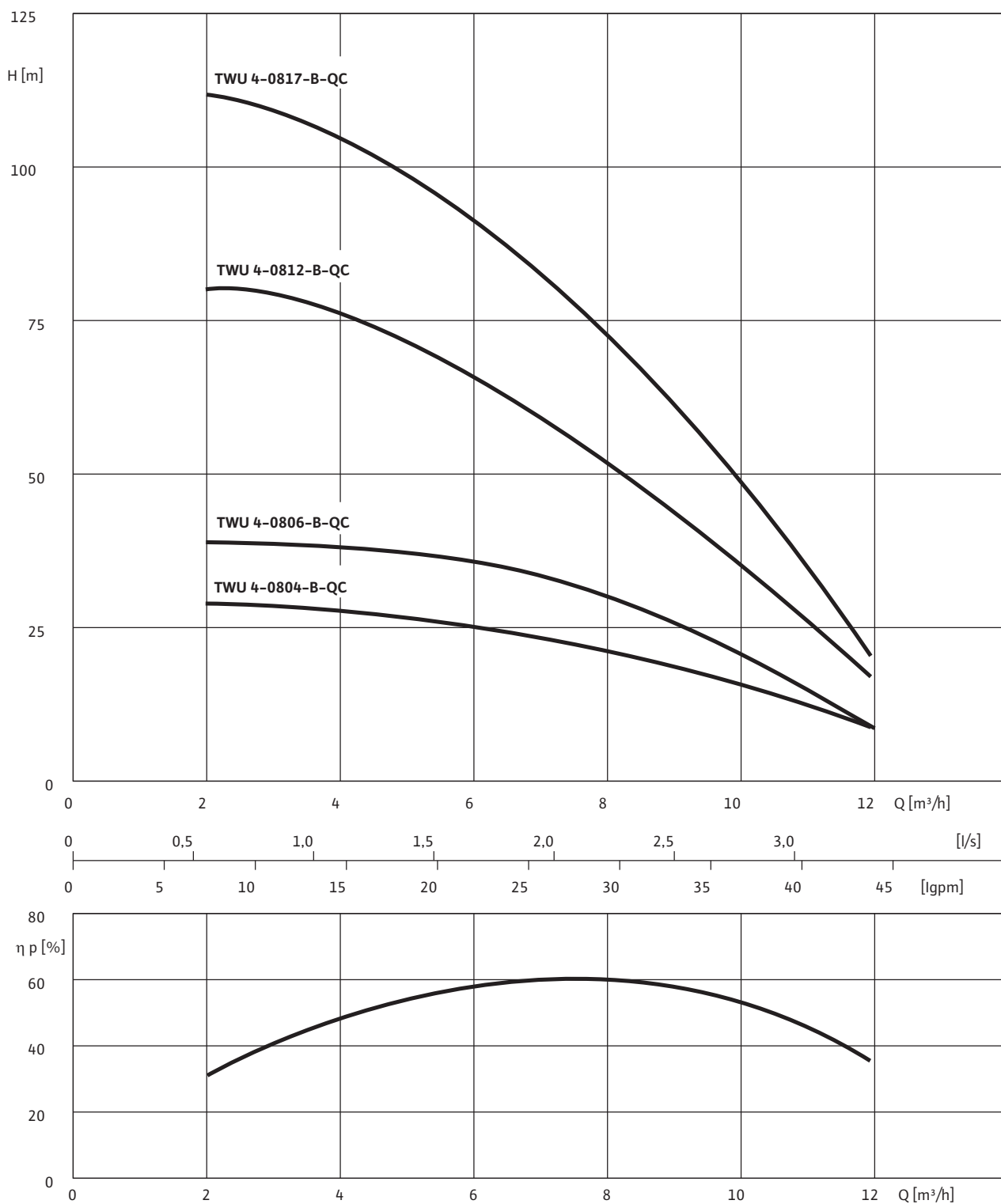
³⁾ For power cable to I_N, max. Ø for threaded connection

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-08..-B-QC

Pump curves Wilo-Sub TWU 4-08..-B-QC



1~230 V or 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

Wilo-Sub TWU 4-08..-B-QC

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	—	Ø	P ₂	I _N	L	—
	—	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0804-B-QC	1~230 V, 50 Hz	4	0.75	5.7	1.5	4x1.5
TWU 4-0804-B-QC	3~400 V, 50 Hz	4	0.75	2.1	1.5	4x1.5
TWU 4-0806-B-QC	3~400 V, 50 Hz	4	1.1	3	1.5	4x1.5
TWU 4-0812-B-QC	3~400 V, 50 Hz	4	2.2	5.9	1.5	4x1.5
TWU 4-0817-B-QC	3~400 V, 50 Hz	4	3	7.8	1.5	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWU 4-0804-B-QC	1~230 V, 50 Hz	L	4089091	4064430	4064430 + 4065891
TWU 4-0804-B-QC	3~400 V, 50 Hz	L	4089081	4064430	4064430 + 4065891
TWU 4-0806-B-QC	3~400 V, 50 Hz	L	4106546	4064430	4064430 + 4065892
TWU 4-0812-B-QC	3~400 V, 50 Hz	L	4089082	4064430	4064430 + 4065892
TWU 4-0817-B-QC	3~400 V, 50 Hz	L	4089083	4064431	4064431 + 4065892

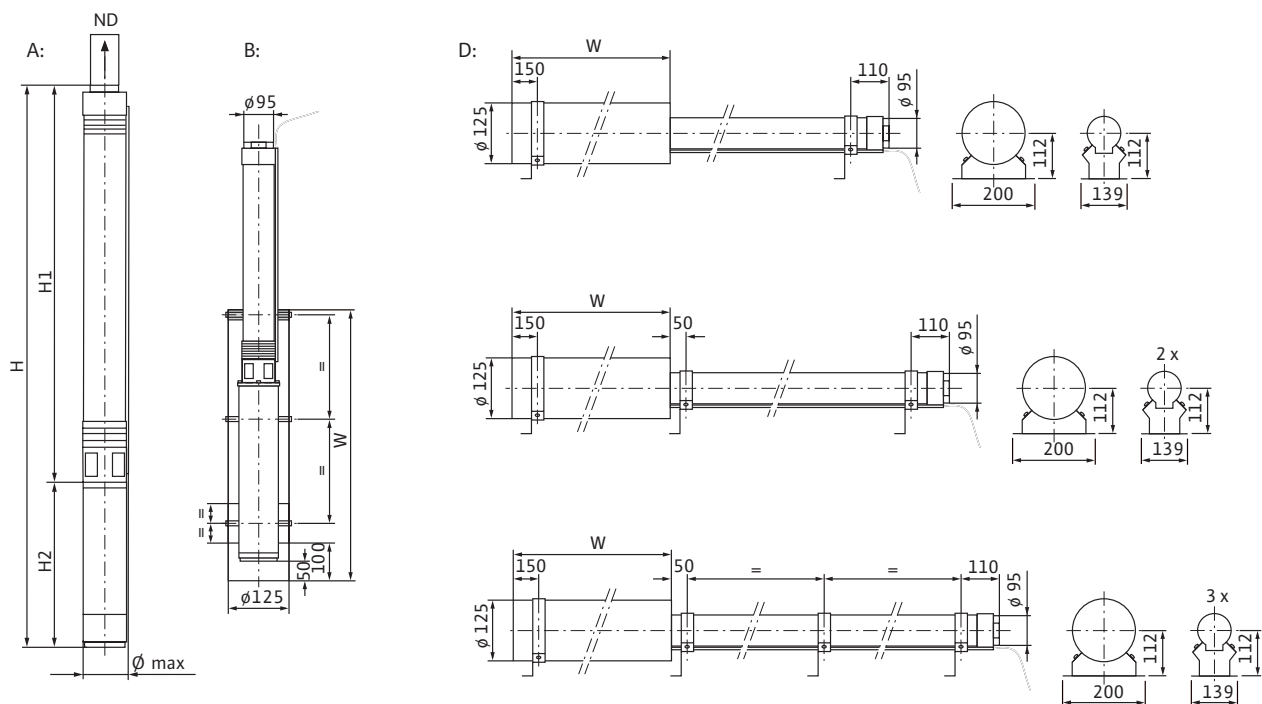
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWU 4-08..-B-QC

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Mains connection	Pressure port	Dimensions					Installation	Weight
	—		H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—		[mm]					—	[kg]
TWU 4-0804-B-QC	1~230 V, 50 Hz	Rp 2	794	495	299	500	98	A, B, D	14.1
TWU 4-0804-B-QC	3~400 V, 50 Hz	Rp 2	766	495	271	500	98	A, B, D	12.9
TWU 4-0806-B-QC	3~400 V, 50 Hz	Rp 2	899	600	299	500	98	A, B, D	14.7
TWU 4-0812-B-QC	3~400 V, 50 Hz	Rp 2	1271	915	356	500	98	A, B, D	19.2
TWU 4-0817-B-QC	3~400 V, 50 Hz	Rp 2	1603	1180	423	750	98	A, B, D	23.3

³⁾ For power cable to I_N, max. Ø for threaded connection

52 customer service technicians.
Overwhelming availability.
1 telephone number.
Everywhere in Germany.



Wilo factory customer service.

The Wilo factory customer service technicians are partners who are there for you with their practical support in all of Germany 365 days a year. Your personal contact partner on site offers you all conceivable support. This local service works so well thanks to our unparalleled organisational structure. Everything comes together in our factory-owned Wilo Service Centre. Based on this, every service call is coordinated perfectly via your personal control centre, and the Wilo customer service technician will be on site to give optimum support with a lot of useful information. Exemplary? We call this Pumpen Intelligenz.

www.wilo.com



Pumpen Intelligenz.

Pumps and systems for domestic water supply

Single pumps

Series description Wilo-Sub TWI 4-..-B



Design

Submersible pump, multistage

Type key

e.g. **Wilo-Sub TWI 4.01-09-B**

TWI	Submersible pump
4	Diameter of the hydraulic unit in inches ["]
01	Nominal volume flow [m ³ /h]
09	Number of hydraulic stages
B	Series generation

Application

- For water and potable water supply from boreholes and rain storage tanks
- Process water supply
- For municipal water supply, sprinkling and irrigation
- Pressure boosting
- Lowering the water level
- For pumping water in industrial applications
- For pumping water without long fibrous and abrasive constituents

Special features/product advantages

- Simple maintenance due to fast installation and dismantling
- Integrated non-return valve
- Vertical and horizontal installation possible

Technical data

- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–30 °C
- Minimum flow at the motor: 0.1 m/s
- Max. sand content: 35 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 350 m
- Protection class: IP 68
- Pressure port: Rp 1¼ – Rp 2

Equipment/function

- Multistage submersible pump with radial impellers
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase motor
- Motor with hermetically cast motor

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Stainless steel 1.4301
- Hydraulic shaft: Stainless steel 1.4057
- Motor housing: Stainless steel 1.4301
- Motor shaft: Stainless steel 1.4305

Description/design

Submersible pump for vertical or horizontal installation.

Hydraulics

Multistage submersible pump with 4" NEMA connection and radial or semi-axial impellers in sectional design. Integrated non-return valve. All parts that come 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 stator, resin-impregnated, with enamel-insulated winding, self-lubricating bearing, with water-glycol filling.

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Options

- Hydraulic unit in stainless steel 1.4401
- Motor in stainless steel 1.4401
- 60 Hz version
- Single-phase motor without soft starter, with integrated lightning and overload protection up to 1.1 kW

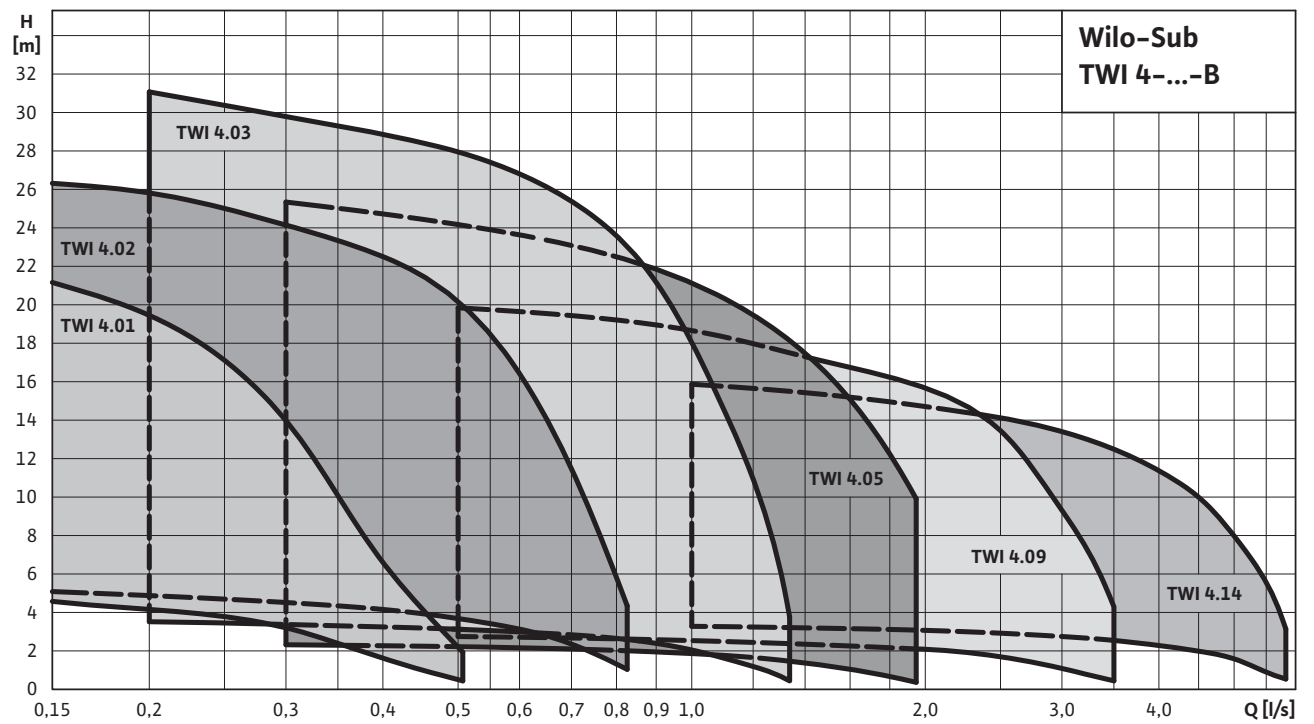
Scope of delivery

- Hydraulic unit + motor completely assembled
- 1.5/2.5 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Single-phase version including switchbox with capacitor, thermal motor protection and On/Off switch
- Installation and operating instructions

Accessories

- Cooling jacket pipes
- Diaphragm pressure vessel
- Cable kits for potable water and process water
- Float switch
- Switchgears
- Connection and installation material

Series description Wilo-Sub TWI 4-...-B

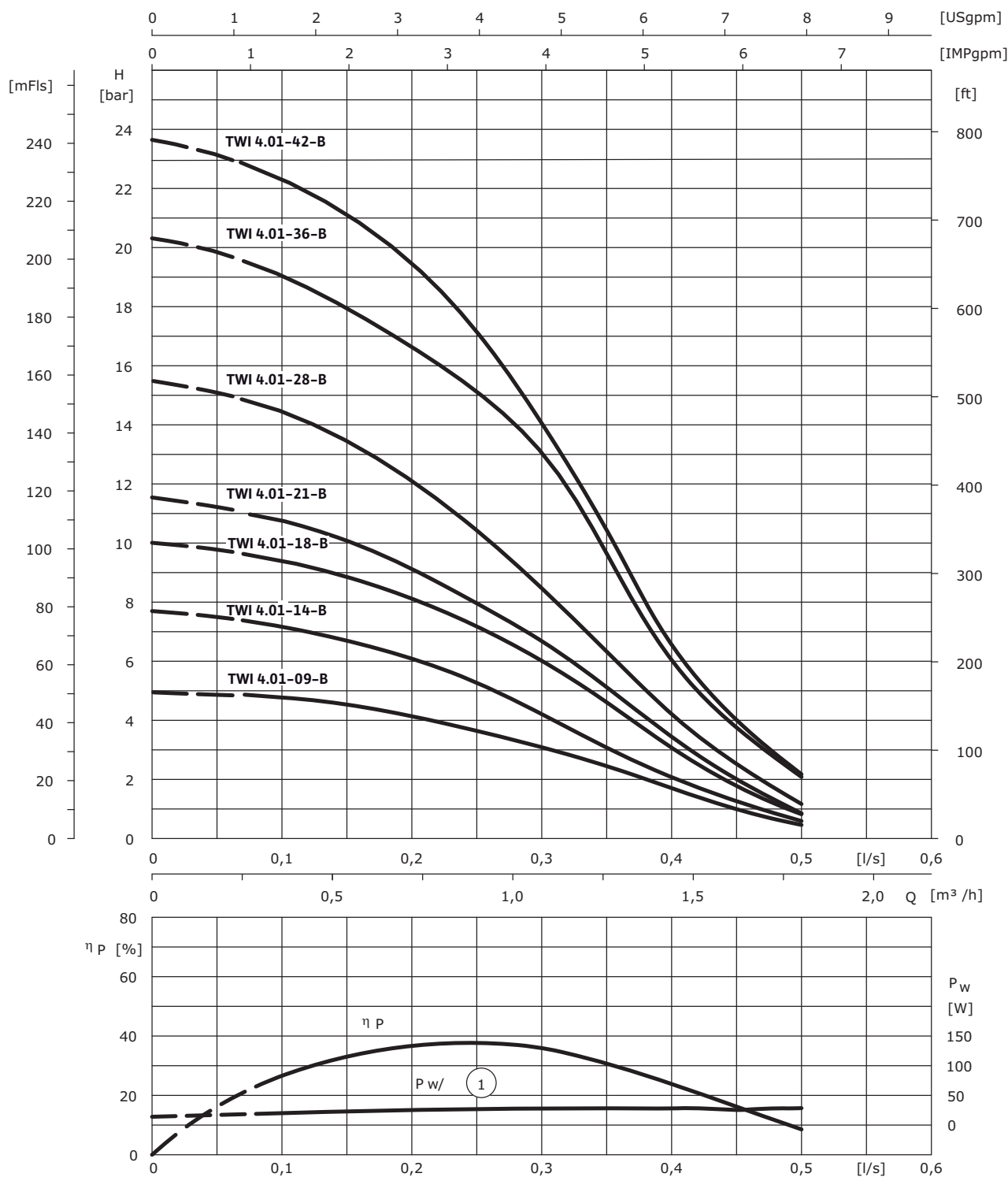


Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.01..-B (1~230 V)

Pump curves Wilo-Sub TWI 4.01..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.01..-B (1~230 V)

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.01-09-B	1~230 V, 50 Hz	4	0.37	3.2	1.5	4G1.5
TWI 4.01-14-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.01-18-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.01-21-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4G1.5
TWI 4.01-28-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.01-36-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.01-42-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.01...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.01...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

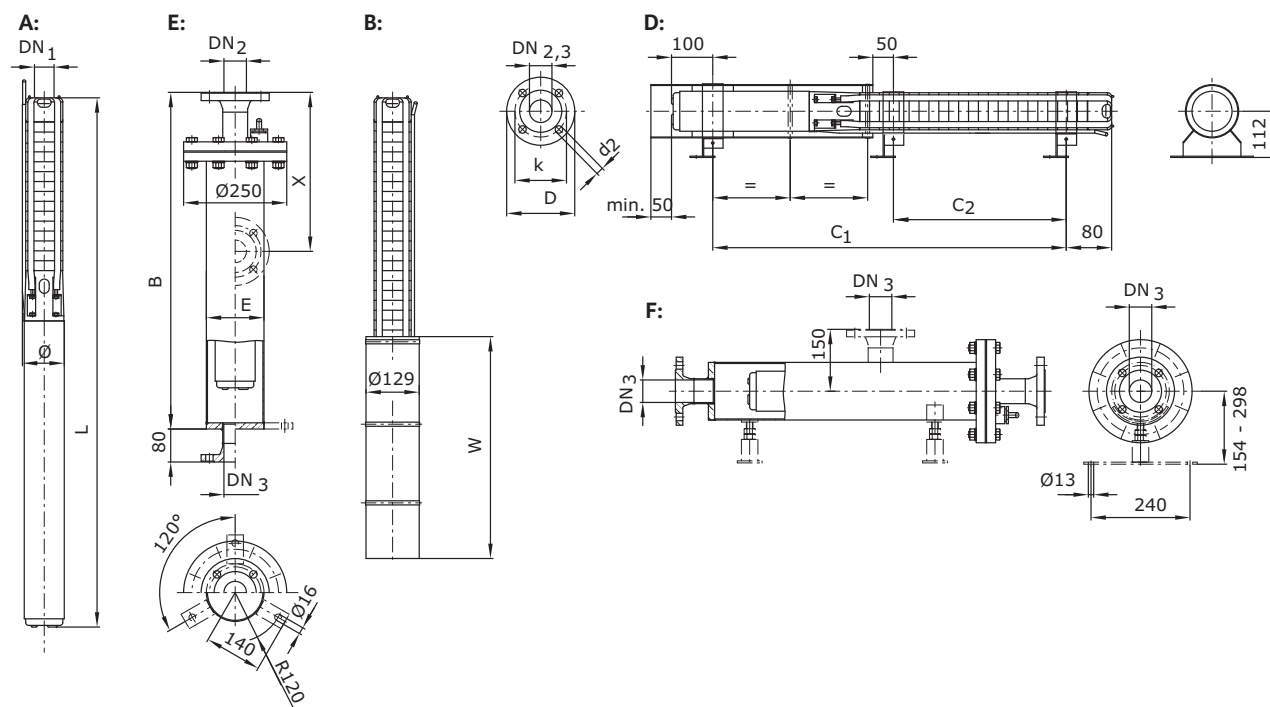
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.01..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]							[kg]		—
TWI 4.01-09-B	920	405	—	139.7	585	500	98	33	11.7	A, B, D, E, F
TWI 4.01-14-B	1220	539	208	139.7	719	500	98	36	13.9	A, B, D, E, F
TWI 4.01-18-B	1220	633	302	139.7	803	500	98	36	14.7	A, B, D, E, F
TWI 4.01-21-B	1220	714	355	139.7	894	500	98	36	16.8	A, B, D, E, F
TWI 4.01-28-B	1520	918	502	139.7	1069	750	98	38	19.4	A, B, D, E, F
TWI 4.01-36-B	1820	1121	705	139.7	1273	750	98	41	21.5	A, B, D, E, F
TWI 4.01-42-B	1820	1275	831	139.7	1427	750	98	41	25.2	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.01..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.01-09-B	1~230 V, 50 Hz	L	6043566	4064430	6037935
TWI 4.01-14-B	1~230 V, 50 Hz	L	6043567	4064430	6037901
TWI 4.01-18-B	1~230 V, 50 Hz	L	6043568	4064430	6037901
TWI 4.01-21-B	1~230 V, 50 Hz	L	6043569	4064430	6037901
TWI 4.01-28-B	1~230 V, 50 Hz	L	6043570	4064431	6037936
TWI 4.01-36-B	1~230 V, 50 Hz	K	6043571	4064431	6037936
TWI 4.01-42-B	1~230 V, 50 Hz	K	6043572	4064431	6037936

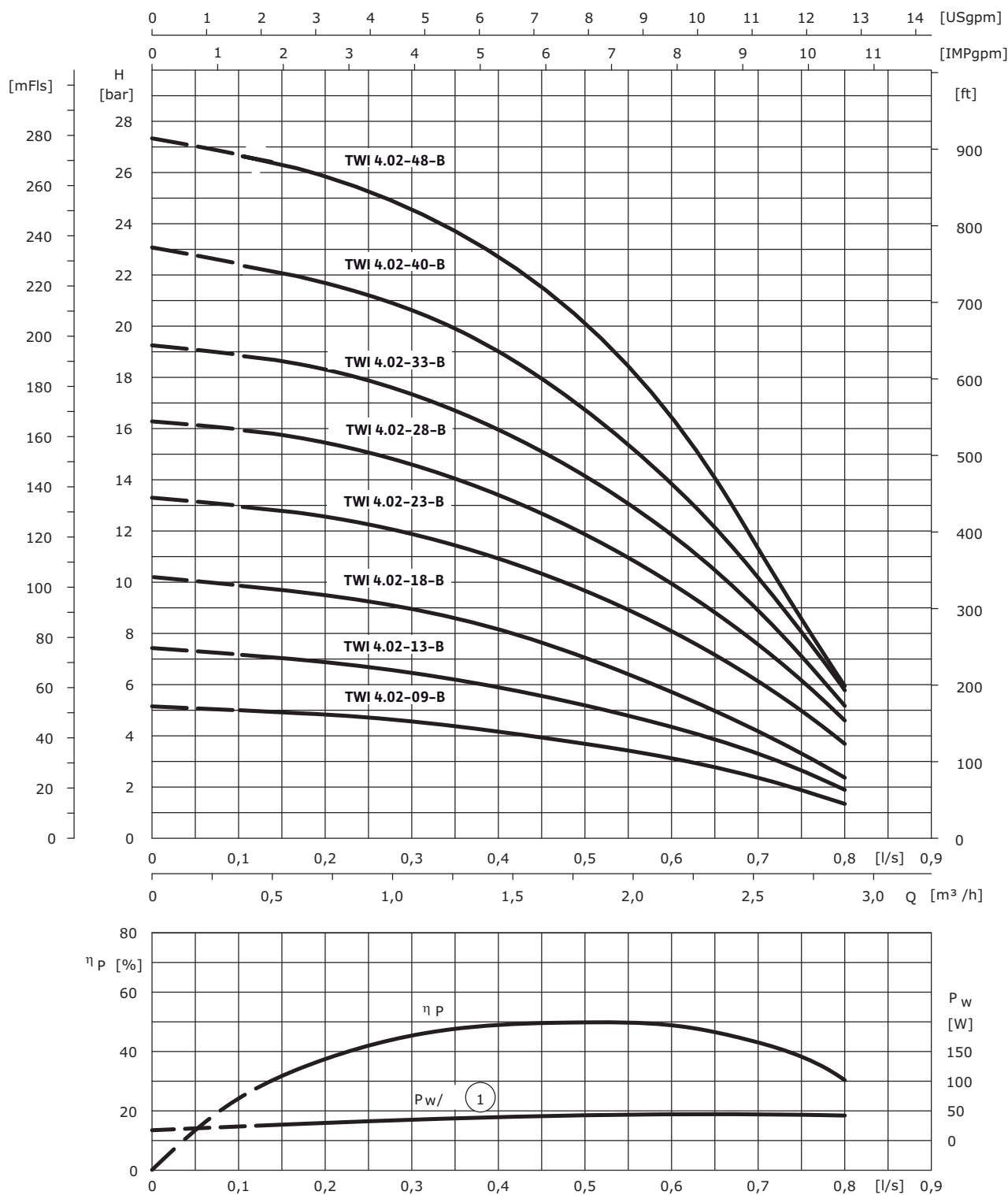
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.02..-B (1~230 V)

Pump curves Wilo-Sub TWI 4.02..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.02..-B (1~230 V)

Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.02-09-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.02-13-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4G1.5
TWI 4.02-18-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.02-23-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.02-28-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.02-33-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.02-40-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.02-48-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5

Flange dimensions									
Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.02...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.02...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

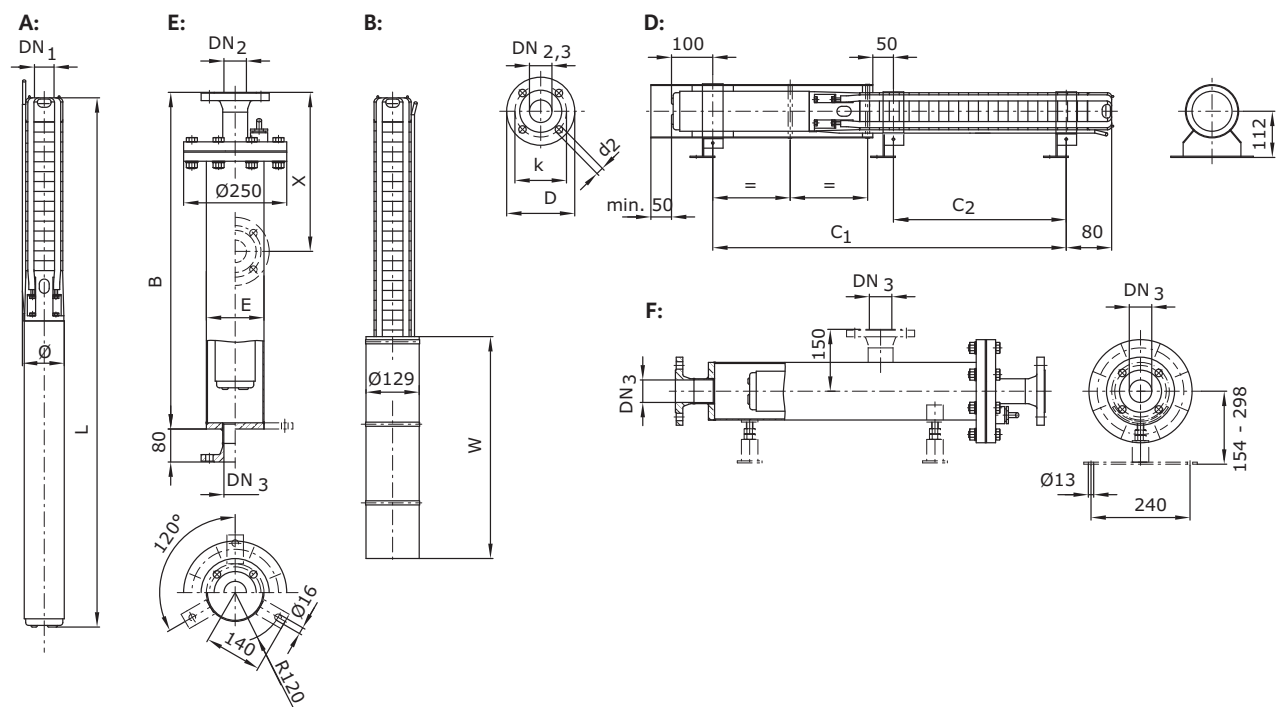
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.02..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	
	[mm]							[kg]		—
TWI 4.02-09-B	920	434	—	139.7	614	500	98	33	12.8	A, B, D, E, F
TWI 4.02-13-B	1220	546	—	139.7	726	500	98	36	15.2	A, B, D, E, F
TWI 4.02-18-B	1220	708	292	139.7	860	750	98	36	17.3	A, B, D, E, F
TWI 4.02-23-B	1520	813	397	139.7	965	750	98	38	18.4	A, B, D, E, F
TWI 4.02-28-B	1520	946	502	139.7	1098	750	98	38	21.6	A, B, D, E, F
TWI 4.02-33-B	1520	1051	607	139.7	1203	750	98	38	22.4	A, B, D, E, F
TWI 4.02-40-B	1820	1309	789	139.7	1489	750	98	41	28.1	A, B, D, E, F
TWI 4.02-48-B	2120	1477	957	139.7	1657	750	98	41	29.4	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.02..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.02-09-B	1~230 V, 50 Hz	L	6042682	4064430	6037935
TWI 4.02-13-B	1~230 V, 50 Hz	L	6042684	4064430	6037935
TWI 4.02-18-B	1~230 V, 50 Hz	L	6042685	4064431	6037936
TWI 4.02-23-B	1~230 V, 50 Hz	K	6042686	4064431	6037936
TWI 4.02-28-B	1~230 V, 50 Hz	K	6042687	4064431	6037936
TWI 4.02-33-B	1~230 V, 50 Hz	K	6042688	4064431	6037936
TWI 4.02-40-B	1~230 V, 50 Hz	K	6042693	4064431	6037936
TWI 4.02-48-B	1~230 V, 50 Hz	K	6042695	4064431	6037936

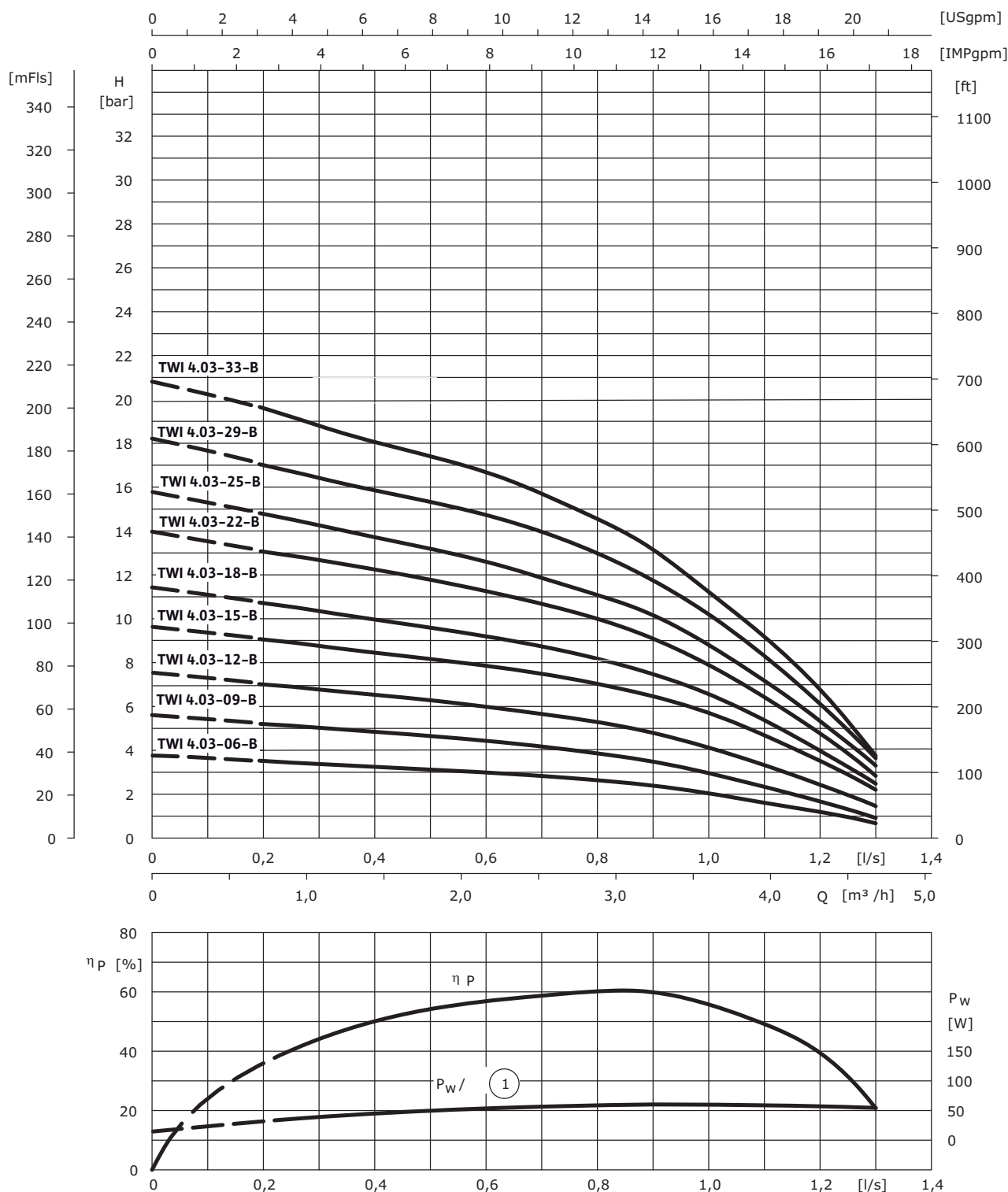
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.03..-B (1~230 V)

Pump curves Wilo-Sub TWI 4.03..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.03..-B (1~230 V)

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.03-06-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.03-09-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4G1.5
TWI 4.03-12-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.03-15-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.03-18-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.03-22-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.03-25-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.03-29-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.03-33-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.03...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.03...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

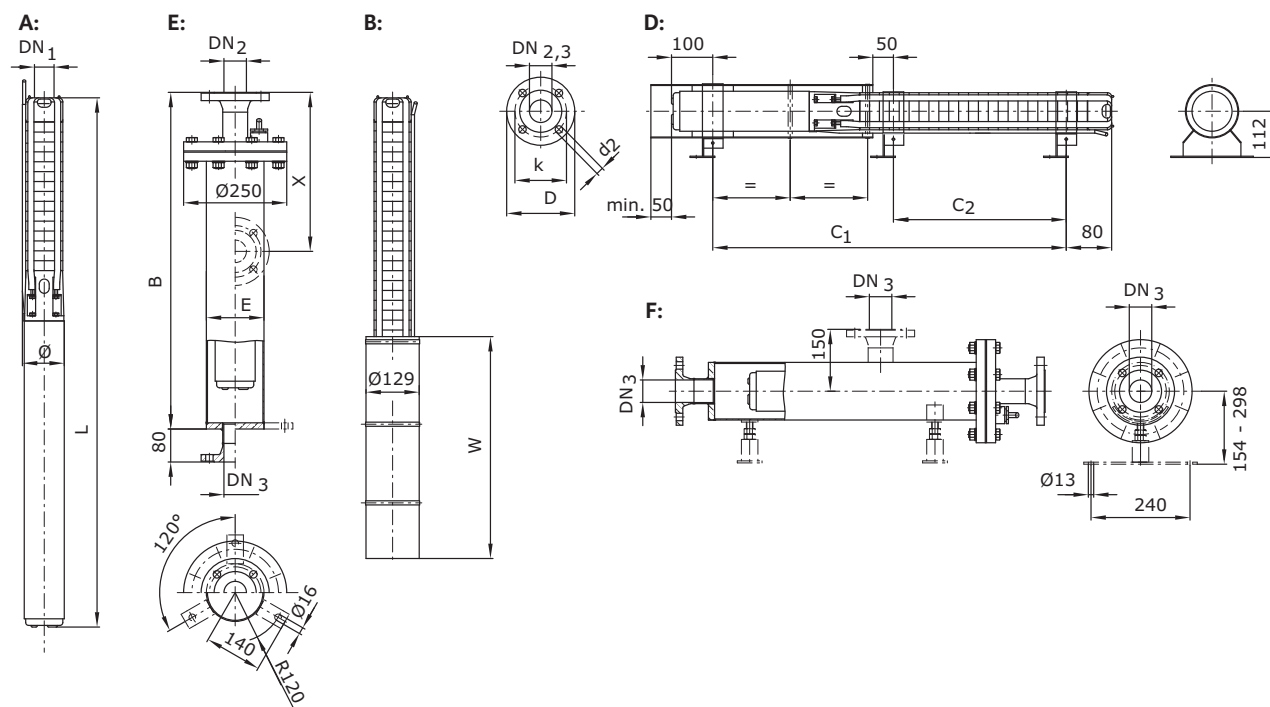
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.03..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	–
	[mm]							[kg]		–
TWI 4.03-06-B	920	371	–	139.7	551	500	98	33	12.2	A, B, D, E, F
TWI 4.03-09-B	920	462	–	139.7	642	500	98	33	14.3	A, B, D, E, F
TWI 4.03-12-B	1220	582	–	139.7	734	750	98	36	16.1	A, B, D, E, F
TWI 4.03-15-B	1220	645	229	139.7	797	750	98	36	16.8	A, B, D, E, F
TWI 4.03-18-B	1220	736	292	139.7	888	750	98	36	19.7	A, B, D, E, F
TWI 4.03-22-B	1520	820	376	139.7	972	750	98	38	20.5	A, B, D, E, F
TWI 4.03-25-B	1520	959	439	139.7	1139	750	98	38	24.5	A, B, D, E, F
TWI 4.03-29-B	1520	1043	523	139.7	1223	750	98	38	25.4	A, B, D, E, F
TWI 4.03-33-B	1820	1127	607	139.7	1307	750	98	41	26.1	A, B, D, E, F

¹⁾ On request, ²⁾ -, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.03..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.03-06-B	1~230 V, 50 Hz	L	6042696	4064430	6037935
TWI 4.03-09-B	1~230 V, 50 Hz	L	6042697	4064430	6037935
TWI 4.03-12-B	1~230 V, 50 Hz	L	6042698	4064431	6037937
TWI 4.03-15-B	1~230 V, 50 Hz	L	6042699	4064431	6037936
TWI 4.03-18-B	1~230 V, 50 Hz	L	6042900	4064431	6037936
TWI 4.03-22-B	1~230 V, 50 Hz	L	6042901	4064431	6037936
TWI 4.03-25-B	1~230 V, 50 Hz	K	6042902	4064431	6037936
TWI 4.03-29-B	1~230 V, 50 Hz	K	6042903	4064431	6037936
TWI 4.03-33-B	1~230 V, 50 Hz	K	6042904	4064431	6037936

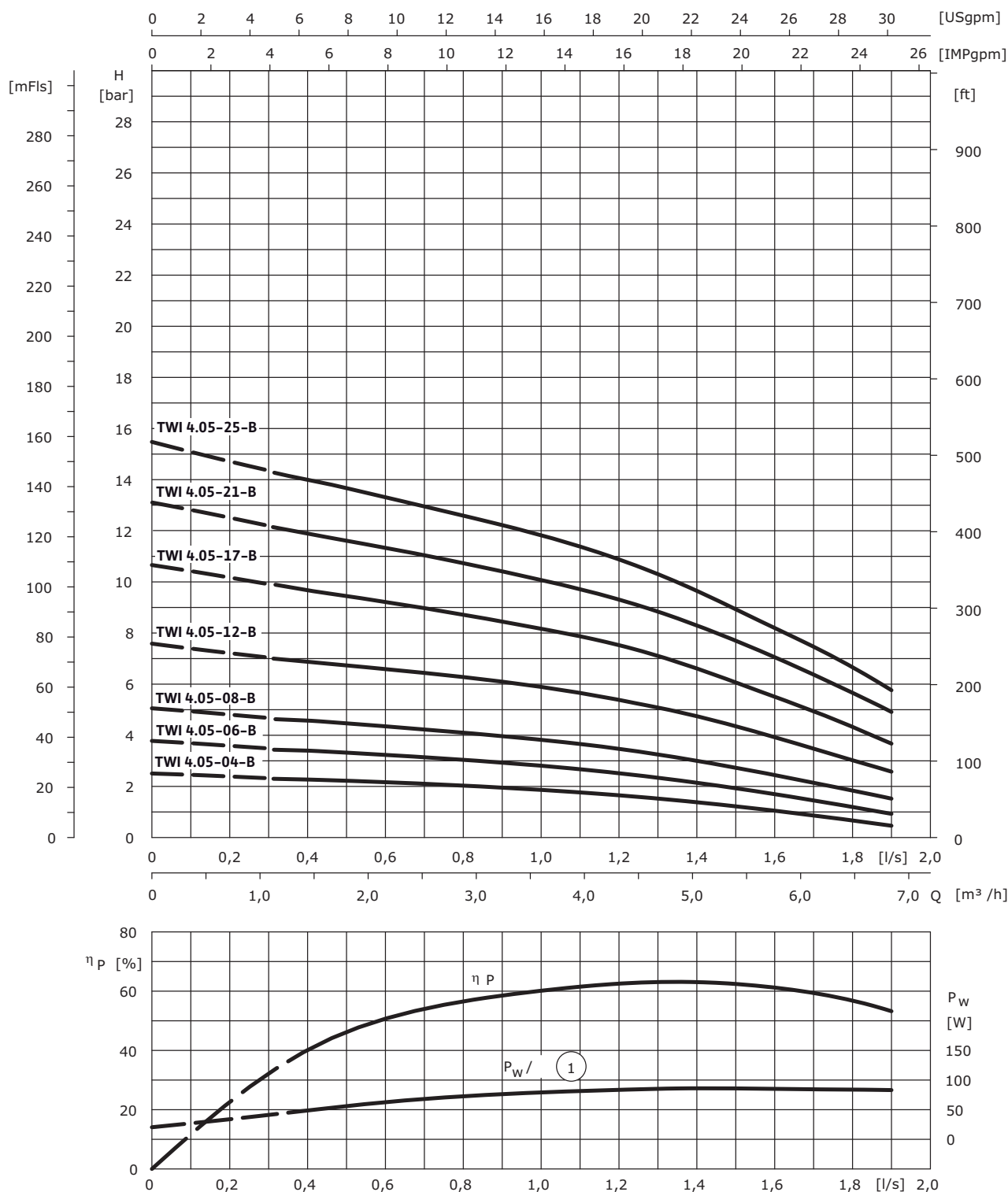
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilco-Sub TWI 4.05..-B (1~230 V)

Pump curves Wilco-Sub TWI 4.05..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.05..-B (1~230 V)

Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[*]	[kW]	[A]	[m]	[mm ²]
TWI 4.05-04-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.05-06-B	1~230 V, 50 Hz	4	0.55	4.3	1.5	4G1.5
TWI 4.05-08-B	1~230 V, 50 Hz	4	0.75	5.7	1.5	4G1.5
TWI 4.05-12-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.05-17-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.05-21-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.05-25-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5

Flange dimensions									
Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.05...	Rp 1½	–	–	10-40	–	–	–	–	–
TWI 4.05...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

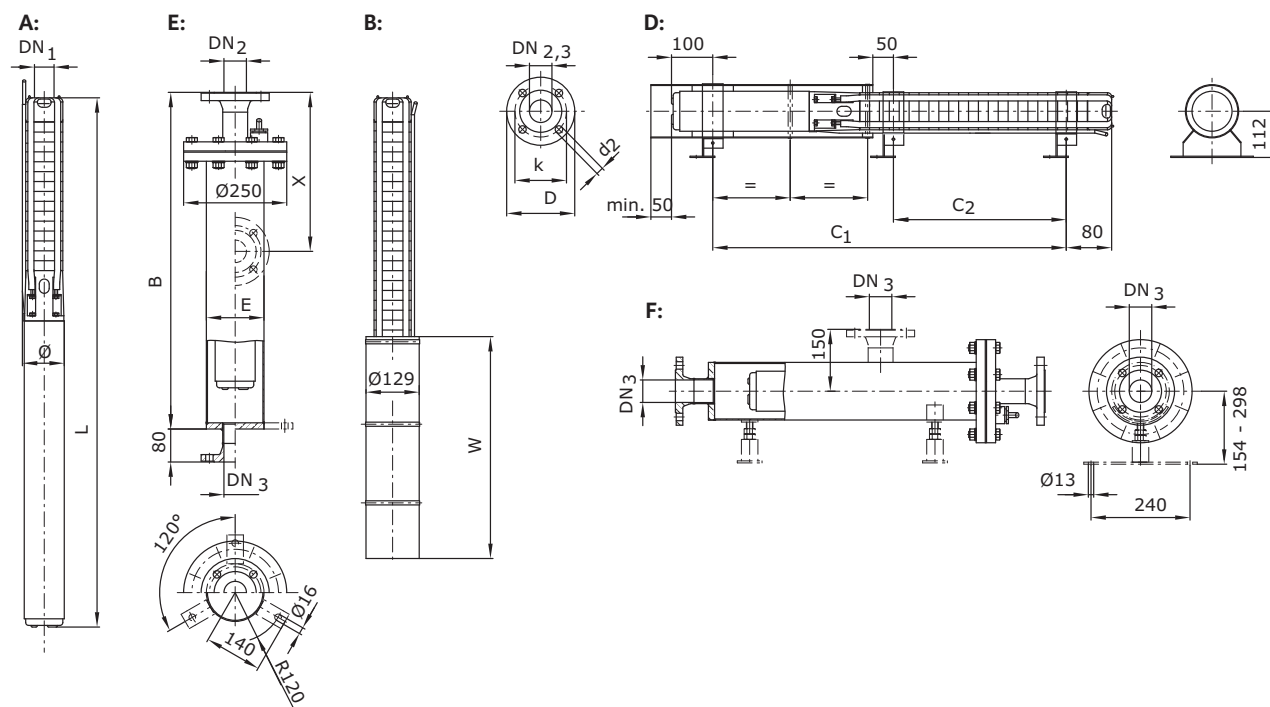
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.05..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]							[kg]		—
TWI 4.05-04-B	920	329	—	139.7	509	500	98	33	12	A, B, D, E, F
TWI 4.05-06-B	920	371	—	139.7	551	500	98	33	12.5	A, B, D, E, F
TWI 4.05-08-B	920	441	—	139.7	621	500	98	33	14.2	A, B, D, E, F
TWI 4.05-12-B	1220	610	—	139.7	762	750	98	36	18.4	A, B, D, E, F
TWI 4.05-17-B	1220	791	—	139.7	971	750	98	36	22.9	A, B, D, E, F
TWI 4.05-21-B	1520	875	355	139.7	1055	750	98	38	23.8	A, B, D, E, F
TWI 4.05-25-B	1520	959	439	139.7	1139	750	98	38	24.5	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.05..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.05-04-B	1~230 V, 50 Hz	L	6042905	4064430	6037935
TWI 4.05-06-B	1~230 V, 50 Hz	L	6043573	4064430	6037935
TWI 4.05-08-B	1~230 V, 50 Hz	L	6042906	4064430	6037935
TWI 4.05-12-B	1~230 V, 50 Hz	L	6043574	4064431	6037937
TWI 4.05-17-B	1~230 V, 50 Hz	L	6042907	4064431	6037937
TWI 4.05-21-B	1~230 V, 50 Hz	L	6042908	4064431	6037936
TWI 4.05-25-B	1~230 V, 50 Hz	L	6042909	4064431	6037936

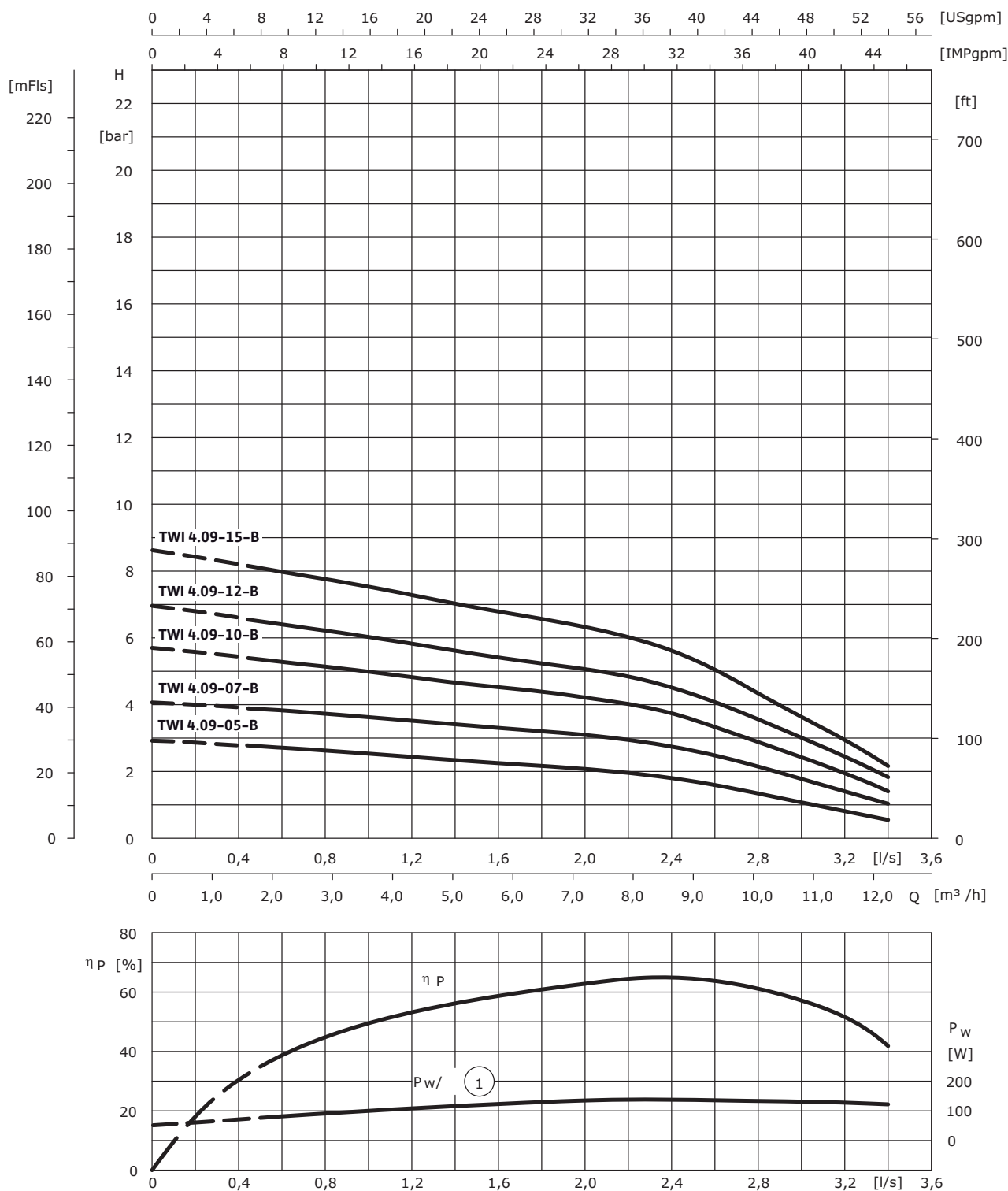
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.09..-B (1~230 V)

Pump curves Wilo-Sub TWI 4.09..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.09..-B (1~230 V)

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.09-05-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.09-07-B	1~230 V, 50 Hz	4	1.1	8.6	1.5	4G1.5
TWI 4.09-10-B	1~230 V, 50 Hz	4	1.5	10.6	1.5	4G1.5
TWI 4.09-12-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.09-15-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.09...	Rp 2	–	–	10-40	–	–	–	–	–
TWI 4.09...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

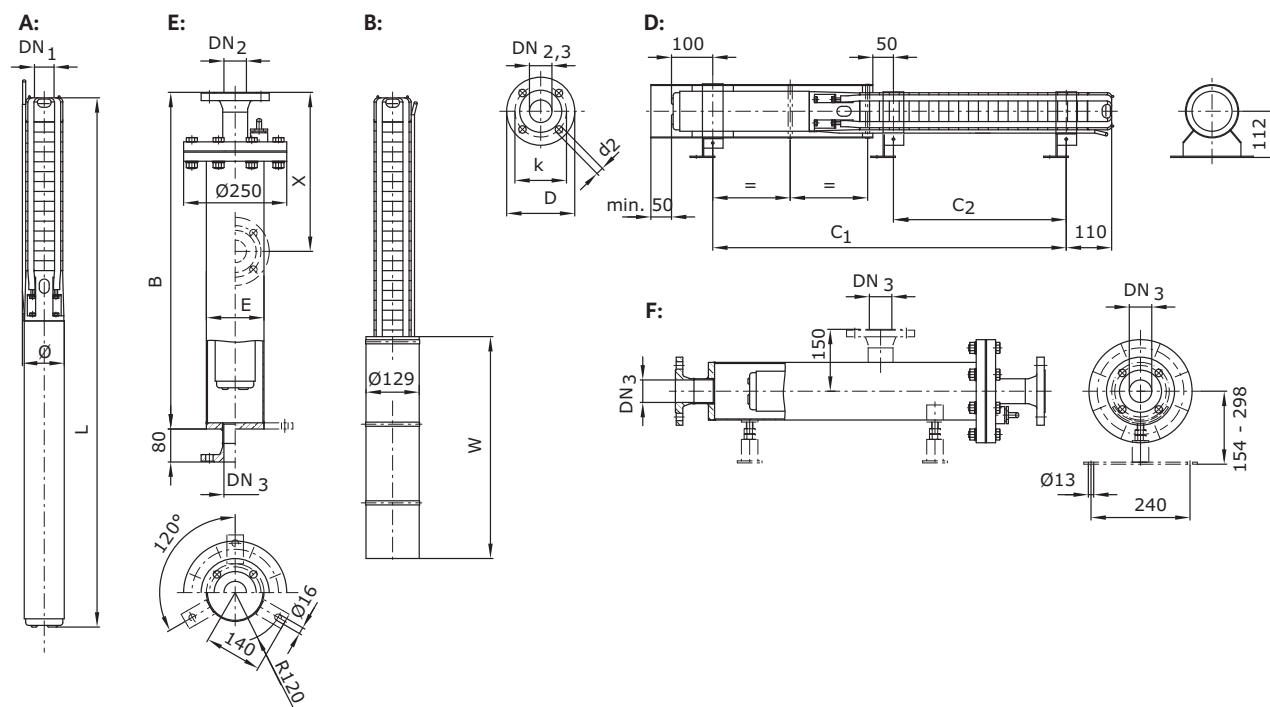
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.09..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	–
	[mm]							[kg]		–
TWI 4.09-05-B	1220	553	–	139.7	735	750	98	36	16.7	A, B, D, E, F
TWI 4.09-07-B	1220	637	–	139.7	819	750	98	36	17.7	A, B, D, E, F
TWI 4.09-10-B	1520	791	292	139.7	973	750	98	38	21.6	A, B, D, E, F
TWI 4.09-12-B	1520	951	376	139.7	1161	750	98	38	26.1	A, B, D, E, F
TWI 4.09-15-B	1820	1077	502	139.7	1287	750	98	41	27.5	A, B, D, E, F

¹⁾ On request, ²⁾ - ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.09..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.09-05-B	1~230 V, 50 Hz	L	6042910	4064431	6037937
TWI 4.09-07-B	1~230 V, 50 Hz	L	6042911	4064431	6037937
TWI 4.09-10-B	1~230 V, 50 Hz	L	6042912	4064431	6037936
TWI 4.09-12-B	1~230 V, 50 Hz	L	6043575	4064431	6037936
TWI 4.09-15-B	1~230 V, 50 Hz	L	6042913	4064431	6037936

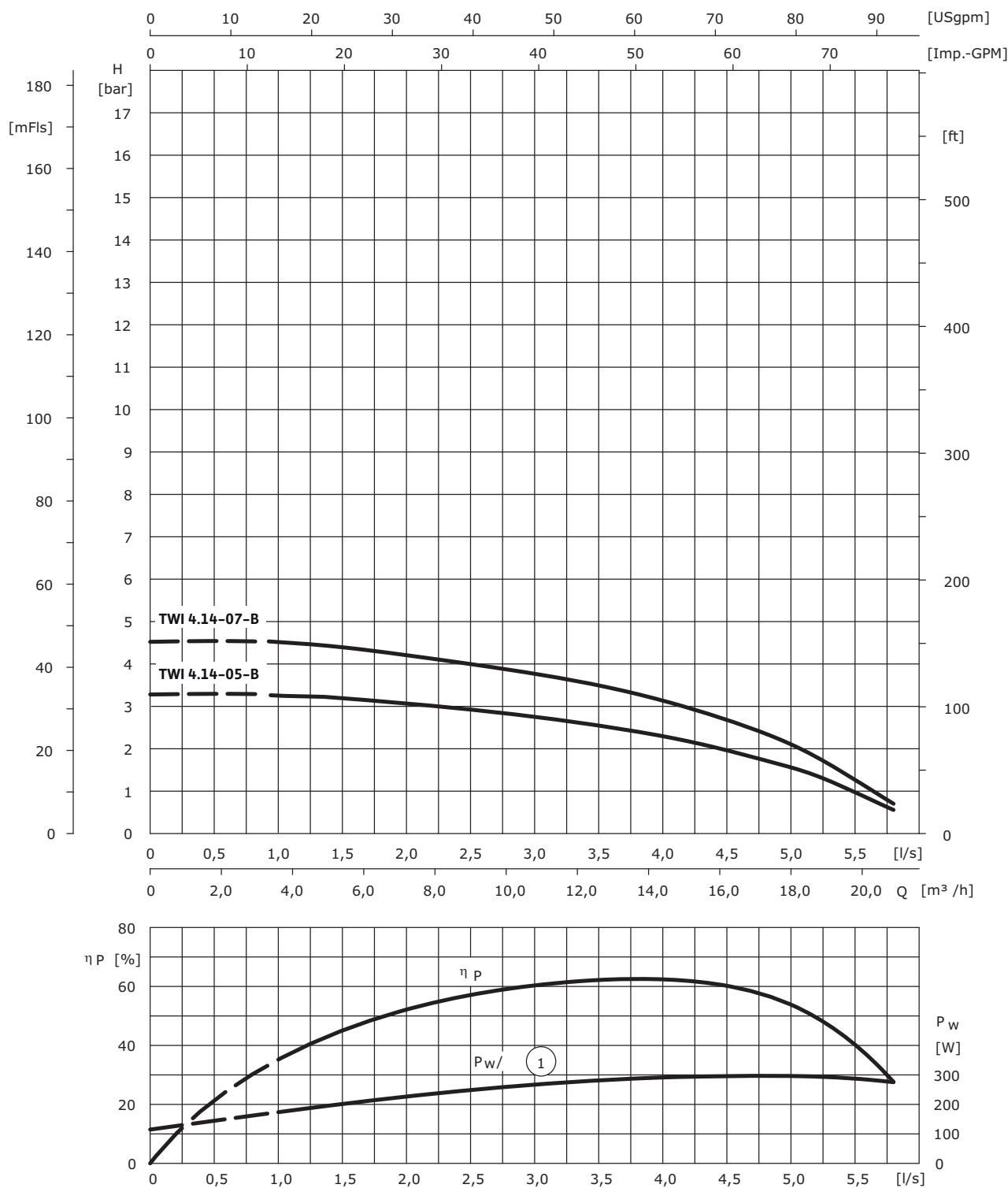
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.14..-B (1~230 V)

Pump curves Wilo-Sub TWI 4.14..-B (1~230 V)



1~230 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.14..-B (1~230 V)

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[*]	[kW]	[A]	[m]	[mm ²]
TWI 4.14-05-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5
TWI 4.14-07-B	1~230 V, 50 Hz	4	2.2	15.5	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.14...	Rp 2	–	–	10-40	–	–	–	–	–
TWI 4.14...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

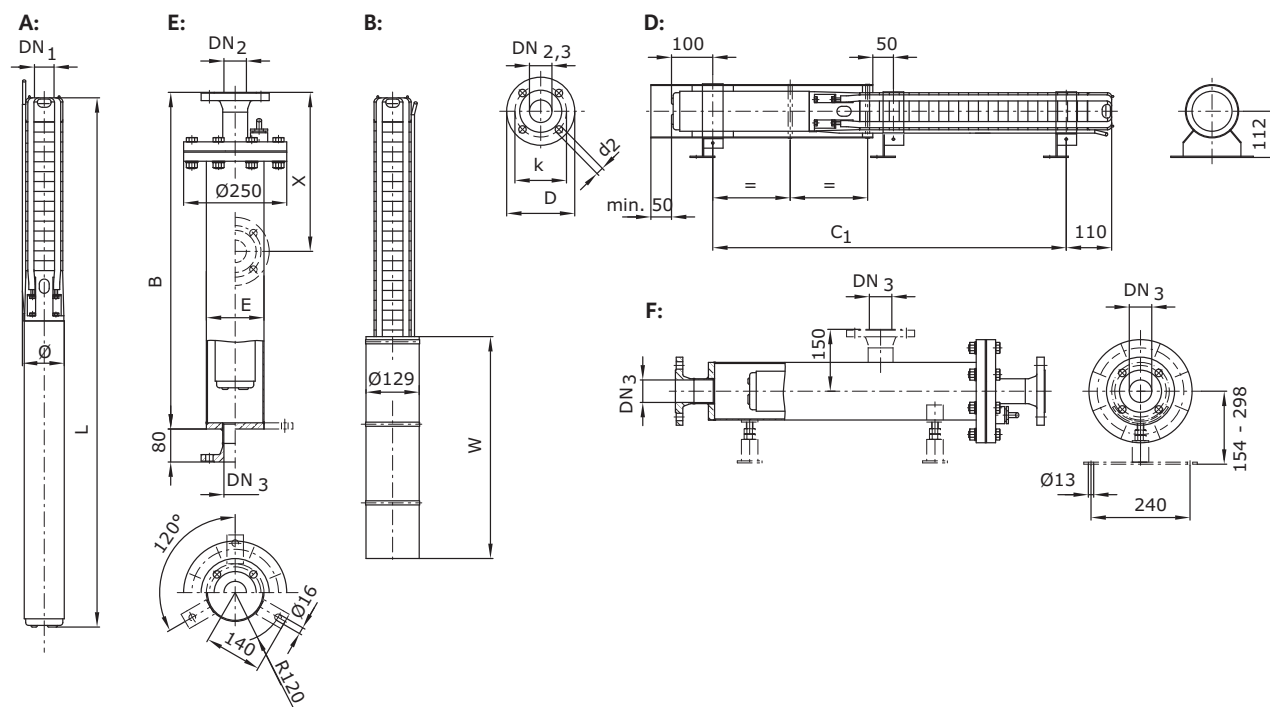
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.14..-B (1~230 V)

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions						Weight		Installation
	B	C ₁	E	L	W	Ø ³⁾	Shroud*	Unit	
	[mm]						[kg]		-
TWI 4.14-05-B	1220	756	139.7	966	750	98	36	23.6	A, B, D, E, F
TWI 4.14-07-B	1520	886	139.7	1096	750	98	38	24.9	A, B, D, E, F

¹⁾ On request, ²⁾ -, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.14..-B (1~230 V)

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.14-05-B	1~230 V, 50 Hz	L	6042914	4064431	6037937
TWI 4.14-07-B	1~230 V, 50 Hz	L	6042915	4064431	6037937

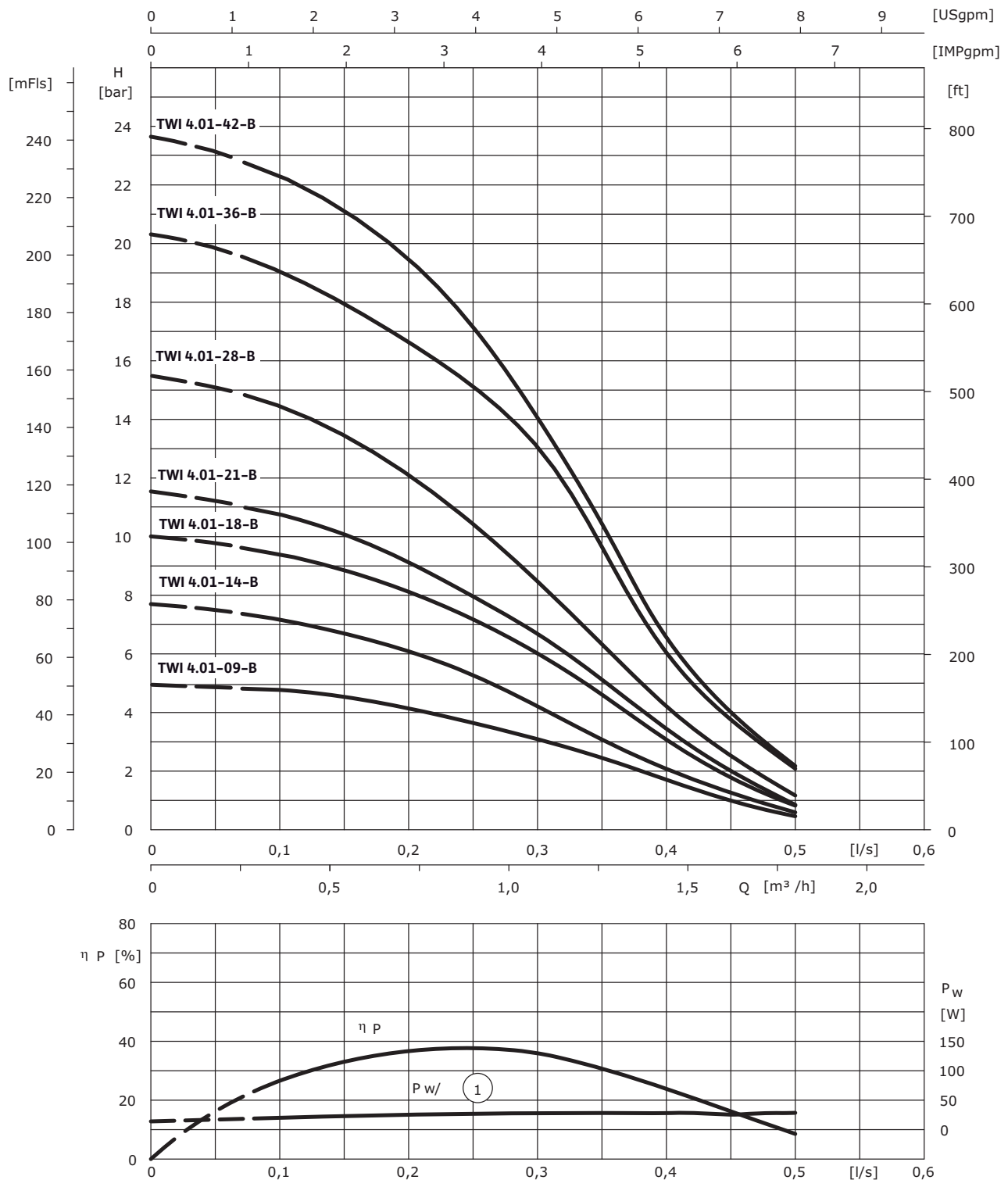
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.01..-B

Pump curves Wilo-Sub TWI 4.01..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.01..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.01-09-B	3~400 V, 50 Hz	4	0.37	1.1	1.5	4G1.5
TWI 4.01-14-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.01-18-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.01-21-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4G1.5
TWI 4.01-28-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.01-36-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.01-42-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.01...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.01...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

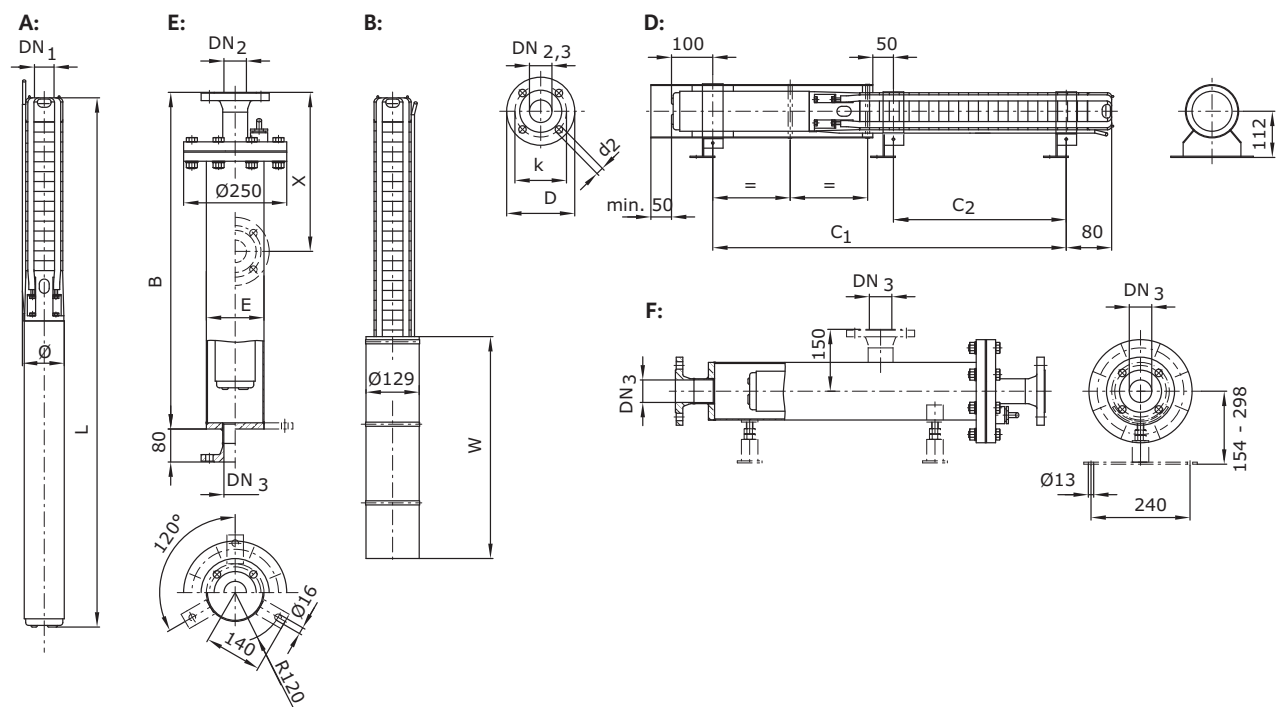
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.01..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]							[kg]		—
TWI 4.01-09-B	920	393	—	139.7	573	500	98	33	11.1	A, B, D, E, F
TWI 4.01-14-B	1220	539	230	139.7	697	500	98	36	13	A, B, D, E, F
TWI 4.01-18-B	1220	633	324	139.7	781	500	98	36	13.8	A, B, D, E, F
TWI 4.01-21-B	1220	692	355	139.7	872	500	98	36	15.6	A, B, D, E, F
TWI 4.01-28-B	1520	867	502	139.7	1047	500	98	38	18.4	A, B, D, E, F
TWI 4.01-36-B	1520	1070	705	139.7	1250	500	98	38	20.5	A, B, D, E, F
TWI 4.01-42-B	1820	1225	831	139.7	1405	500	98	41	23	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.01..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.01-09-B	3~400 V, 50 Hz	L	6043546	4064430	6037935
TWI 4.01-14-B	3~400 V, 50 Hz	L	6043547	4064430	6038901
TWI 4.01-18-B	3~400 V, 50 Hz	L	6043548	4064430	6038901
TWI 4.01-21-B	3~400 V, 50 Hz	L	6043549	4064430	6038901
TWI 4.01-28-B	3~400 V, 50 Hz	L	6043550	4064430	6038901
TWI 4.01-36-B	3~400 V, 50 Hz	K	6043551	4064430	6038901
TWI 4.01-42-B	3~400 V, 50 Hz	K	6043552	4064430	6038901

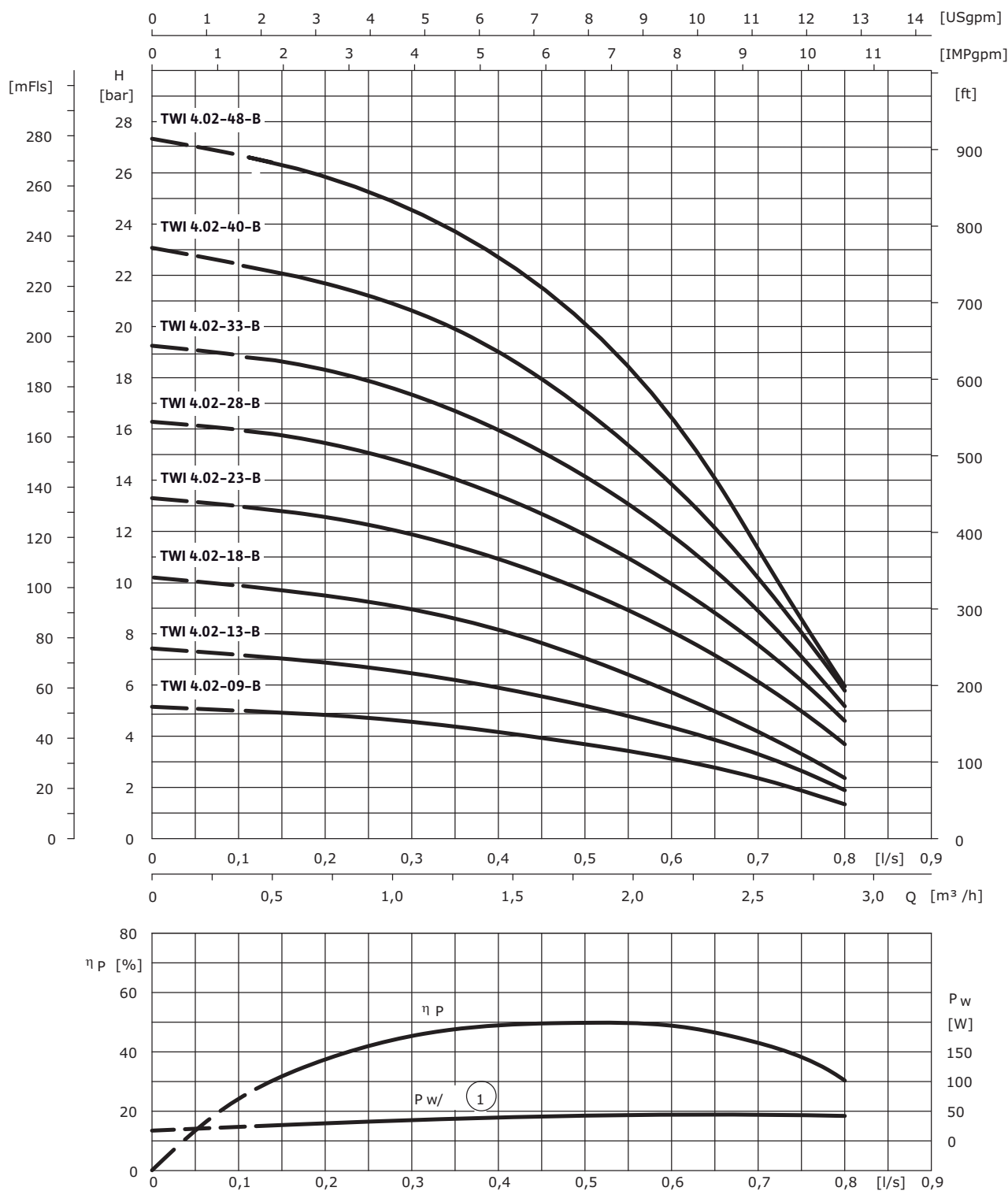
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.02..-B

Pump curves Wilo-Sub TWI 4.02..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.02..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.02-09-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.02-13-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4G1.5
TWI 4.02-18-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.02-23-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.02-28-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.02-33-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.02-40-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.02-48-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.02...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.02...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

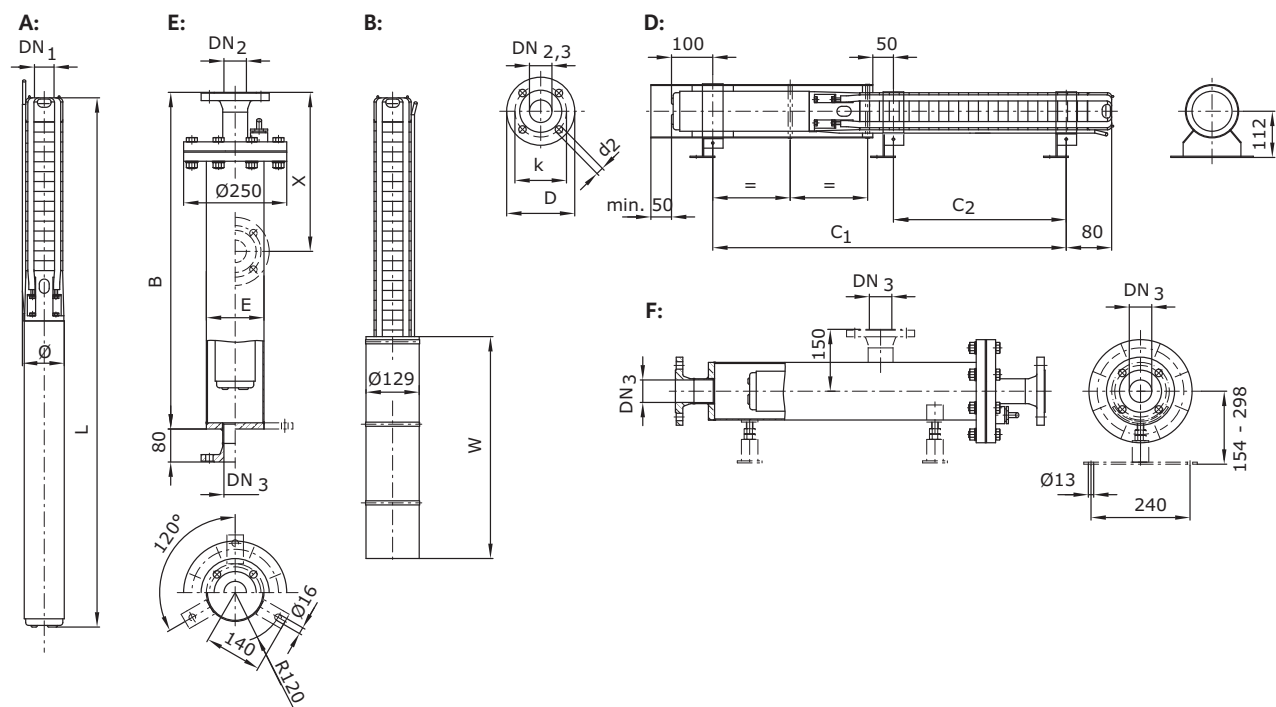
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.02..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Mantel*	Unit	
	[mm]							[kg]		—
TWI 4.02-09-B	920	434	—	139.7	592	500	98	33	11.9	A, B, D, E, F
TWI 4.02-13-B	1220	524	187	139.7	704	500	98	36	14	A, B, D, E, F
TWI 4.02-18-B	1220	657	292	139.7	837	500	98	36	16.3	A, B, D, E, F
TWI 4.02-23-B	1220	762	397	139.7	942	500	98	36	17.4	A, B, D, E, F
TWI 4.02-28-B	1520	896	502	139.7	1076	500	98	38	19.4	A, B, D, E, F
TWI 4.02-33-B	1520	1001	607	139.7	1181	500	98	38	20.2	A, B, D, E, F
TWI 4.02-40-B	1820	1211	789	139.7	1391	750	98	41	23.8	A, B, D, E, F
TWI 4.02-48-B	1820	1379	957	139.7	1559	750	98	41	25.1	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.02..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—				
TWI 4.02-09-B	3~400 V, 50 Hz	L	6042944	4064430	6037935
TWI 4.02-13-B	3~400 V, 50 Hz	L	6042945	4064430	6038901
TWI 4.02-18-B	3~400 V, 50 Hz	L	6042946	4064430	6038901
TWI 4.02-23-B	3~400 V, 50 Hz	K	6042947	4064430	6038901
TWI 4.02-28-B	3~400 V, 50 Hz	K	6042948	4064430	6038901
TWI 4.02-33-B	3~400 V, 50 Hz	K	6042949	4064430	6038901
TWI 4.02-40-B	3~400 V, 50 Hz	K	6042950	4064431	6037936
TWI 4.02-48-B	3~400 V, 50 Hz	K	6042951	4064431	6037936

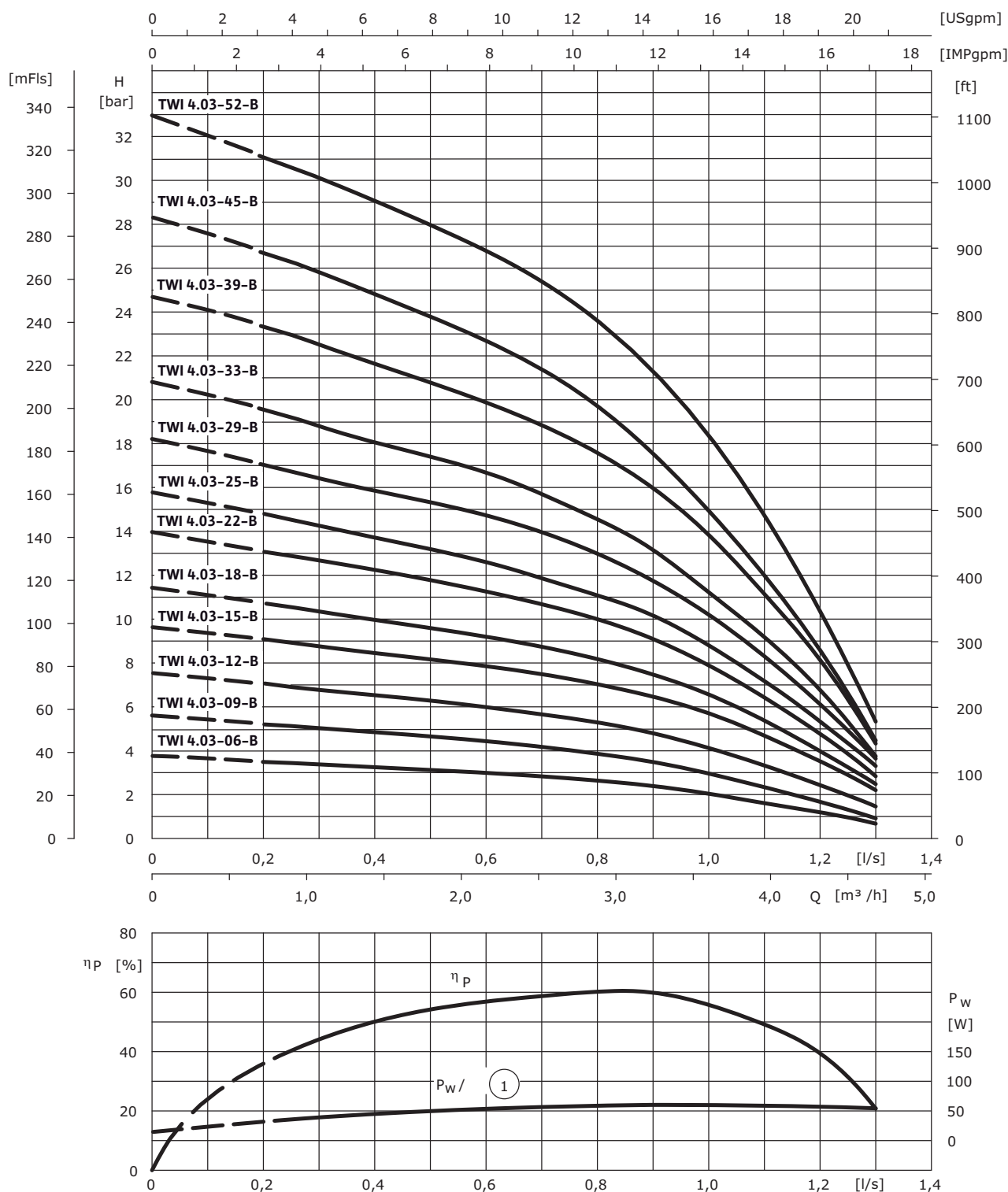
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.03..-B

Pump curves Wilo-Sub TWI 4.03..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.03..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[*]	[kW]	[A]	[m]	[mm ²]
TWI 4.03-06-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.03-09-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4G1.5
TWI 4.03-12-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.03-15-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.03-18-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.03-22-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.03-25-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.03-29-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.03-33-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.03-39-B	3~400 V, 50 Hz	4	3	7.8	1.5	4G1.5
TWI 4.03-45-B	3~400 V, 50 Hz	4	3	7.8	1.5	4G1.5
TWI 4.03-52-B	3~400 V, 50 Hz	4	3.7	9.1	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.03...	Rp 1¼	–	–	10-40	–	–	–	–	–
TWI 4.03...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

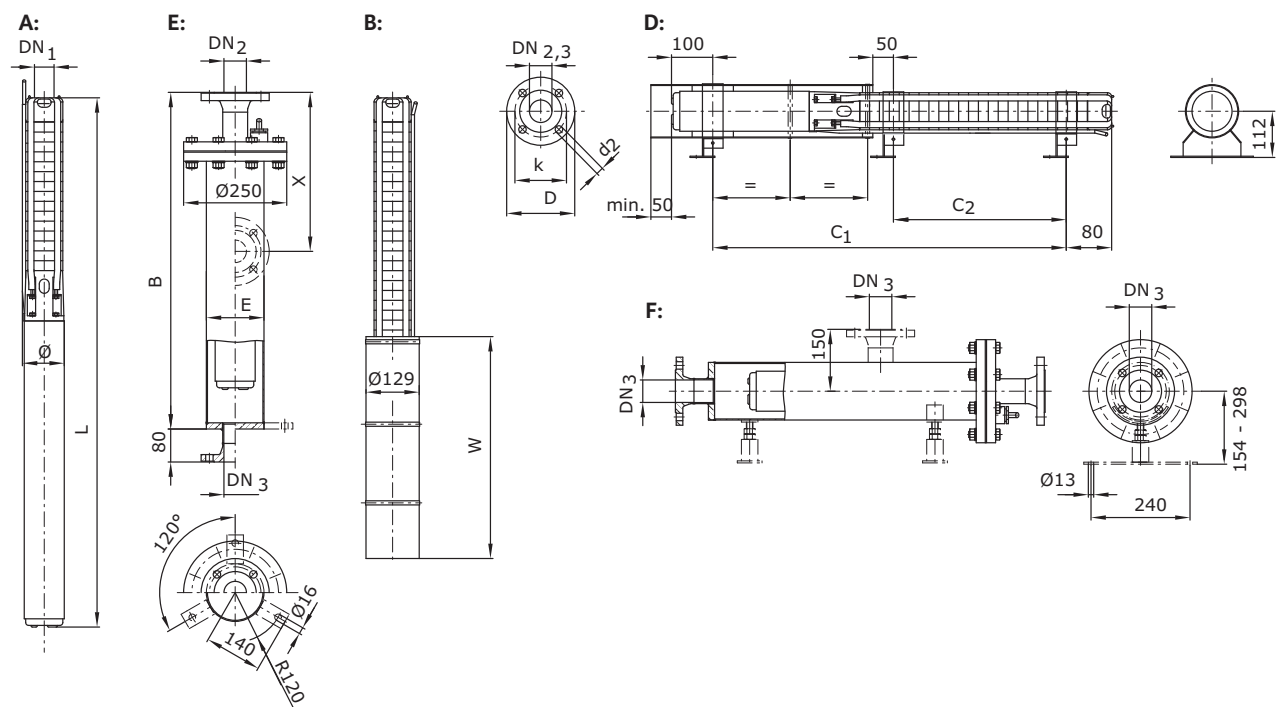
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.03..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]							[kg]		—
TWI 4.03-06-B	920	371	—	139.7	529	500	98	33	11.3	A, B, D, E, F
TWI 4.03-09-B	920	440	—	139.7	620	500	98	33	13.1	A, B, D, E, F
TWI 4.03-12-B	1220	531	—	139.7	711	500	98	36	15.1	A, B, D, E, F
TWI 4.03-15-B	1220	594	229	139.7	774	500	98	36	15.8	A, B, D, E, F
TWI 4.03-18-B	1220	686	292	139.7	866	500	98	36	17.5	A, B, D, E, F
TWI 4.03-22-B	1220	770	376	139.7	950	500	98	36	18.3	A, B, D, E, F
TWI 4.03-25-B	1520	861	439	139.7	1041	750	98	38	20.2	A, B, D, E, F
TWI 4.03-29-B	1520	945	523	139.7	1125	750	98	38	21.1	A, B, D, E, F
TWI 4.03-33-B	1520	1029	607	139.7	1209	750	98	38	21.8	A, B, D, E, F
TWI 4.03-39-B	1820	1327	753	139.7	1507	750	98	41	29.4	A, B, D, E, F
TWI 4.03-45-B	2120	1468	894	139.7	1648	750	98	44	30.4	A, B, D, E, F
TWI 4.03-52-B	2120	1655	1041	139.7	1835	750	98	44	34.9	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.03..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.03-06-B	3~400 V, 50 Hz	L	6042952	4064430	6037935
TWI 4.03-09-B	3~400 V, 50 Hz	L	6042953	4064430	6037935
TWI 4.03-12-B	3~400 V, 50 Hz	L	6042954	4064430	6037935
TWI 4.03-15-B	3~400 V, 50 Hz	L	6042955	4064430	6038901
TWI 4.03-18-B	3~400 V, 50 Hz	L	6042956	4064430	6038901
TWI 4.03-22-B	3~400 V, 50 Hz	L	6042957	4064430	6038901
TWI 4.03-25-B	3~400 V, 50 Hz	L	6042958	4064431	6037936
TWI 4.03-29-B	3~400 V, 50 Hz	L	6042959	4064431	6037936
TWI 4.03-33-B	3~400 V, 50 Hz	L	6042960	4064431	6037936
TWI 4.03-39-B	3~400 V, 50 Hz	K	6042961	4064431	6037936
TWI 4.03-45-B	3~400 V, 50 Hz	K	6042962	4064431	6037936
TWI 4.03-52-B	3~400 V, 50 Hz	K	6042963	4064431	6037936

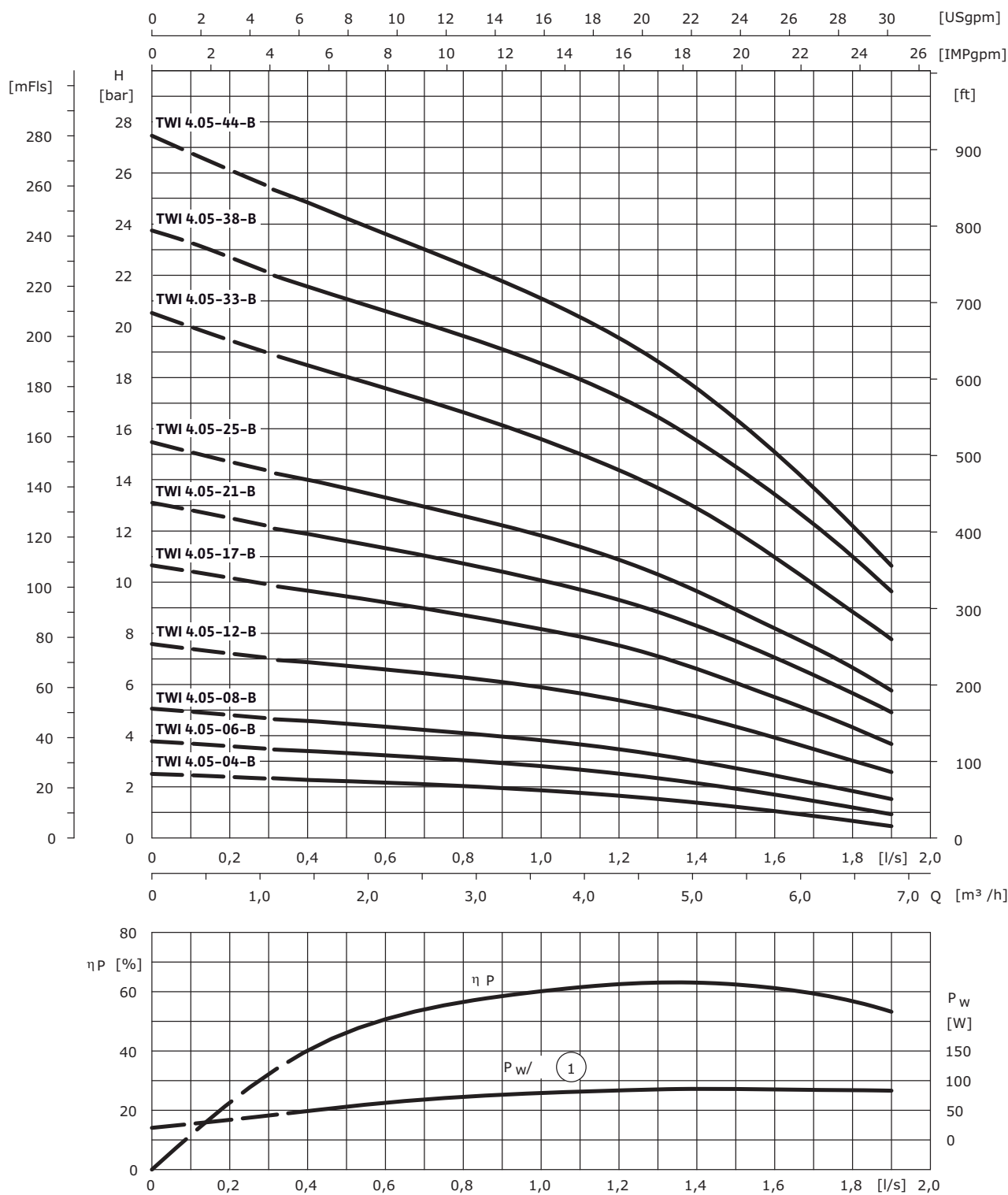
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.05..-B

Pump curves Wilo-Sub TWI 4.05..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.05...-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.05-04-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.05-06-B	3~400 V, 50 Hz	4	0.55	1.6	1.5	4G1.5
TWI 4.05-08-B	3~400 V, 50 Hz	4	0.75	2.1	1.5	4G1.5
TWI 4.05-12-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.05-17-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.05-21-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.05-25-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.05-33-B	3~400 V, 50 Hz	4	3	7.8	1.5	4G1.5
TWI 4.05-38-B	3~400 V, 50 Hz	4	3.7	9.1	1.5	4G1.5
TWI 4.05-44-B	3~400 V, 50 Hz	4	4	10	1.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.05...	Rp 1½	–	–	10-40	–	–	–	–	–
TWI 4.05...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

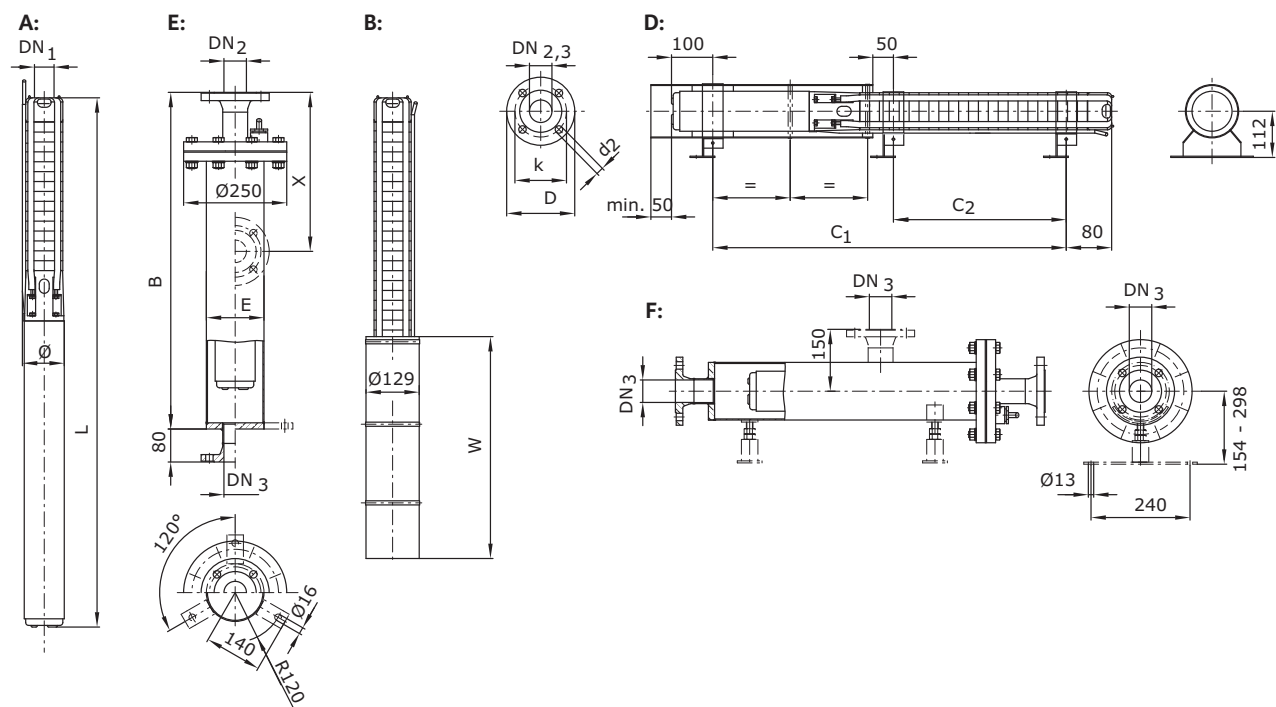
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.05..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions							Weight		Installation
	B	C ₁	C ₂	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]							[kg]		—
TWI 4.05-04-B	920	329	—	139.7	509	500	98	33	11	A, B, D, E, F
TWI 4.05-06-B	920	371	—	139.7	529	500	98	33	11.6	A, B, D, E, F
TWI 4.05-08-B	920	419	—	139.7	599	500	98	33	13	A, B, D, E, F
TWI 4.05-12-B	1220	560	—	139.7	740	500	98	36	16.2	A, B, D, E, F
TWI 4.05-17-B	1220	693	271	139.7	873	750	98	36	18.6	A, B, D, E, F
TWI 4.05-21-B	1220	777	355	139.7	957	750	98	36	19.5	A, B, D, E, F
TWI 4.05-25-B	1520	861	439	139.7	1041	750	98	38	20.2	A, B, D, E, F
TWI 4.05-33-B	1820	1181	607	139.7	1361	750	98	41	27.5	A, B, D, E, F
TWI 4.05-38-B	1820	1367	753	139.7	1506	750	98	41	32.1	A, B, D, E, F
TWI 4.05-44-B	2120	1508	858	139.7	1668	750	98	44	34.8	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps



Wilo-Sub TWI 4.05..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.05-04-B	3~400 V, 50 Hz	L	6042964	4064430	6037935
TWI 4.05-06-B	3~400 V, 50 Hz	L	6043553	4064430	6037935
TWI 4.05-08-B	3~400 V, 50 Hz	L	6042965	4064430	6037935
TWI 4.05-12-B	3~400 V, 50 Hz	L	6043554	4064430	6037935
TWI 4.05-17-B	3~400 V, 50 Hz	L	6042966	4064431	6037936
TWI 4.05-21-B	3~400 V, 50 Hz	L	6042967	4064431	6037936
TWI 4.05-25-B	3~400 V, 50 Hz	L	6042968	4064431	6037936
TWI 4.05-33-B	3~400 V, 50 Hz	L	6042969	4064431	6037936
TWI 4.05-38-B	3~400 V, 50 Hz	K	6042970	4064431	6037936
TWI 4.05-44-B	3~400 V, 50 Hz	K	6042971	4064431	6037936

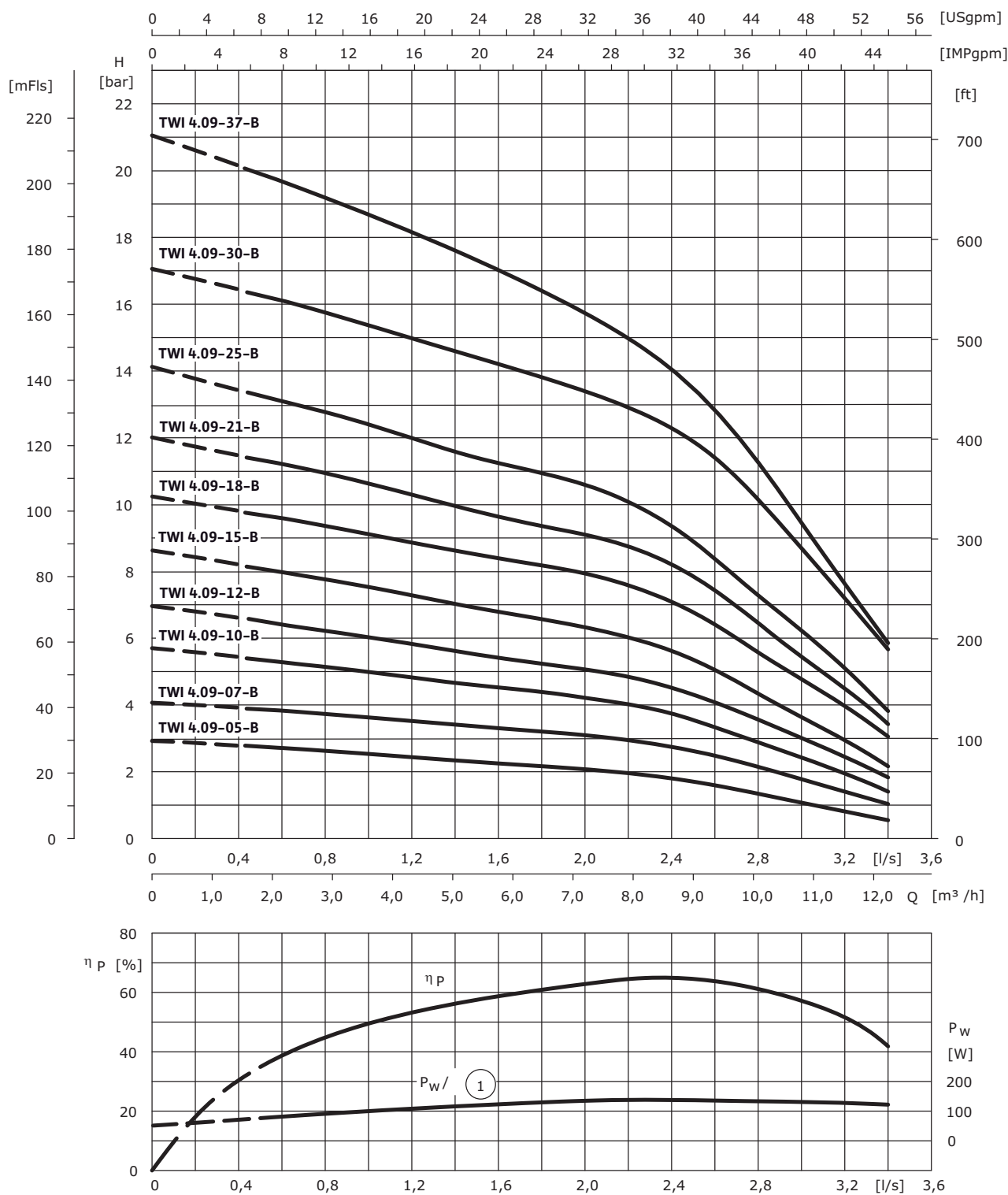
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.09..-B

Pump curves Wilo-Sub TWI 4.09..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.09..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	[°]	[kW]	[A]	[m]	[mm ²]
TWI 4.09-05-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.09-07-B	3~400 V, 50 Hz	4	1.1	3	1.5	4G1.5
TWI 4.09-10-B	3~400 V, 50 Hz	4	1.5	4	1.5	4G1.5
TWI 4.09-12-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.09-15-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.09-18-B	3~400 V, 50 Hz	4	3	7.8	1.5	4G1.5
TWI 4.09-21-B	3~400 V, 50 Hz	4	3.7	9.1	1.5	4G1.5
TWI 4.09-25-B	3~400 V, 50 Hz	4	3.7	9.1	1.5	4G1.5
TWI 4.09-30-B	3~400 V, 50 Hz	4	5.5	13.7	2.5	4G1.5
TWI 4.09-37-B	3~400 V, 50 Hz	4	5.5	13.7	2.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.09...	Rp 2	–	–	10-40	–	–	–	–	–
TWI 4.09...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

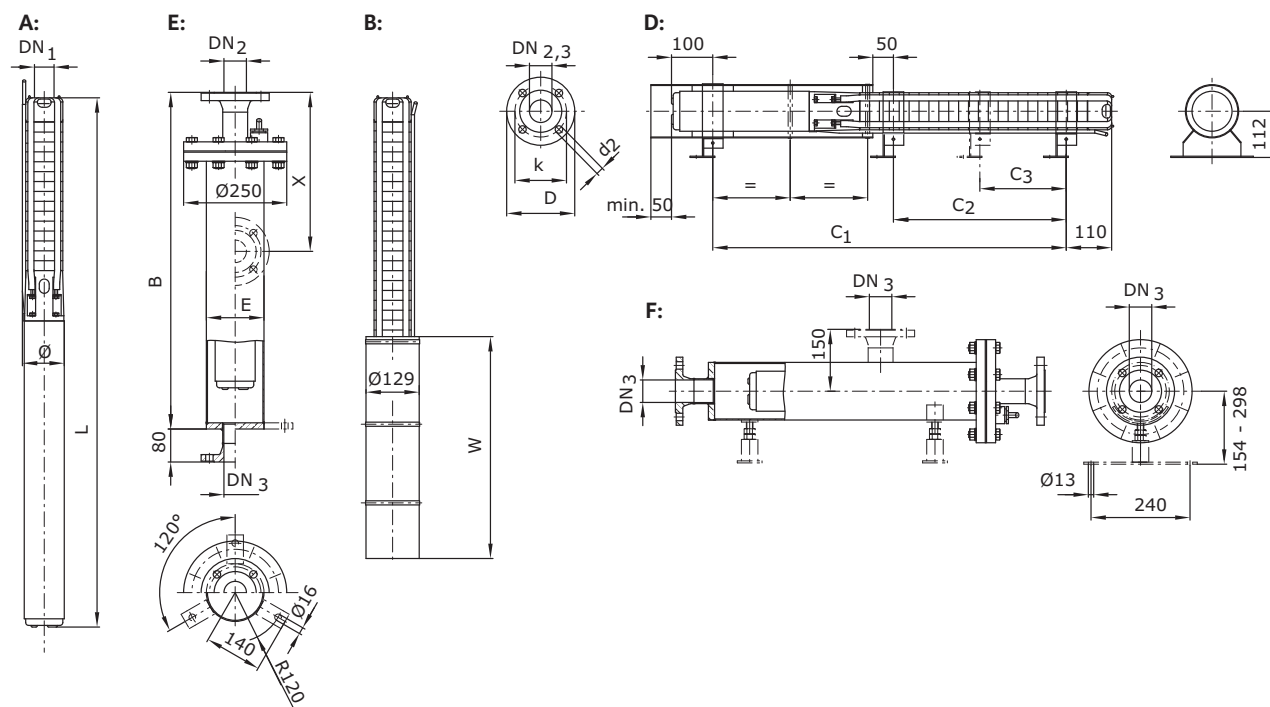
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.09..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions								Weight		Installation
	B	C ₁	C ₂	C ₃	E	L	W	Ø ³⁾	Shroud*	Unit	
	[mm]								[kg]		—
TWI 4.09-05-B	1220	502	—	—	139.7	712	750	98	36	15.7	A, B, D, E, F
TWI 4.09-07-B	1220	586	—	—	139.7	796	750	98	36	16.7	A, B, D, E, F
TWI 4.09-10-B	1220	741	292	—	139.7	951	750	98	36	19.7	A, B, D, E, F
TWI 4.09-12-B	1520	853	376	—	139.7	1063	750	98	38	21.8	A, B, D, E, F
TWI 4.09-15-B	1520	979	502	—	139.7	1189	750	98	38	23.2	A, B, D, E, F
TWI 4.09-18-B	1820	1257	628	—	139.7	1467	750	98	41	30.4	A, B, D, E, F
TWI 4.09-21-B	2120	1423	754	—	139.7	1633	1000	98	44	35.1	A, B, D, E, F
TWI 4.09-25-B	2120	1591	922	—	139.7	1801	1000	98	44	38.2	A, B, D, E, F
TWI 4.09-30-B	2420	1951	1132	566	139.7	2161	1000	98	46	47.1	A, B, D, E, F
TWI 4.09-37-B	2720	2245	1426	713	139.7	2455	1000	98	49	51.4	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps



Wilo-Sub TWI 4.09..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.09-05-B	3~400 V, 50 Hz	L	6042972	4064431	6037937
TWI 4.09-07-B	3~400 V, 50 Hz	L	6042973	4064431	6037937
TWI 4.09-10-B	3~400 V, 50 Hz	L	6042974	4064431	6037936
TWI 4.09-12-B	3~400 V, 50 Hz	L	6043555	4064431	6037936
TWI 4.09-15-B	3~400 V, 50 Hz	L	6042975	4064431	6037936
TWI 4.09-18-B	3~400 V, 50 Hz	L	6042976	4064431	6037936
TWI 4.09-21-B	3~400 V, 50 Hz	L	6042977	4064432	6038903
TWI 4.09-25-B	3~400 V, 50 Hz	L	6042978	4064432	6038903
TWI 4.09-30-B	3~400 V, 50 Hz	L	6042979	4064432	6038904
TWI 4.09-37-B	3~400 V, 50 Hz	K	6042980	4064432	6038904

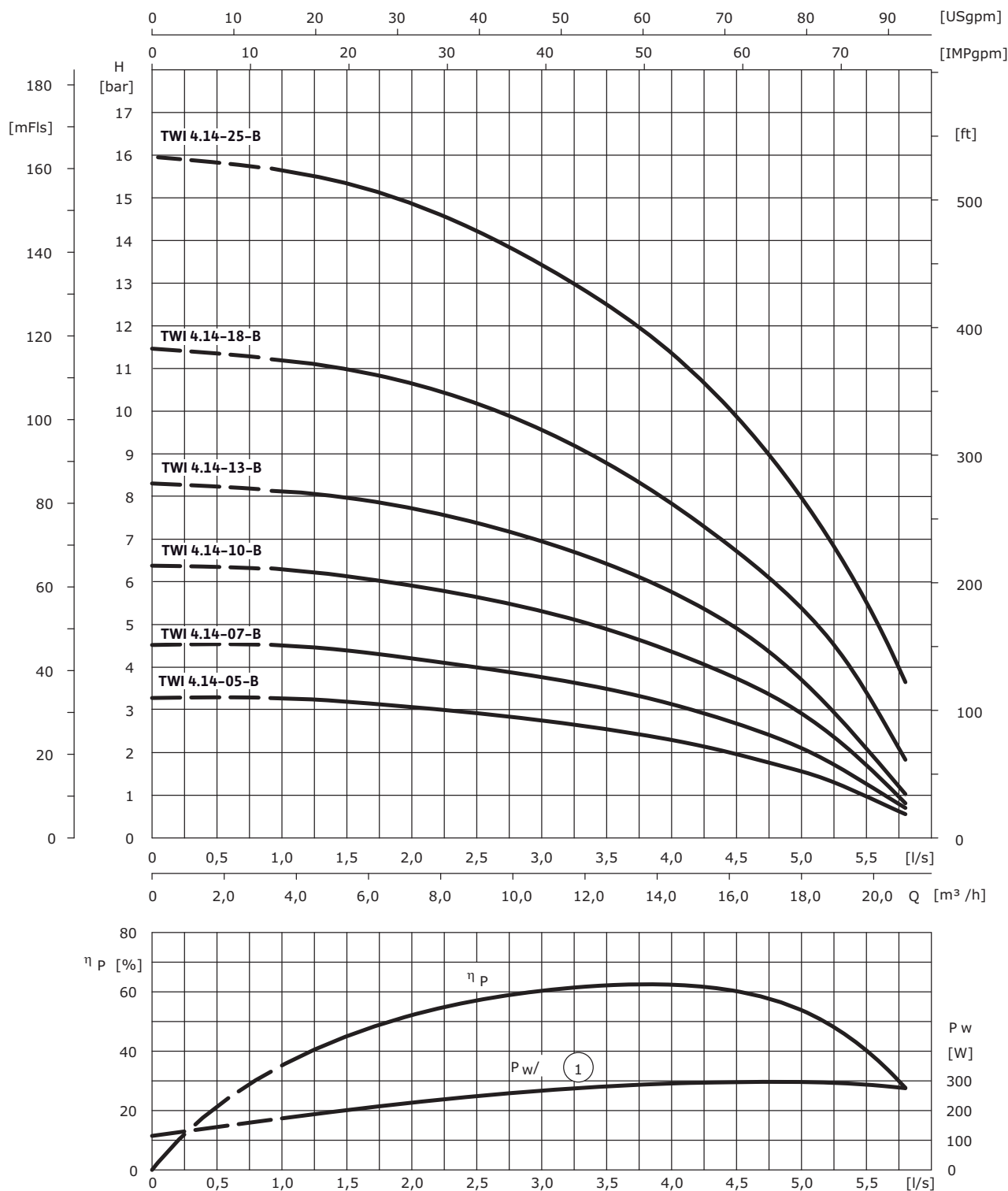
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.14..-B

Pump curves Wilo-Sub TWI 4.14..-B



3~400 V, 50 Hz, $\rho = 1 \text{ kg/dm}^3$, $\nu = 1 \times 10^{-6} \text{ m}^2/\text{s}$, ISO 9006 Annex A; $P_w/1$ is equivalent to the shaft power per stage

Wilo-Sub TWI 4.14..-B

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWI 4.14-05-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.14-07-B	3~400 V, 50 Hz	4	2.2	5.9	1.5	4G1.5
TWI 4.14-10-B	3~400 V, 50 Hz	4	3	7.8	1.5	4G1.5
TWI 4.14-13-B	3~400 V, 50 Hz	4	4	10	1.5	4G1.5
TWI 4.14-18-B	3~400 V, 50 Hz	4	5.5	13.7	1.5	4G1.5
TWI 4.14-25-B	3~400 V, 50 Hz	4	7.5	18.4	2.5	4G1.5

Flange dimensions

Wilo-Sub...	Connection			Pressure class			Dimensions		
	DN ₁	DN ₂	DN ₃	PN ₁	PN ₂	PN ₃	d ₂	k	D
	[mm]			[bar]			[mm]		
TWI 4.14...	Rp 2	–	–	10-40	–	–	–	–	–
TWI 4.14...	–	DN 50	DN 50	–	10-40	10	4x18	125	165

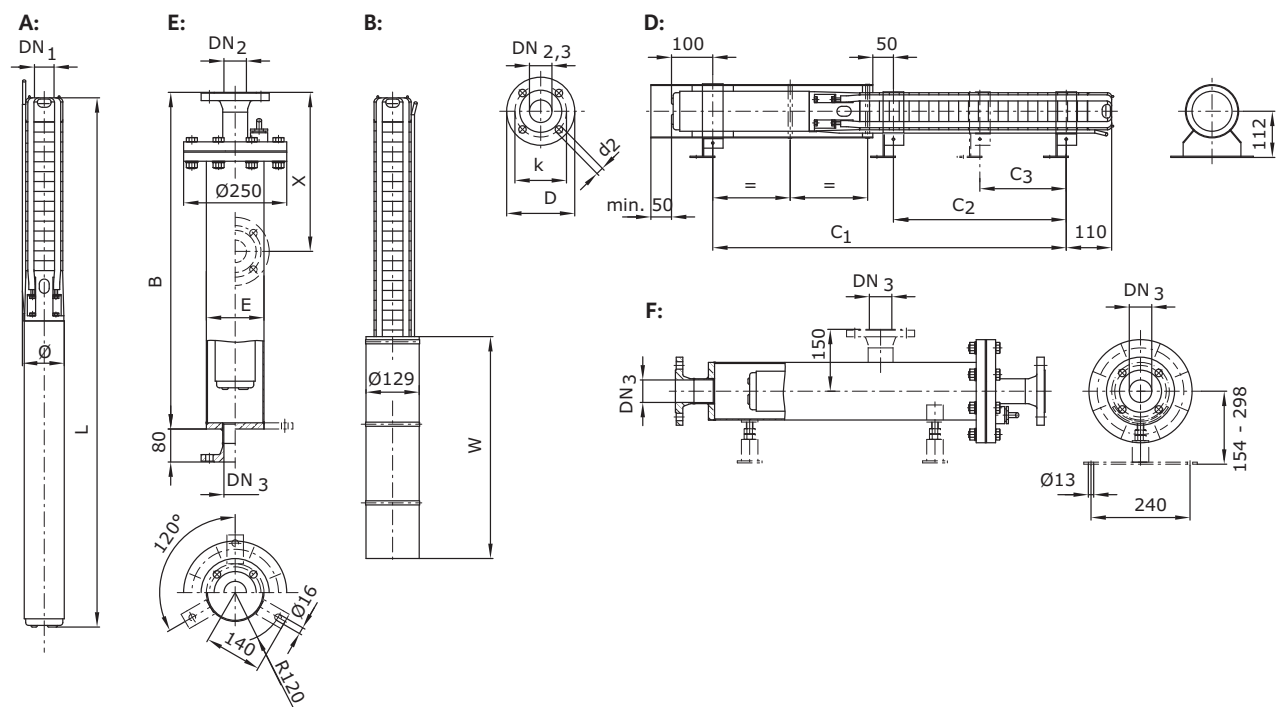
¹⁾ On request, ²⁾ –, ³⁾ For power cable to I_N, max. Ø for threaded connection,* Weight of pressure shroud

Pumps and systems for domestic water supply

Single pumps

Wilo-Sub TWI 4.14..-B

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Dimensions								Weight		Installation
	B	C ₁	C ₂	C ₃	E	L	W	Ø ³⁾	Shroud*	Unit	—
	[mm]								[kg]		—
TWI 4.14-05-B	1220	658	—	—	139.7	868	750	98	36	19	A, B, D, E, F
TWI 4.14-07-B	1520	788	291	—	139.7	998	750	98	38	20.3	A, B, D, E, F
TWI 4.14-10-B	1820	1135	486	—	139.7	1345	750	98	41	28.6	A, B, D, E, F
TWI 4.14-13-B	2120	1406	681	—	139.7	1616	1000	98	44	35.2	A, B, D, E, F
TWI 4.14-18-B	2420	1845	1006	—	139.7	2055	1000	98	46	44	A, B, D, E, F
TWI 4.14-25-B	2920	2376	1461	731	139.7	2586	1000	98	51	52.5	A, B, D, E, F

¹⁾ On request, ²⁾ —, ³⁾ For power cable to I_N, max. Ø for threaded connection, * Weight of pressure shroud

Wilo-Sub TWI 4.14..-B

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	-			for vertical installation (B)	for horizontal installation (D)
	-				
TWI 4.14-05-B	3~400 V, 50 Hz	L	6042981	4064431	6037937
TWI 4.14-07-B	3~400 V, 50 Hz	L	6042982	4064431	6037936
TWI 4.14-10-B	3~400 V, 50 Hz	L	6042983	4064431	6037936
TWI 4.14-13-B	3~400 V, 50 Hz	L	6042984	4064432	6038903
TWI 4.14-18-B	3~400 V, 50 Hz	L	6042985	4064432	6038903
TWI 4.14-25-B	3~400 V, 50 Hz	L	6042986	4064432	6038904

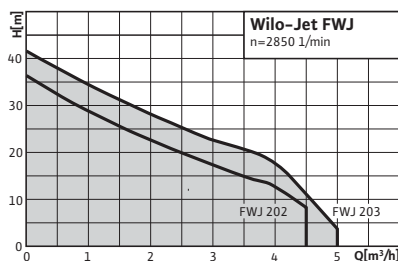
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Systems

Series overview Wilo-Jet FWJ, MultiCargo FMC

Series: Wilo-Jet FWJ



> Self-priming system

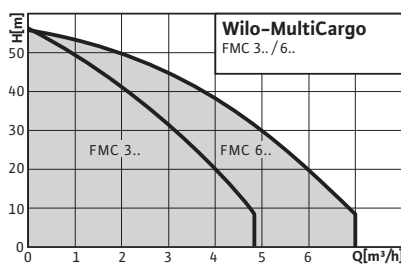
> Application:

Pumping water and rainwater from wells and tanks for:

- Sprinkling
- Irrigation and spraying



Series: Wilo-MultiCargo FMC



> Self-priming system

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying
- Rainwater utilisation



Series overview Wilo-Jet FWJ, MultiCargo FMC

Series: Wilo-Jet FWJ

> Product advantages

- Ideal for outdoor applications (hobby, garden)
- Completely preassembled system
- Electronic pump control
- All parts that come in contact with the fluid are corrosion-free

> Additional information:

Page

- Equipment/function 134
- Technical data 136
- Pump curves, motor data, dimensions, weights 138

Series: Wilo-MultiCargo FMC

> Product advantages

- Low-noise due to multistage design
- Ideal as water supply system in buildings
- Outstanding self-priming capability, due to innovative priming wing
- Electronic pump control
- All parts that come in contact with the fluid are corrosion-free

> Additional information:

Page

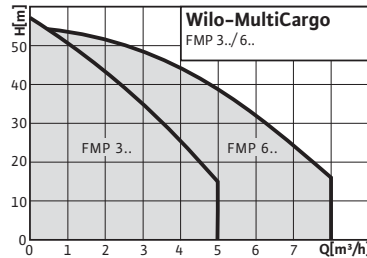
- Equipment/function 134
- Technical data 136
- Pump curves, motor data 139
- Dimensions, weights 140

Pumps and systems for domestic water supply

Systems

Series overview Wilo-MultiPress FMP, Jet HWJ

Series: Wilo-MultiPress FMP



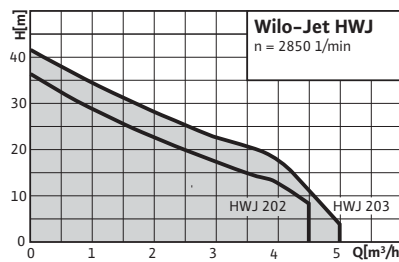
> Non-self-priming system

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying
- Rainwater utilisation



Series: Wilo-Jet HWJ



> Self-priming jet pump system

> Application:

Stationary water pumping for suction operation (e.g. wells) or water supply operation (e.g. out of tanks)



Series overview Wilo-MultiPress FMP, Jet HWJ

Series: Wilo-MultiPress FMP

> Product advantages

- Low-noise due to multistage design
- Ideal as water supply system in buildings
- Electronic pump control
- All parts that come in contact with the fluid are corrosion-free

> Additional information:

Page

- Equipment/function 134
- Technical data 136
- Pump curves 141
- Dimensions, weights 142

Series: Wilo-Jet HWJ

> Product advantages

- Ideal for outdoor applications (hobby, garden)
- Rust-free stainless steel prevents corrosion, even with prolonged service periods
- Reduction of switch-on frequency and avoidance of pressure surges due to diaphragm pressure vessel with 20/50 l volume
- Electrical and hydraulic connections already in place, quick and safe to install

> Additional information:

Page

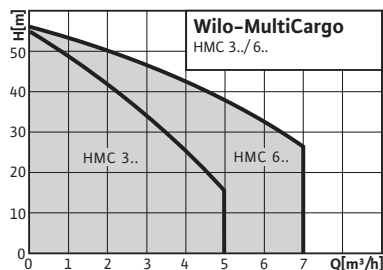
- Equipment/function 134
- Technical data 136
- Pump curves, motor data, dimensions, weights 143

Pumps and systems for domestic water supply

Systems

Series overview MultiCargo HMC, MultiPress HMP, SilentMaster

Series: Wilo-MultiCargo HMC



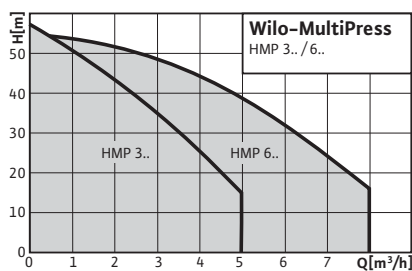
> Self-priming system

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying
- Pumping water from wells and out of low-lying tanks



Series: Wilo-MultiPress HMP



> Non-self-priming system

> Application:

- Water supply
- Sprinkling
- Irrigation and spraying



Series: Wilo-SilentMaster



> Automatic, self-priming pump system (type 303, non self-priming)

> Application:

- Self-sufficient water supply
- Rainwater utilisation
- Sprinkling
- Spraying
- Irrigation



Series overview MultiCargo HMC, MultiPress HMP, SilentMaster

Series: Wilo-MultiCargo HMC

> Product advantages

- Low-noise due to multistage design
- Ideal as water supply system in buildings
- Outstanding self-priming capability, due to innovative priming wing
- All parts that come in contact with the fluid are corrosion-free
- Reduction of switch-on frequency and avoidance of pressure surges due to 50 l diaphragm pressure vessel

> Additional information:

Page

- Equipment/function 135
- Technical data 137
- Pump curves, motor data 144
- Dimensions, weights. 145

Series: Wilo-MultiPress HMP

> Product advantages

- Low-noise due to multistage design
- Ideal as water supply system in buildings
- All parts that come in contact with the fluid are corrosion-free
- Reduction of switch-on frequency and avoidance of pressure surges due to large-size 50 l diaphragm pressure vessel

> Additional information:

Page

- Equipment/function 135
- Technical data 137
- Pump curves, motor data 146
- Dimensions, weights. 147

Series: Wilo-SilentMaster

> Product advantages

- Quiet operation 43 dB(A)
- Compact water supply system
- Dry-running protection system
- New innovative design
- Integrated non-return valve
- Simple installation (ready-to-plug)

> Additional information:

Page

- Equipment/function 135
- Technical data 137
- Pump curves, motor data 148
- Dimensions, weights. 149

Pumps and systems for domestic water supply

Systems

Equipment/function				
	Wilo- Jet FWJ	Wilo- MultiCargo FMC	Wilo- MultiPress FMP	Wilo- Jet HWJ
Hydraulics				
Self-priming	•	•	–	•
Non-self-priming	–	–	•	–
Stationary water-supply unit	•	•	•	•
Single-stage rotodynamic system	•	–	–	–
Multistage centrifugal pump	–	•	•	–
Submersible pump	–	–	–	–
Directly flanged motor	•	•	•	•
Motor				
Mains connection 1~230 V	•	•	•	•
Connection cable (1~230 V version)	•	•	•	•
Capacitor (1~230 V version)	•	•	•	•
Thermal motor protection switch (1~230 V version)	•	•	•	•
Equipment/scope of delivery				
Wilo-FluidControl (for automatic operation)	•	•	•	–
Pressure switch	–	–	–	•
Pressure and flow monitor	–	–	–	–
Pressure gauge	–	–	–	•
Switchgear	–	–	–	–
Safety valve made of polypropylene	–	–	–	–
Fine suction filter	–	–	–	–
Suction hose	–	–	–	–
Diaphragm pressure vessel (20/50 l)	–	–	–	•
Pressure hose with steel casing and screwed connection	–	–	–	•
Installation instructions	•	•	•	•

• = available, – = not available

Equipment /function			
	Wilo- MultiCargo HMC	Wilo- MultiPress HMP	Wilo- SilentMaster
Hydraulics			
Self-priming	•	–	•
Non-self-priming	–	•	only 303
Stationary water-supply unit	•	•	–
Multistage centrifugal pump	•	•	•
Submersible pump	–	–	–
Directly flanged motor	•	•	•
Motor			
Mains connection 1~230 V	•	•	•
Mains connection 3~400 V	•	•	–
Connection cable (1~230 V version)	•	•	•
Capacitor (1~230 V version)	•	•	•
Thermal motor protection switch (1~230 V version)	•	•	•
Equipment/scope of delivery			
Wilo-FluidControl (for automatic operation)	–	–	–
Pressure switch	•	•	–
Pressure and flow monitor	–	–	•
Pressure gauge	•	•	–
Switchgear	–	–	–
Safety valve made of polypropylene	–	–	–
Fine suction filter	–	–	–
Suction hose	–	–	–
Diaphragm pressure vessel (20/50 l)	•	•	–
Installation instructions	•	•	•

• = available, – = not available

Pumps and systems for domestic water supply

Systems

Technical data

	Wilo- Jet FWJ	Wilo- MultiCargo FMC	Wilo- MultiPress FMP	Wilo- Jet HWJ
Approved fluids				
Pure water without settling sediment	•	•	•	•
Rainwater	•	•	•	–
Power				
Max. volume flow [m³/h]	5	7	7	5
Max. delivery head [m]	42	57	57	42
Max. suction head [m]	8	8	–	8
Max. inlet pressure [bar]	1	1.5	1.5	1
Start-up pressure [bar]	1.5	1.5	1.5	1.5
Min. switch-off [bar]	2.2	2.2	2.2	adjustable
Fluid temperature [°C]	+5 to +35	+5 to +35	+5 to +35	+5 to +35
Ambient temperature [°C]	40	40	40	40
Max. operating pressure [bar]	6	8	10	6
Mains connection 1~ [V]	230	230	230	230
Mains connection 3~ [V]	400	–	–	400
Mains frequency [Hz]	50	50	50	50
Nominal speed [1/min]	2850	2900	2900	2850
Pressure switch adjustment range [bar]	–	–	–	1–5
Motor				
Protection class	IP 44	IP 54	IP 54	IP 44
Insulation class	B	F	F	B
Pipe connections				
Pressure side [Rp]	1	1	1	1
Suction side [Rp]	1	1	1	1
Materials				
Pump housing	1.4301	1.4301	1.4301	1.4301
Impeller	1.4301	Noryl	Noryl	1.4301
Shaft	1.4005	1.4028 1.4404 (1.1 kW)	1.4028 1.4404 (1.1 kW)	1.4005
Mechanical seal	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Ceramic/carbon
Stage chambers	Noryl	Noryl	Noryl	Noryl
Pressure monitor housing	Nylon PA6	Nylon PA6	Nylon PA6	–
Diffuser/injector	Noryl	–	–	Noryl
Seals	NBR	NBR	NBR	Rubber

• = available, – = not available

Technical data					
	Wilo- MultiCargo HMC	Wilo- MultiPress HMP	Wilo- SilentMaster		
			303	304	305
Approved fluids					
Pure water without settling sediment	•	•	•	•	•
Process water, cold water, cooling water	–	–	•	•	•
Rainwater	–	–	•	•	•
Power					
Max. volume flow [m³/h]	8	8	5	5	5
Max. delivery head [m]	57	57	33	43	54
Max. suction head [m]	8	–	–	8	8
Max. inlet pressure [bar]	4	6	6	4	4
Fluid temperature [°C]	+5 to +35	+5 to +35	+5 to +35	+5 to +35	+5 to +35
Ambient temperature [°C]	40	40	0 to +40	0 to +40	0 to +40
Max. operating pressure [bar]	8	10	10	8	8
Mains connection 1~ [V]	230	230	230	230	230
Mains connection 3~ [V]	230 (VD) 400 (Y)	230 (VD) 400 (Y)	–	–	–
Mains frequency [Hz]	50	50	50	50	50
Nominal speed [1/min]	2900	2900	2900	2900	2900
Pressure switch adjustment range [bar]	1–5	1–5	–	–	–
Motor					
Protection class	IP 54	IP 54	IP 54	IP 54	IP 54
Insulation class	F	F	F	F	F
Pipe connections					
Pressure side [Rp]	1	1	G1	G1	G1
Suction side [Rp]	1	1	G1	G1	G1
Materials					
Pump housing	1.4301	1.4301	1.4301	1.4301	1.4301
Impeller	Noryl	Noryl	Noryl	Noryl	Noryl
Shaft	1.4028 1.4404 (1.1 kW)	1.4028 1.4404 (1.1 kW)	1.4028	1.4028	1.4028
Mechanical seal	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic
Stage chambers	Noryl	Noryl	Noryl	Noryl	Noryl
Diffuser/injector	–	–	Noryl	Noryl	Noryl
Seals	NBR	NBR	NBR	NBR	NBR

• = available, – = not available

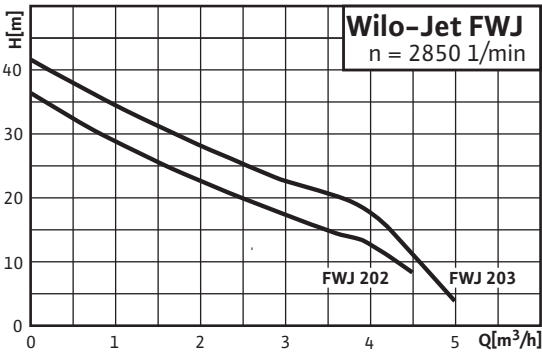
Pumps and systems for domestic water supply

Systems

Pump curves, motor data, dimensions, weights Wilo-Jet FWJ

Wilo-Jet FWJ

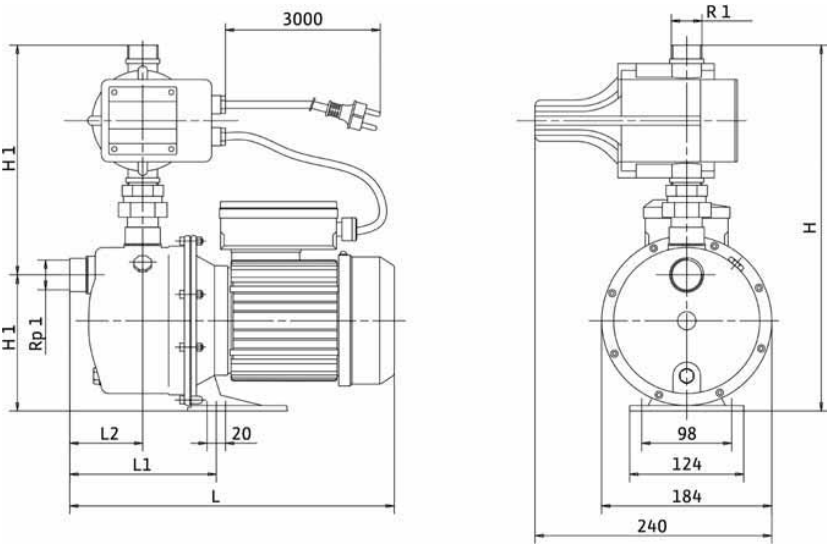
n = 2850 1/min



Motor data (2-pole/50 Hz)

Wilo-Jet FWJ ...	Type of current	Power consumption P ₁	Nominal current I _N	Capacitor
		[W]	[A]	[μF]
FWJ 202 (1~)	1~230 V	870	4.1	20.0
FWJ 203 (1~)	1~230 V	1000	4.58	20.0

Dimension drawing



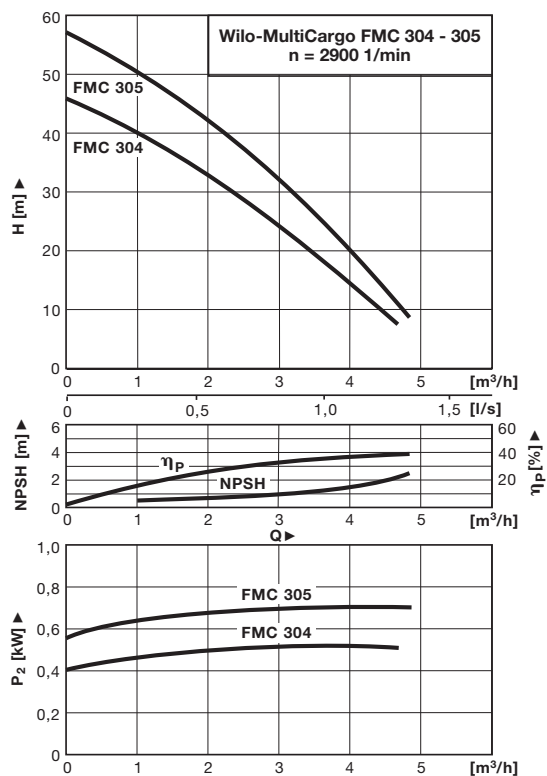
Dimensions, weights

Wilo-Jet FWJ ...	Dimensions						Weight
	L ₂	L ₁	L	H ₂	H ₁	H	
	[mm]						[kg]
FWJ 202 (1~)	72	155	354	242	148	390	10
FWJ 203 (1~)	72	155	354	242	148	390	11

Pump curves, motor data Wilo-MultiCargo FMC

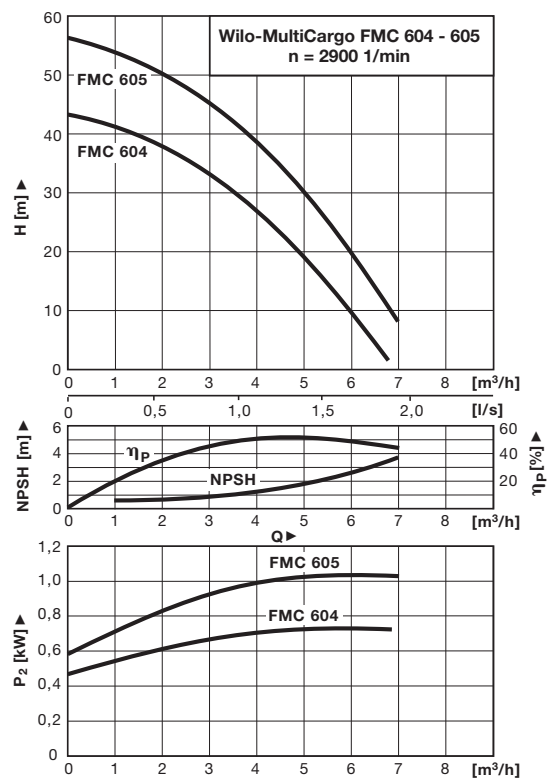
Wilo-MultiCargo FMC 304 - 305

n = 2900 1/min



Wilo-MultiCargo FMC 604 - 605

n = 2900 1/min



Motor data (2-pole/50 Hz)

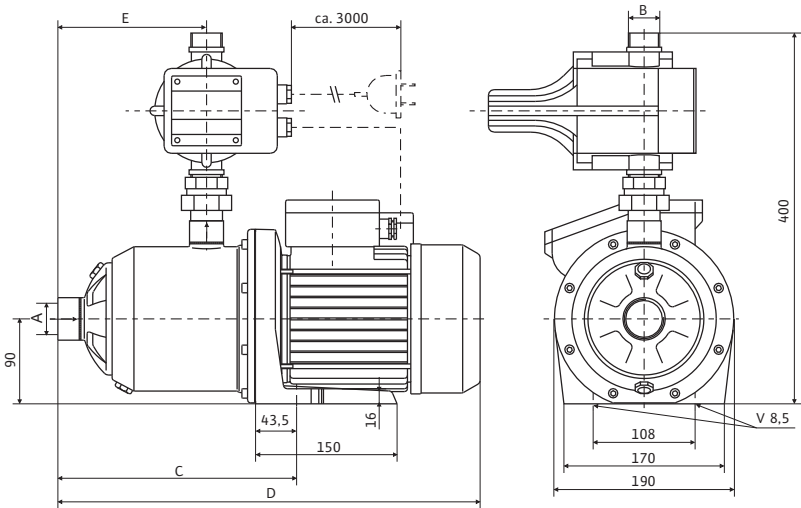
Wilo-MultiCargo ...	Nominal power P_2	Nominal current I_N with
		1~230 V
	[kW]	[A]
FMC 304	0.55	4.0
FMC 305	0.75	5.3
FMC 604	0.75	5.3
FMC 605	1.10	7.2

Pumps and systems for domestic water supply

Systems

Dimensions, weights Wilo-MultiCargo FMC

Dimension drawing

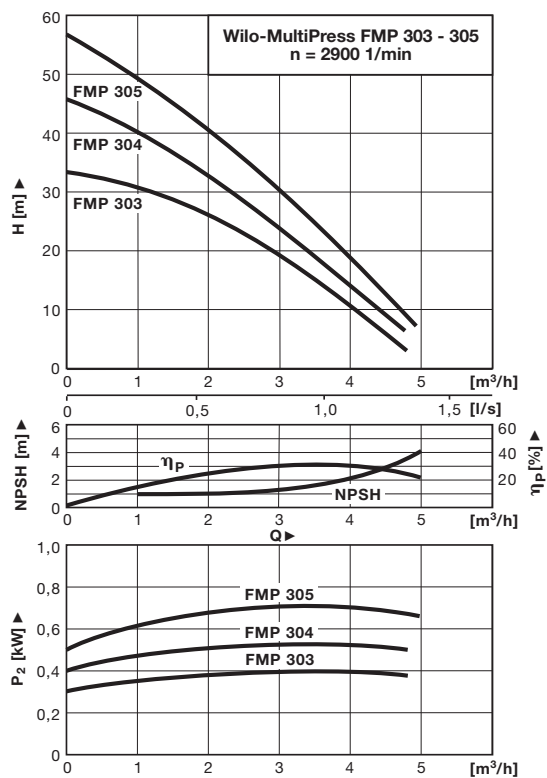


Dimensions, weights						
Wilo-MultiCargo ...	Dimensions					Weight
	A	B	C	D	E	
	[mm]					[kg]
FMC 304	Rp 1	R 1	253	418	157.5	12.0
FMC 305	Rp 1	R 1	277	447	181.5	13.5
FMC 604	Rp 1	R 1	253	423	157.5	13.5
FMC 605	Rp 1	R 1	277	472	181.5	15.8

Pump curves, motor data Wilo-MultiPress FMP

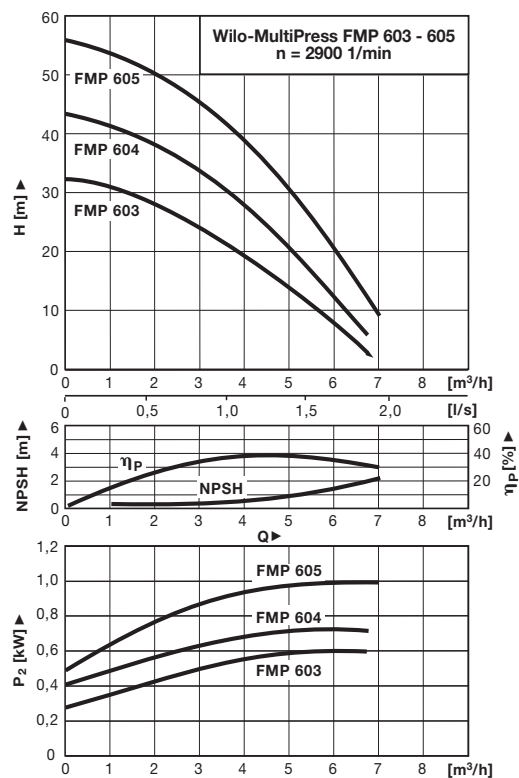
Wilo-MultiPress FMP 303 - 305

n = 2900 1/min



Wilo-MultiPress FMP 603 - 605

n = 2900 1/min



Motor data (2-pole/50 Hz)

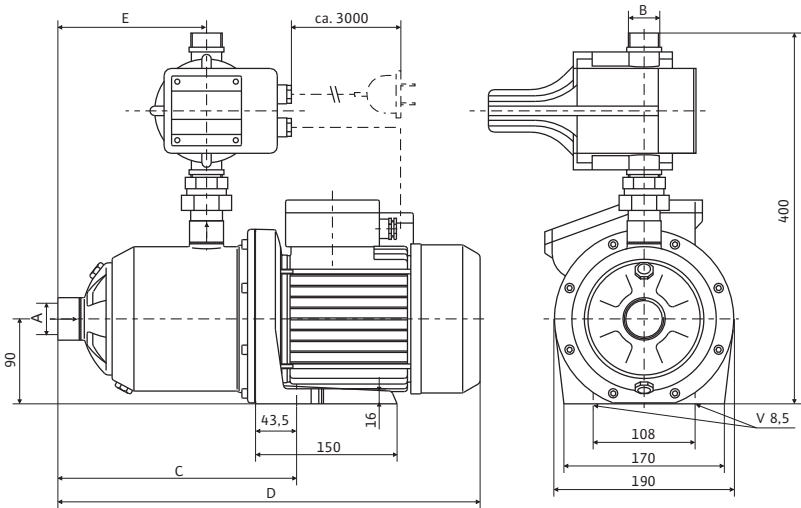
Wilo-MultiPress ...	Nominal power P_2	Nominal current I_N with
		1~230 V
	[kW]	[A]
FMP 303	0.55	4.0
FMP 304	0.55	4.0
FMP 305	0.75	5.3
FMP 603	0.55	4.0
FMP 604	0.75	5.3
FMP 605	1.10	7.2

Pumps and systems for domestic water supply

Systems

Dimensions, weights Wilo-MultiPress FMP

Dimension drawing

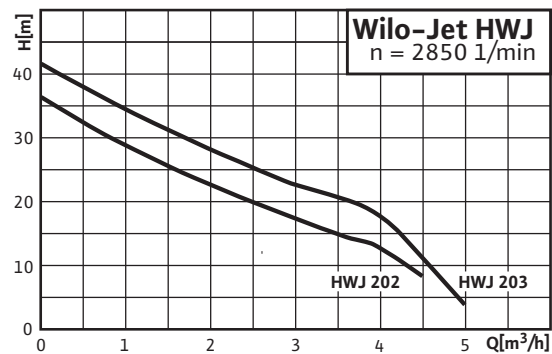


Dimensions, weights						
Wilo-MultiPress ...	Dimensions					Weight
	A	B	C	D	E	
	[mm]					[kg]
FMP 303	Rp 1	R 1	205	375	109.5	10.6
FMP 304	Rp 1	R 1	253	423	157.5	10.9
FMP 305	Rp 1	R 1	253	423	157.5	12.4
FMP 603	Rp 1 1/4	R 1	205	375	109.5	11.2
FMP 604	Rp 1 1/4	R 1	253	423	157.5	12.4
FMP 605	Rp 1 1/4	R 1	253	448	157.5	14.5

Pump curves, motor data, dimensions, weights Wilo-Jet HWJ

Wilo-Jet HWJ

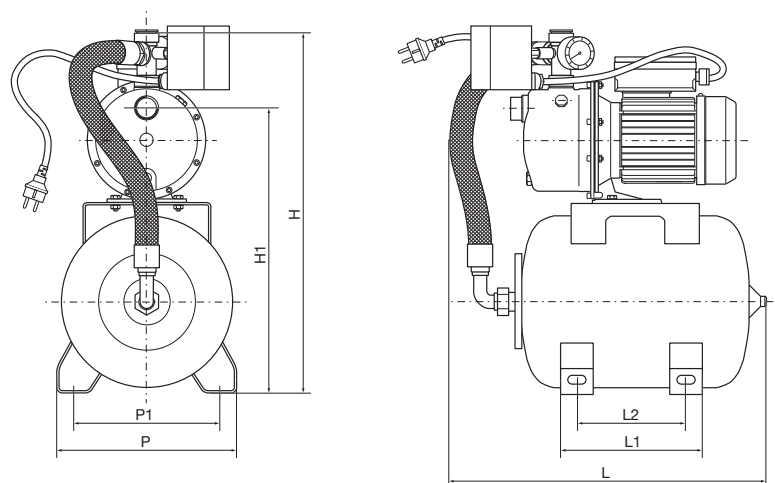
$n = 2850 \text{ 1/min}$



Motor data (2-pole/50 Hz)

Wilo-Jet HWJ ...	Type of current	Power consumption P 1	3~230 V	3~400 V
		[W]	[A]	[μF]
HWJ 202 (1~) 20 L	1~230 V	870	4.1	20
HWJ 203 (1~) 20 L	1~230 V	1000	4.58	20
HWJ 202 (1~) 50 L	1~230 V	870	4.1	20
HWJ 203 (1~) 50 L	1~230 V	1000	4.58	20

Dimension drawing



Dimensions, weights

Wilo-Jet HWJ ...	Dimensions								Weight
	H	H ₁	H ₂	L	L ₁	L ₂	P	P ₁	
	[mm]								[kg]
HWJ 202 (1~) 20 L	580	570	448	500	220	170	280	230	26.9
HWJ 203 (1~) 20 L	580	570	448	500	220	170	280	230	27.9
HWJ 202 (1~) 50 L	660	650	530	700	350	300	360	280	29.3
HWJ 203 (1~) 50 L	660	650	530	700	350	300	360	280	34.3

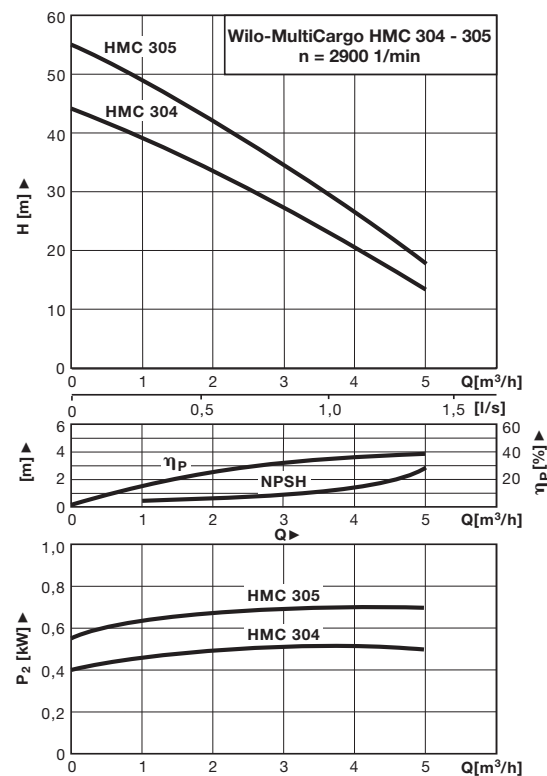
Pumps and systems for domestic water supply

Systems

Pump curves, motor data Wilo-MultiCargo HMC

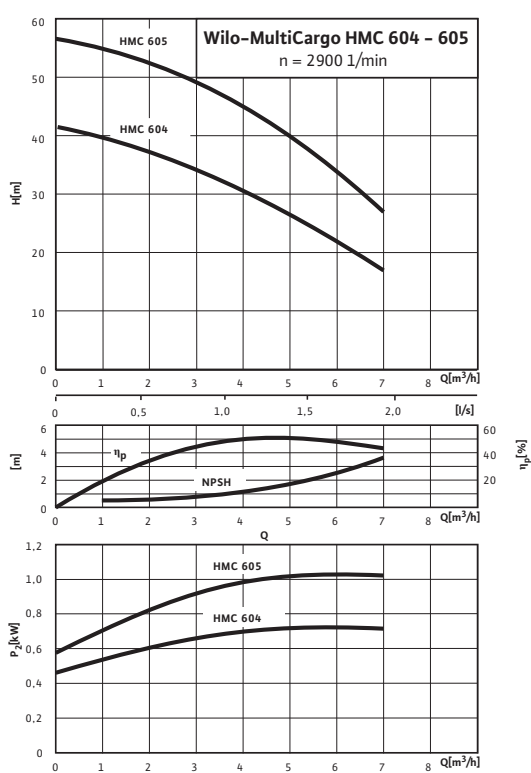
Wilo-MultiCargo HMC 304 - 305

$n = 2900 \text{ 1/min}$



Wilo-MultiCargo HMC 604 - 605

$n = 2900 \text{ 1/min}$

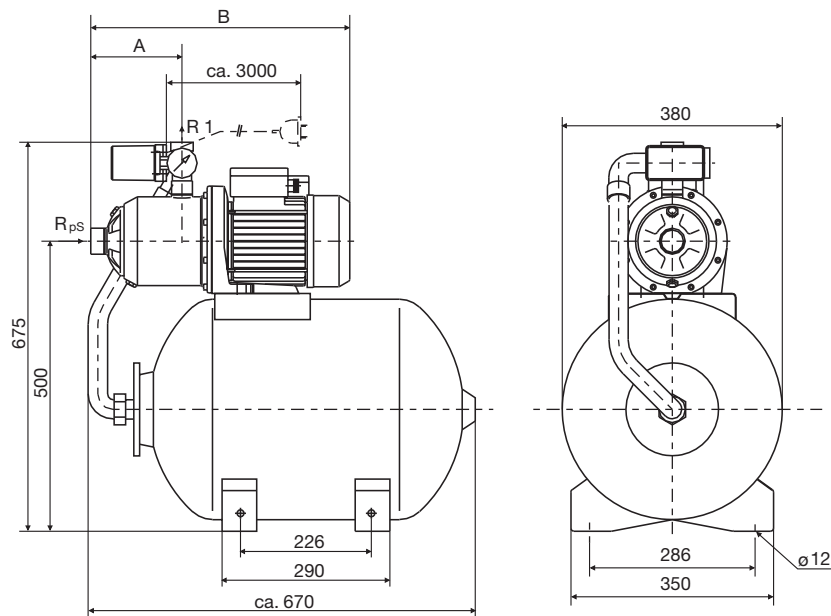


Motor data (2-pole/50 Hz)

Wilo-MultiCargo ...	Nominal power P_2	Nominal current I_N with		
		1~230 V	3~230 V	3~400 V
	[kW]	[A]		
HMC 304	0.55	4.0	3.3	1.9
HMC 305	0.75	5.3	3.6	2.1
HMC 604	0.75	5.3	3.6	2.1
HMC 605	1.10	7.2	5.0	2.9

Dimensions, weights Wilo-MultiCargo HMC

Dimension drawing



Mains plug, single-phase version: Represented by broken line

Dimensions, weights

Wilo-MultiCargo ...	Dimensions				Weight	
	A	B (1~230 V)	B (3~400 V)	R _{ps}	EM	DM
	[mm]				[kg]	
HMC 304 (1~/3~)	157.5	418	423	1	28.0	27.1
HMC 305 (1~/3~)	181.5	447	447	1	28.4	27.5
HMC 604 (1~/3~)	157.5	423	423	1	29.5	28.6
HMC 605 (1~/3~)	181.5	472	447	1	32.6	30.1

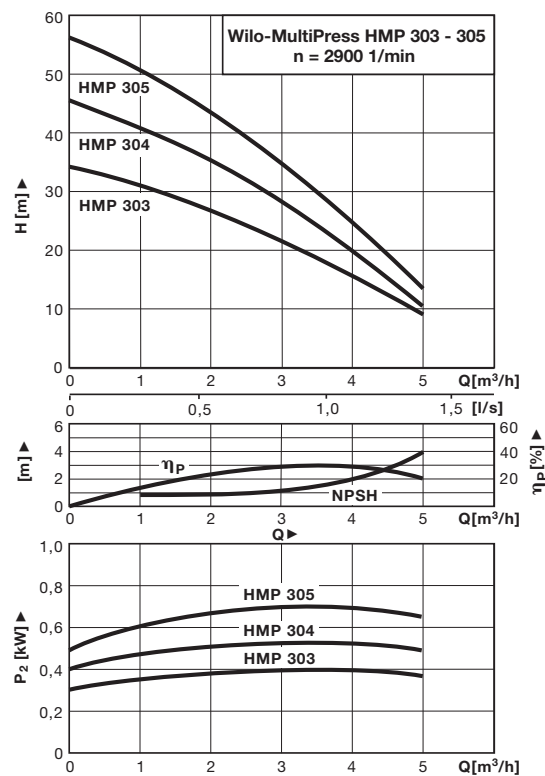
Pumps and systems for domestic water supply

Systems

Pump curves, motor data Wilo-MultiPress HMP

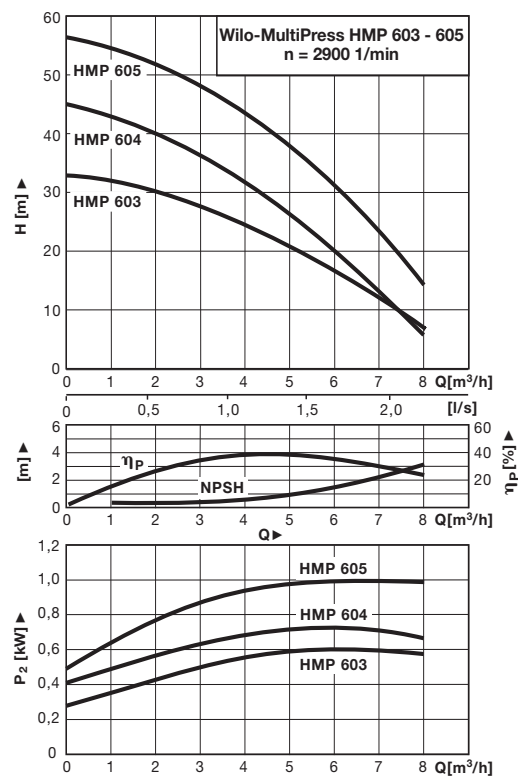
Wilo-MultiPress HMP 303 – 305

$n = 2900 \text{ 1/min}$



Wilo-MultiPress HMP 603 – 605

$n = 2900 \text{ 1/min}$

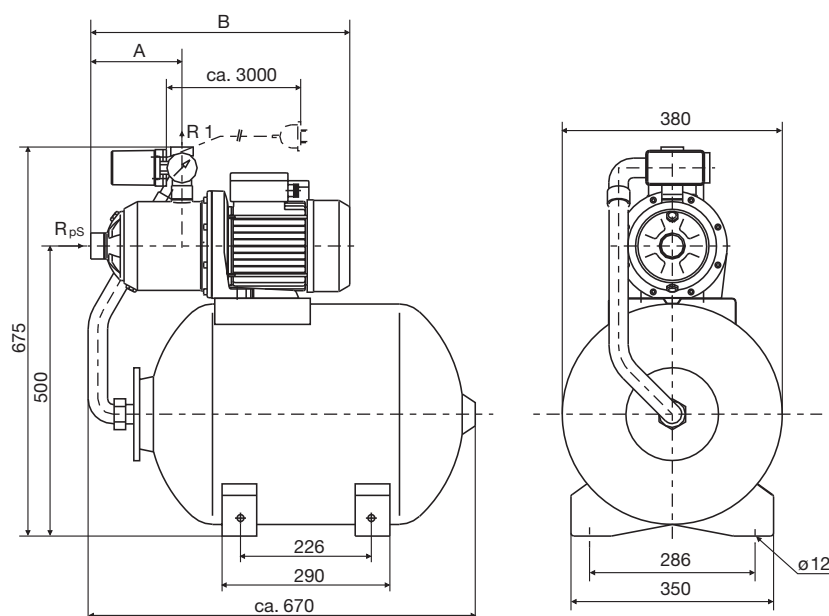


Motor data (2-pole/50 Hz)

Wilo MultiPress ...	Nominal power P_2	Nominal current I_N with		
		1~230 V	3~230 V	3~400 V
	[kW]	[A]		
HMP 303	0.55	4.0	–	–
HMP 304	0.55	4.0	3.3	1.9
HMP 305	0.75	5.3	3.6	2.1
HMP 603	0.55	4.0	3.3	1.9
HMP 604	0.75	5.3	3.6	2.1
HMP 605	1.10	7.2	4.9	2.8

Dimensions, weights Wilo-MultiPress HMP

Dimension drawings



Mains plug, single-phase version: Represented by broken line

Dimensions, weights

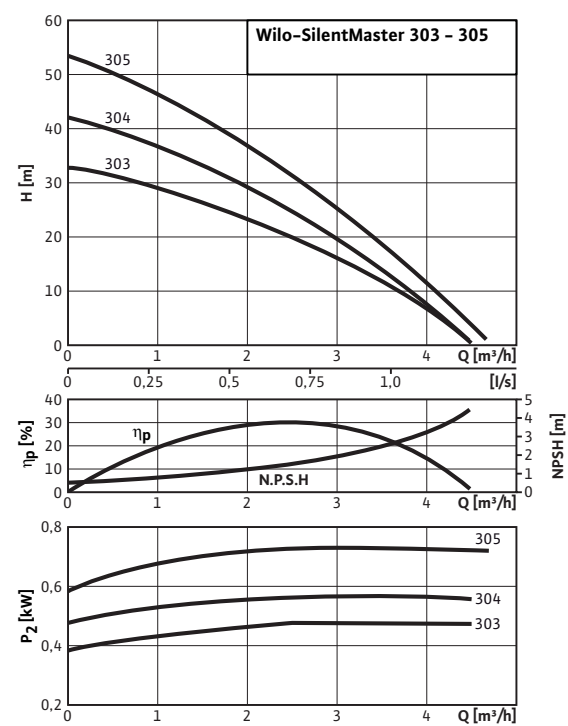
Wilo MultiPress ...	Dimensions				Weight	
	A	B (1~230 V)	B (3~400 V)	R _{ps}	EM	DM
	[mm]				[kg]	
HMP 303 (1~)	109.5	375	–	1	26.6	–
HMP 304 (1~/3~)	157.5	423	423	1	26.9	26.0
HMP 305 (1~/3~)	157.5	423	423	1	28.4	27.5
HMP 603 (1~/3~)	109.5	375	375	1 1/4	27.2	26.5
HMP 604 (1~/3~)	157.5	423	423	1 1/4	28.4	27.5
HMP 605 (1~/3~)	157.5	448	423	1 1/4	31.3	28.8

Pumps and systems for domestic water supply

Systems

Pump curves, motor data Wilo-SilentMaster

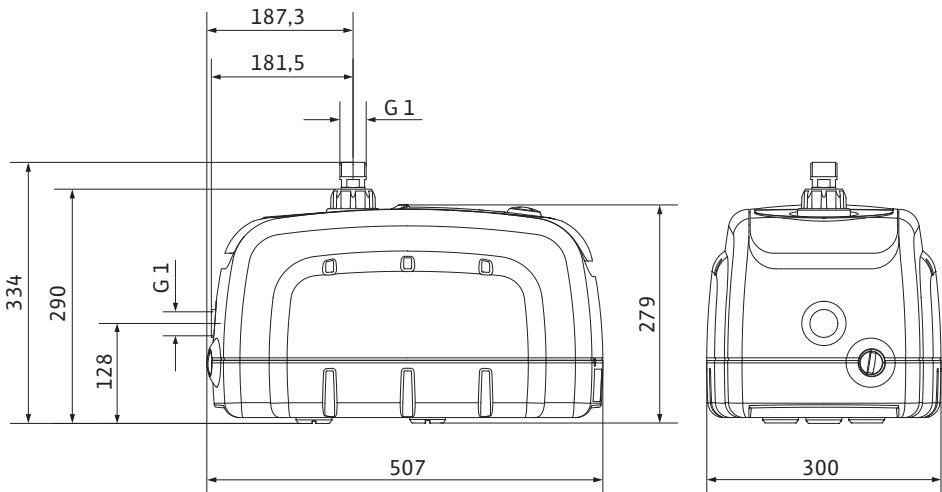
Wilo-SilentMaster 303 to 305



Motor data (2-pole)		
Wilo-SilentMaster	Nominal power P_2	Nominal current I_N 1~230 V, 50 Hz
	[kW]	[A]
SilentMaster 303	0.55	4.0
SilentMaster 304	0.55	4.2
SilentMaster 305	0.75	5.4

Dimensions, weights Wilo-SilentMaster

Dimension drawing



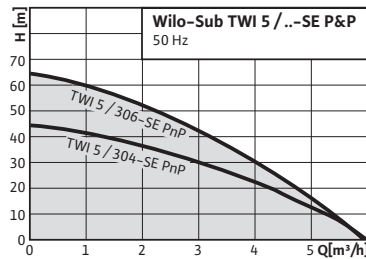
Weights	
Wilo-SilentMaster ...	Weight
	[kg]
SilentMaster 303	11.4
SilentMaster 304	11.2
SilentMaster 305	13.7

Pumps and systems for domestic water supply

Systems

Series overview Wilo-Sub TWI 5-SE Plug & Pump

Series: Wilo-Sub TWI 5-SE Plug & Pump



> Water supply package with submersible pump

> Application:

- Pumping from wells, rainwater storage tanks and vessels
- Irrigation, sprinkling or pumping out
- Water supply
- Rainwater utilisation



Series overview Wilo-Sub TWI 5-SE Plug & Pump

Series: Wilo-Sub TWI 5-SE Plug & Pump

> Product advantages

- Ready-to-plug as 1~ 230 V version
- Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304)
- Self-cooling motor
- Installation possible outside water
- Thermal motor protection with 1~230 V version

> Additional information:

Page

- Equipment/function 152
- Technical data 153
- Pump curves, dimensions 154
- System example. 155

Pumps and systems for domestic water supply

Systems

Equipment/function	
	Wilo- Sub TWI 5-SE Plug & Pump
Hydraulics	
Self-priming	—
Non-self-priming	•
Stationary water-supply unit	•
Multistage centrifugal pump	—
Submersible pump	•
Directly flanged motor	—
Motor	
Mains connection 1~230 V	•
Mains connection 3~400 V	—
Connection cable, 20 m	•
Capacitor (version 1~)	•
Thermal motor protection switch (version 1~)	•
Equipment/scope of delivery	
Wilo-FluidControl (for automatic operation)	•
Pressure switch	•
Pressure and flow monitor	—
Pressure gauge	•
Switchgear	•
Safety valve made of polypropylene	•
Fine suction filter	•
Suction hose	•
Diaphragm pressure vessel (20/50 l)	—
Installation instructions	•

Technical data

	Wilo- Sub TWI 5-SE Plug & Pump
Approved fluids	
Pure water without settling sediment	•
Process water, cold water, cooling water	•
Rainwater	•
Power	
Max. volume flow [m³/h]	6.0
Max. delivery head [m]	65
Max. suction head [m]	–
Max. inlet pressure [bar]	–
Fluid temperature [°C]	+3 to +40
Ambient temperature [°C]	–
Max. operating pressure [bar]	10
Mains connection 1~ [V]	230
Mains connection 3~ [V]	400
Mains frequency [Hz]	50
Nominal speed [1/min]	2900
Pressure switch adjustment range [bar]	–
Motor	
Protection class	IP 68
Insulation class	F
Pipe connections	
Pressure side [Rp]	Rp 1 1/4
Suction side [Rp]	Rp 1 1/4
Materials	
Pump housing	1.4301
Impeller	1.4301
Shaft	1.4301
Mechanical seals	SIC/SIC Carbon/ceramic
Stage chambers	1.4301
Diffuser/injector	1.4301
Seals	NBR

• = available, – = not available

Pumps and systems for domestic water supply

Systems

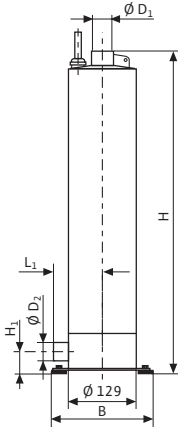
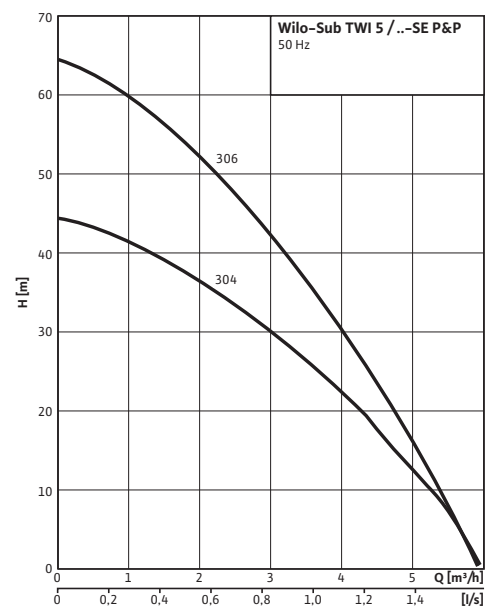
Pump curves, dimensions, motor data Wilo-Sub TWI 5-SE Plug & Pump

Wilo-Sub TWI 5/..-SE Plug & Pump

n = 2850 1/min

Dimension drawing

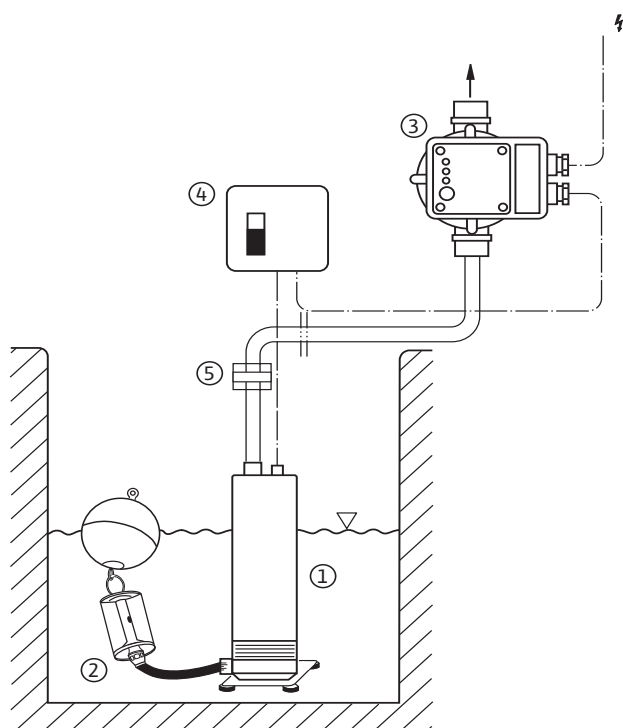
Wilo-Sub TWI 5-SE Plug & Pump



Dimensions									
Wilo-Sub ...	Dimensions							Power con- sumption	Nominal power
	H		H ₁	L ₁	D ₁	D ₂	B	P ₁	P ₂
	1~230 V	3~400 V							
	[mm]						[Ø mm]	[kW]	
TWI 5-SE-304 (1~)	539	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	0.85	0.55
TWI 5-SE-306 (1~)	587	—	55	93.5	Rp 1 1/4	Rp 1 1/4	174	1.20	0.75

System example Wilo-Sub TWI 5-SE Plug & Pump

Water-supply unit (single-phase version)



Key

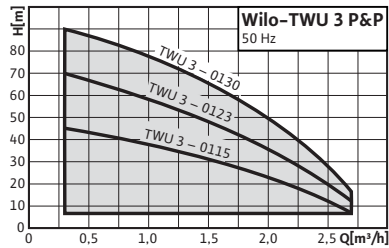
- 1 Submersible pump, Wilo-Sub TWI 5-SE (1~)
- 2 Floating suction filter Ø 1" with screwed connection R 1¹/₄
- 3 Electronically controlled flow and pressure monitor, Wilo-FluidControl, with non-return valve and protection against low water level max. rating $P_2 \leq 1.5 \text{ kW}$ (max. current 10 A) and Wilo-FluidControl wall bracket (accessory)
- 4 Switchbox with On/Off switch
(in the scope of delivery of Wilo-Sub TWI 5-SE (1~))
- 5 Wilo quick coupling (accessory)

Pumps and systems for domestic water supply

Systems

Series overview Wilo-Sub TWU 3 P&P, TWU 4 P&P

Series: Wilo-Sub TWU 3 Plug & Pump

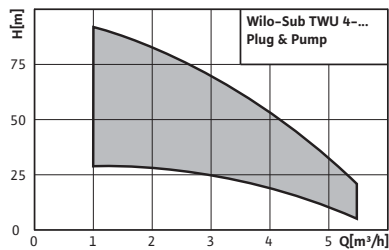


> Application

- Water-supply unit for
- Water supply from boreholes, wells and rainwater storage tanks
- Domestic water supply, sprinkling and irrigation
- Pumping water without long fibrous and abrasive constituents



Series: Wilo-Sub TWU 4 Plug & Pump



> Application

- Water-supply unit for self-sufficient water supply in domestic applications
- Washing machines
- Garden sprinkling
- Transferring by pumping and filling
- Taps for process water



Series overview Wilo-Sub TWU 3 P&P, TWU 4 P&P

Series: Wilo-Sub TWU 3 Plug & Pump

> Special features/product advantages

- Electrical system components already prewired
- Simple installation and operation
- Integrated non-return valve

> Additional information

- Series description 160

Page

Series: Wilo-Sub TWU 4 Plug & Pump

> Special features/product advantages

- Simple assembly, installation and operation
- Reliable motor, due to high starting torque and shake-free function
- Lightning and overload protection integrated in the motor
- Integrated non-return valve

> Additional information

- Series description 165

Page

Pumps and systems for domestic water supply

Systems

Technical data

Wilo-Sub...	Mains connection	Max. volume flow	Max. delivery head	Max. sand content	Fluid temperature	Min. flow rate at the motor	Insulation class	Protection class	Max. submersion depth	Max. switching frequency
	–	Q	H	P	–	v	–			
	–	[m ³ /h]	[m]	[g/m ³]	–	[m/s]	–		[m]	[1/h]
TWU 3-0115-Plug&Pump/FC	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0115-Plug&Pump/DS	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0123-Plug&Pump/FC	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0123-Plug&Pump/DS	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0130-Plug&Pump/FC	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 3-0130-Plug&Pump/DS	1~230 V, 50 Hz	2.6	125	40	3 °C ... 40 °C	0.1	F	IP 58	60	20
TWU 4-0405-B-Plug&Pump/FC	1~230 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0405-B-Plug&Pump/DS	1~230 V, 50 Hz	5	30	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B-Plug&Pump/FC	1~230 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0410-B-Plug&Pump/DS	1~230 V, 50 Hz	5	62	50	3 °C ... 30 °C	0.1	B	IP 68	200	20
TWU 4-0415-B-Plug&Pump/DS	1~230 V, 50 Hz	5	93	50	3 °C ... 30 °C	0.1	B	IP 68	200	20

Voltage tolerance +/- 10 % (data according to DIN EN 60034)

Material										
Wilo-Sub...	Impeller	Impeller (special version)	Pump housing	Pump housing (special version)	Pump shaft	Pump shaft (special version)	Motor housing	Motor housing (special version)	Motor shaft	Motor shaft (special version)
	-									
	-									
TWU 3-0115-Plug&Pump/FC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 3-0115-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 3-0123-Plug&Pump/FC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 3-0123-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 3-0130-Plug&Pump/FC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 3-0130-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0405-B-Plug&Pump/FC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0405-B-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0410-B-Plug&Pump/FC	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0410-B-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-
TWU 4-0415-B-Plug&Pump/DS	PC	-	1.4301	-	1.4104	-	1.4301	-	1.4305	-

Pumps and systems for domestic water supply

Systems

Series description Wilo-Sub TWU 3 Plug & Pump

Wilo Plug & Pump Sub-I package



Design

Water-supply unit with submersible pump, control and complete accessories.

Type key

e.g. **Wilo-Sub TWU 3-0115-P&P/FC**

TWU	Submersible pump
3	Diameter of the hydraulic unit in inches ["]
01	Nominal volume flow [m ³ /h]
15	Number of hydraulic stages
P&P	Plug & Pump pump system
FC	Version FC = Sub-I package with FluidControl DS = Sub-II package with pressure switching

Application

Water-supply unit for

- Water supply from boreholes, wells and rainwater storage tanks
- Domestic water supply, sprinkling and irrigation
- Pumping water without long fibrous and abrasive constituents

Special features/product advantages

- Electrical system components already prewired
- Simple installation and operation
- Integrated non-return valve

Technical data

- Mains connection: 1~230 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–40 °C
- Minimum flow at the motor: 0.08 m/s
- Max. sand content: 40 g/m³
- Max. number of starts: 20/h
- Max. submersion depth: 60 m

Wilo Plug & Pump Sub-II package



- Protection class: IP 58
- Pressure port: Rp 1

Equipment/function

- Multistage submersible pump with radial impellers
- Integrated non-return valve
- NEMA coupling
- Single-phase motor
- Integrated thermal motor protection

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Polycarbonate
- Hydraulic 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

Multistage submersible pump with radial impellers in sectional construction. Integrated non-return valve. All parts that come in contact with the fluid are made of corrosion-free materials.

Motor

Corrosion-free single-phase motor for direct starting, rewindable, oil-filled, self-lubricating bearing.

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Series description Wilo-Sub TWU 3 Plug & Pump

Options

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

Scope of delivery

Wilo-Plug & Pump Sub-I package for garden irrigation of private green areas in the domestic sector:

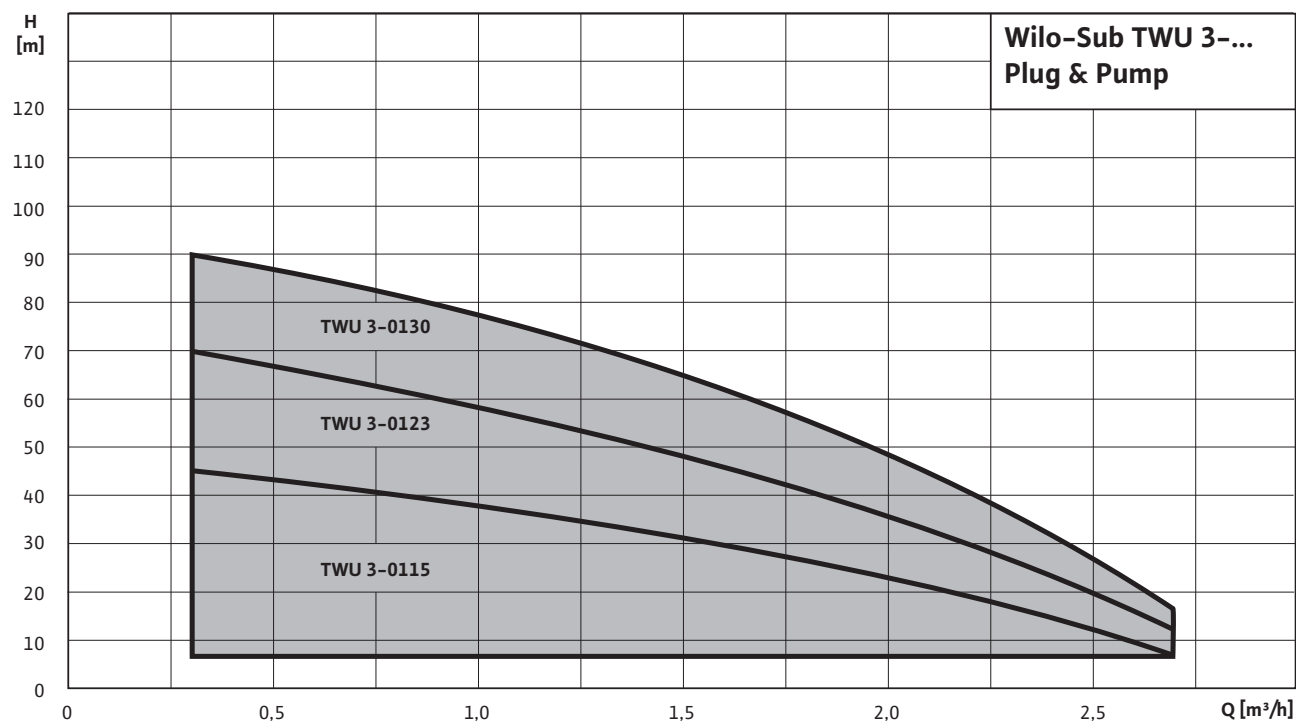
- Hydraulics + motor separately
- 30 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Switchbox with capacitor, thermal motor protection and On/Off switch
- Wilo-FluidControl (FC); automatic flow and pressure monitor with integrated dry-running protection system
- 30 m safety rope with rope clips
- Installation and operating instructions

Wilo-Plug & Pump Sub-II package for self-sufficient water supply of single and multi-family houses:

- Hydraulics + motor separately
- 30 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Switchbox with capacitor, thermal motor protection and On/Off switch
- Wilo pressure switching 0 – 18 bar incl. 18 l diaphragm expansion tank, pressure gauge, check valve and pressure switch
- 30 m safety rope with rope clips
- Installation and operating instructions

Accessories

- Cooling jacket pipes
- Cable kits for potable water and process water
- Switchgears
- Connection and installation material

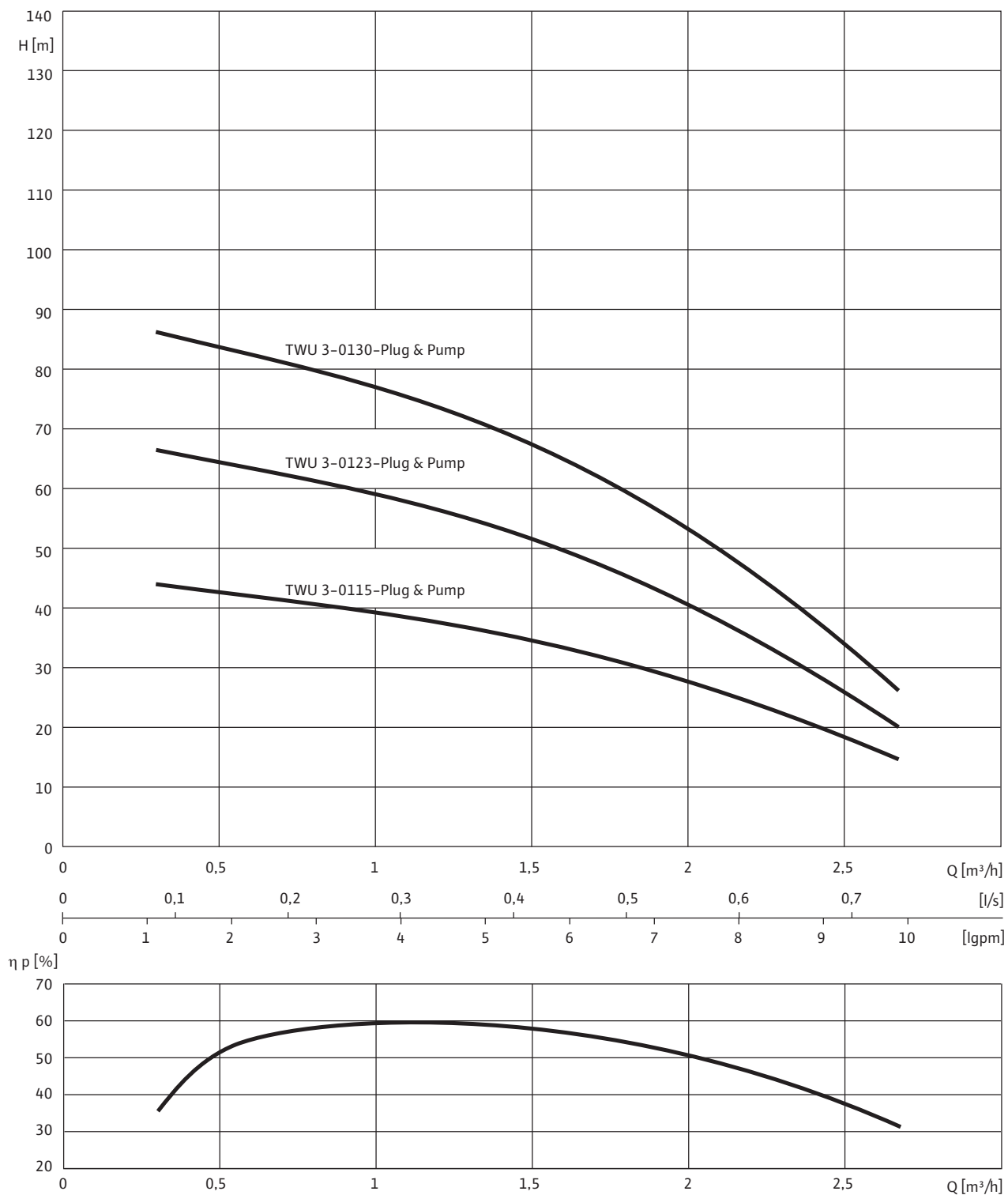


Pumps and systems for domestic water supply

Systems

Wilo-Sub TWU 3-01.. Plug & Pump

Pump curves Wilo-Sub TWU 3-01.. Plug & Pump



1~230 V or 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

Wilo-Sub TWU 3-01.. Plug & Pump

Motor data

Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	–	Ø	P ₂	I _N	L	–
	–	["]	[kW]	[A]	[m]	[mm ²]
TWU 3-0115-Plug&Pump/FC	1~230 V, 50 Hz	3	0.37	3.75	30	4x1.5
TWU 3-0115-Plug&Pump/DS	1~230 V, 50 Hz	3	0.37	3.75	30	4x1.5
TWU 3-0123-Plug&Pump/FC	1~230 V, 50 Hz	3	0.55	4.5	30	4x1.5
TWU 3-0123-Plug&Pump/DS	1~230 V, 50 Hz	3	0.55	4.5	30	4x1.5
TWU 3-0130-Plug&Pump/FC	1~230 V, 50 Hz	3	0.75	5.85	30	4x1.5
TWU 3-0130-Plug&Pump/DS	1~230 V, 50 Hz	3	0.75	5.85	30	4x1.5

Ordering information

Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	–			for vertical installation (B)	for horizontal installation (D)
				–	
TWU 3-0115-Plug&Pump/FC	1~230 V, 50 Hz	L	4091647	4092485	4092485 + 4092486
TWU 3-0115-Plug&Pump/DS	1~230 V, 50 Hz	L	4091654	4092485	4092485 + 4092486
TWU 3-0123-Plug&Pump/FC	1~230 V, 50 Hz	L	4091649	4092485	4092485 + 4092486
TWU 3-0123-Plug&Pump/DS	1~230 V, 50 Hz	L	4091655	4092485	4092485 + 4092486
TWU 3-0130-Plug&Pump/FC	1~230 V, 50 Hz	L	4091650	4092485	4092485 + 4092486
TWU 3-0130-Plug&Pump/DS	1~230 V, 50 Hz	L	4091656	4092485	4092485 + 4092486

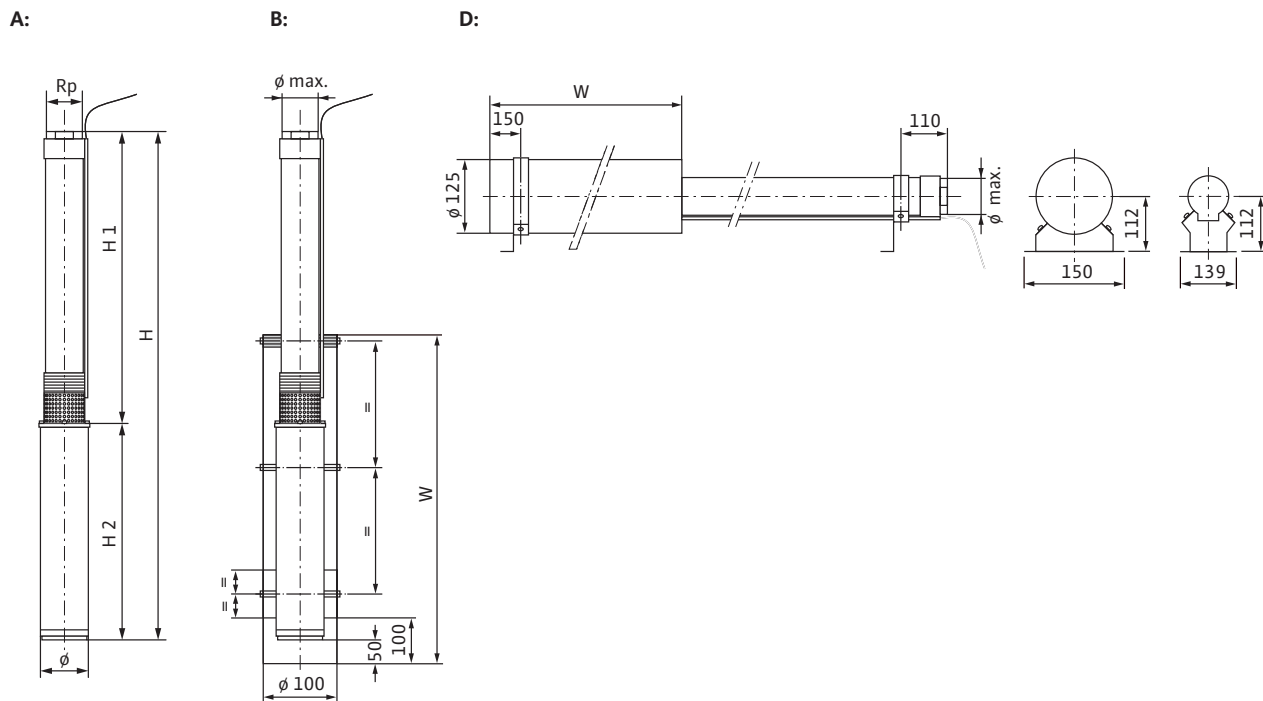
LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Pumps and systems for domestic water supply

Systems

Wilo-Sub TWU 3-01.. Plug & Pump

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights

Wilo-Sub...	Pressure port	Dimensions					Installation	Weight
	—	H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—	[mm]					—	[kg]
TWU 3-0115-Plug&Pump/FC	Rp 1	957	580	377	500	74	A, B, D	9.3
TWU 3-0115-Plug&Pump/DS	Rp 1	957	580	377	500	74	A, B, D	9.3
TWU 3-0123-Plug&Pump/FC	Rp 1	1177	780	397	500	74	A, B, D	10.8
TWU 3-0123-Plug&Pump/DS	Rp 1	1177	780	397	500	74	A, B, D	10.8
TWU 3-0130-Plug&Pump/FC	Rp 1	1416	1000	416	500	74	A, B, D	12.4
TWU 3-0130-Plug&Pump/DS	Rp 1	1416	1000	416	500	74	A, B, D	12.4

³⁾ For power cable to I_N, max. Ø for threaded connection

Series description Wilo-Sub TWU 4 Plug & Pump

Wilo Plug & Pump Sub-I package



Wilo Plug & Pump Sub-II package



Design

Water-supply unit with submersible pump, control and complete accessories.

Type key

e.g. **Wilo-Sub TWU 4-0804-B-P&P/FC**

TWU	Submersible pump
4	Diameter of the hydraulic unit in inches ["]
08	Nominal volume flow [m ³ /h]
04	Number of hydraulic stages
B	Series generation
P&P	Plug & Pump pump system
FC	Version FC = Sub-I package with FluidControl DS = Sub-II package with pressure switching

Application

Water-supply unit for self-sufficient water supply in domestic applications

- Washing machines
- Garden sprinkling
- Transferring by pumping and filling
- Taps for process water

Special features/product advantages

- Simple assembly, installation and operation
- Reliable motor, due to high starting torque and shake-free function
- Lightning and overload protection integrated in the motor
- Integrated non-return valve

Technical data

- Mains connection: 1~230 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–30 °C

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

Equipment/function

- Multistage submersible pump with radial impellers
- Integrated non-return valve
- NEMA coupling
- Single-phase motor
- Integrated thermal motor protection
- Dry-running protection system (only with Wilo-P&P-Paket Sub-I)

Materials

- Hydraulic housing: Stainless steel 1.4301
- Impellers: Polycarbonate
- Hydraulic 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

Multistage submersible pump with radial impellers in sectional design. Integrated non-return valve. All parts that come in contact with the fluid are made of corrosion-free materials.

Motor

Corrosion-free single-phase motor for direct starting without soft starter. Sealed and hermetically cast stator with enamel-insulated winding, resin-impregnated, self-lubricating bearing, with water-glycol filling. Lightning and overload protection integrated.

Pumps and systems for domestic water supply

Systems

Series description Wilo-Sub TWU 4 Plug & Pump

Cooling

The motor is cooled by the pumped 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. Horizontal installation must be performed in conjunction with a cooling jacket.

Scope of delivery

Wilo-Plug & Pump Sub-I package for garden irrigation of private green areas in the domestic sector:

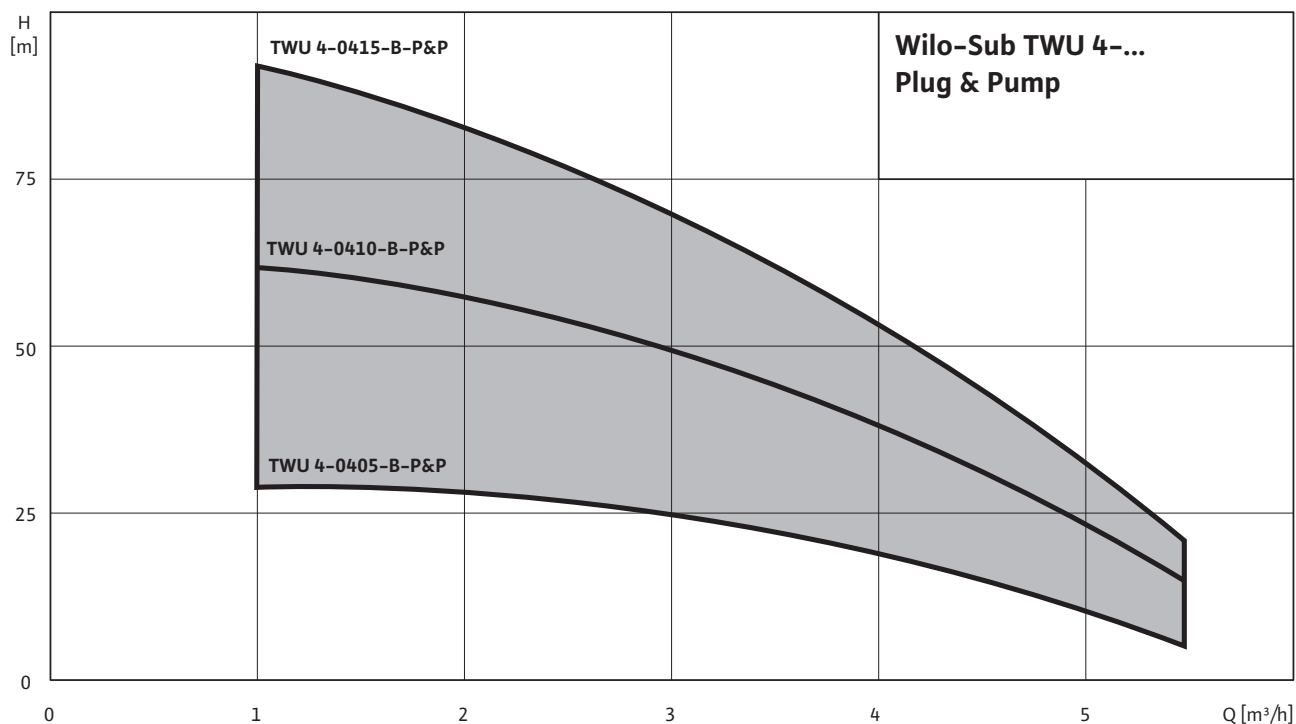
- Hydraulics + motor separately
- 30 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Switchbox with capacitor, thermal motor protection and On/Off switch
- Wilo-FluidControl (FC); automatic flow and pressure monitor with integrated dry-running protection system
- 30 m safety rope with rope clips
- Assembly parts: 2x clamping ring screwed connections, reducer R 1¹/₄ for R 1, 8x cable ties
- Installation and operating instructions

Wilo-Plug & Pump Sub-II package for self-sufficient water supply of single and multi-family houses:

- Hydraulics + motor separately
- 30 m connection cable in accordance with VDE/KTW with 4x1.5 mm² cross-section
- Switchbox with capacitor, thermal motor protection and On/Off switch
- Wilo pressure switching 0 – 18 bar incl. 18 l diaphragm expansion tank, pressure gauge, check valve and pressure switch
- 30 m safety rope with rope clips
- Assembly parts: T-piece, reducer R 1¹/₄ for R 1, 8x cable ties
- Installation and operating instructions

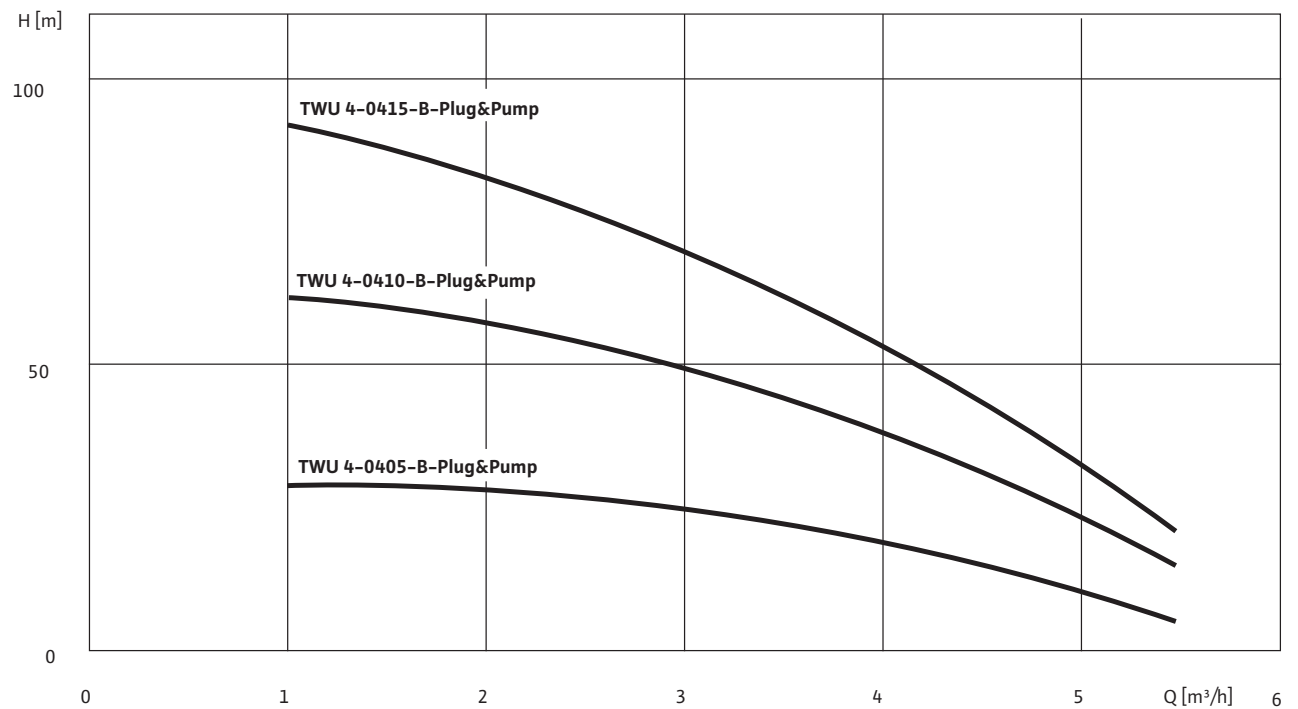
Accessories

- Cooling jacket pipes
- Cable kits for potable water and process water
- Switchgears
- Connection and installation material



Wilo-Sub TWU 4-04.. Plug & Pump

Pump curves Wilo-Sub TWU 4-04.. Plug & Pump



1~230 V or 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

Pumps and systems for domestic water supply

Systems

Wilo-Sub TWU 4-04.. Plug & Pump

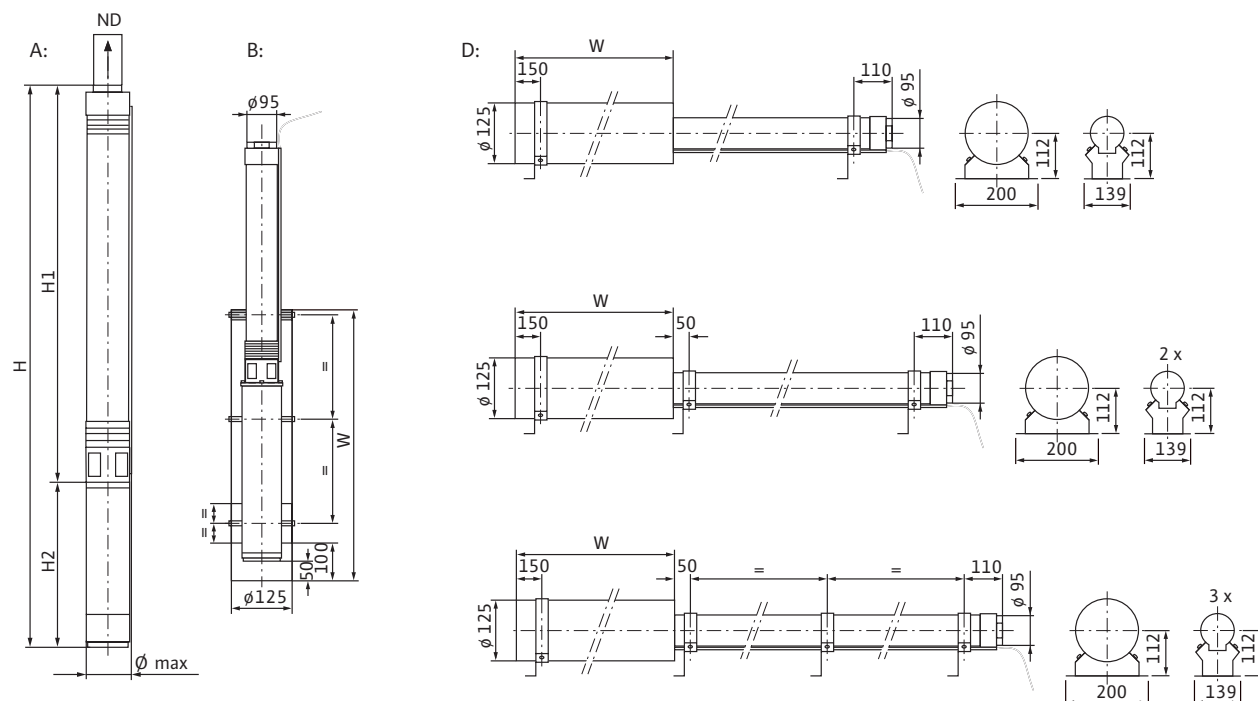
Motor data						
Wilo-Sub...	Mains connection	Motor diameter	Nominal motor power	Nominal current	Length of connection cable	Cable cross-section
	—	Ø	P ₂	I _N	L	—
	—	["]	[kW]	[A]	[m]	[mm ²]
TWU 4-0405-B-Plug&Pump/FC	1~230 V, 50 Hz	4	0.37	4.1	30	3x1.5
TWU 4-0405-B-Plug&Pump/DS	1~230 V, 50 Hz	4	0.37	4.1	30	3x1.5
TWU 4-0410-B-Plug&Pump/FC	1~230 V, 50 Hz	4	0.75	7.6	30	3x1.5
TWU 4-0410-B-Plug&Pump/DS	1~230 V, 50 Hz	4	0.75	7.6	30	3x1.5
TWU 4-0415-B-Plug&Pump/DS	1~230 V, 50 Hz	4	1.1	10.6	30	3x1.5

Ordering information					
Wilo-Sub...	Mains connection	LB	Art. no.	Art. no. for cooling jacket pipe	
	—			for vertical installation (B)	for horizontal installation (D)
	—			—	
TWU 4-0405-B-Plug&Pump/FC	1~230 V, 50 Hz	L	4093173	4064430	4064430 + 4065891
TWU 4-0405-B-Plug&Pump/DS	1~230 V, 50 Hz	L	4093175	4064430	4064430 + 4065891
TWU 4-0410-B-Plug&Pump/FC	1~230 V, 50 Hz	L	4093174	4064430	4064430 + 4065891
TWU 4-0410-B-Plug&Pump/DS	1~230 V, 50 Hz	L	4093176	4064430	4064430 + 4065891
TWU 4-0415-B-Plug&Pump/DS	1~230 V, 50 Hz	L	4093177	4064430	4064430 + 4065891

LB = ready for delivery, L = stock, C = order-specific production approx. 2 weeks, K = order-specific production approx. 4 weeks, A = delivery time on request

Wilo-Sub TWU 4-04.. Plug & Pump

Dimension drawing



A = vertical, B = vertical with cooling jacket, C = horizontal, D = horizontal with cooling jacket, E = vertical with pressure shroud, F = horizontal with pressure shroud

Dimensions, weights								
Wilo-Sub...	Pressure port	Dimensions					Installation	Weight
	—	H	H ₁	H ₂	W	Ø ³⁾	—	Unit
	—	[mm]					—	[kg]
TWU 4-0405-B-Plug&Pump/FC	Rp 1¼	672	430	242	500	98	A, B, D	18.1
TWU 4-0405-B-Plug&Pump/DS	Rp 1¼	672	430	242	500	98	A, B, D	22.9
TWU 4-0410-B-Plug&Pump/FC	Rp 1¼	889	590	299	500	98	A, B, D	20.4
TWU 4-0410-B-Plug&Pump/DS	Rp 1¼	889	590	299	500	98	A, B, D	25.2
TWU 4-0415-B-Plug&Pump/DS	Rp 1¼	1077	750	327	500	98	A, B, D	27.5

³⁾ For power cable to I_N, max. Ø for threaded connection

Pumps and systems for domestic water supply

Accessories

Mechanical accessories

Floating extractor coarse suction filter, G/GR



Floating coarse suction filter, mesh width 1.2 mm, with hose nozzle $1\frac{1}{4}$ " for near-surface water extraction of the prefiltered rainwater (see chapter on filter systems). Connection via customer-provided suction-proof hose connection to submersible pumps of the Wilo-Sub TWU 5-SE ... series.
Version with hose connection nozzle $1\frac{1}{4}$ ".

> Materials

Floating globe: Polyethylene
Filter: Stainless steel

> Versions

Filter type: Designation:
G Coarse suction filter without non-return valve
GR Coarse suction filter with non-return valve

Floating extractor fine suction filter, F/FR



Like coarse filter G. However, the floating fine suction filter has a mesh width of 0.23 mm. Offers ideal protection against contamination of the downstream rainwater supply system in the presence of non-prefiltered rainwater.
Version with hose connection nozzle $1\frac{1}{4}$ ".

> Materials

Floating globe: Polyethylene
Filter: Stainless steel

> Versions

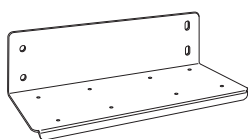
Filter type: Designation:
F Fine suction filter without non-return valve
FR Fine suction filter with non-return valve

Screw-in extraction fine suction filter



Fine suction filter without non-return valve, with a mesh width of 0.23 mm, for screwing directly into the pump suction port by means of a threaded elbow joint R $1\frac{1}{4}$ ". The pump pumps the storage water in independent supply through the attached stationary filter.

Wall bracket



Wall bracket including mounting accessories and vibration dampers for installation of pumps and water-supply units of the MP, MC, WJ, FMP, FMC, FWJ series

> Materials

Wall bracket: Steel, galvanized
Fixing sundries: Galvanized screws and washers
Vibration damper: Rubber

Mechanical accessories

Suction/pressure hose 1 1/4" SE – PN 10

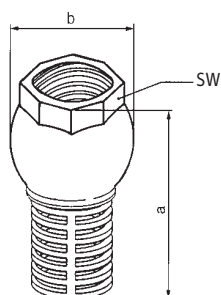


Suction- and pressure-resistant hose, –25 °C to 55 °C including two hose clips made of VA, as well as hose nozzles R 1 and R 1 1/4 for connection to the floating extractor.

> Versions

Diameter (inside):	Length:
30 mm	1.5 m complete
	3.0 m complete
	5.0 m complete
	10.0 m complete
	15.0 m complete

Foot valve



Foot valve with built-in non-return valve for the suction line to the pumping station.

> Materials

Housing:	Brass
Strainer:	Brass

> Versions

Size	SW	a [mm]	b [mm]	Weight [kg]
Rp 1 1/4	49	95	62	0.4
Rp 1 1/2	57	105	70	0.6
Rp 2	69	116	83	0.9
Rp 2 1/2	85	146	103	1.2

Suction hose set



Suction hose set 3/4" for use of the Wilo-Jet WJ pump series, including foot valve and screwed connection R 1.

Hose material:	Noryl
Hose length:	7 m

Wilo quick coupling



Quick coupling R 1 suitable for practical and quick installation/dismantling of submersible pumps and their pressure pipe at the head of the rainwater storage tank.

> Materials

Coupling halves:	Brass
Hexagon nut:	Brass with clamp ring
Seal:	Rubber

Pumps and systems for domestic water supply

Accessories

Mechanical accessories

Wilo pressure control kit 0 – 16 bar



In the shunt on the kit attached to the pipework on the pressure side for mounting an automatic pressure-dependent single-pump system in combination with the switchgear ER-1. The diaphragm pressure vessel placed on top is for buffering leakages.

> Materials

Ball valve	Brass, nickel-plated
Diaphragm vessel	St37, diaphragm, food-safe

> Scope of delivery

- Red brass and/or bronze fittings
- Diaphragm pressure vessel 8 l, PN16
- Pressure gauge 0–16 bar
- Pressure switch 0–16 bar

Wilo pressure control kit ER-2

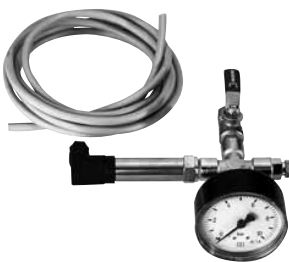


For mounting an automatic two-pump system with pressure-dependent operation. The pressure sensor measures the current pressure and provides signals which can be evaluated by the ER-2 switchgear.

> Scope of delivery/materials

Red brass and/or bronze fittings
Diaphragm pressure vessel 8 l, PN16
Pressure sensor, stainless steel,
4–20 mA/0–16 bar
Connection $\frac{3}{4}$ "

Wilo signal transmitter kit



For mounting an automatic pump system with pressure-dependent operation. The pressure measured by the pressure sensor can be evaluated by the ER-2.

> Scope of delivery

- Pressure sensor, stainless steel, with 4–20 mA signal
- Pressure range 0–16, 0–25 or 0–40 bar
- Red brass and/or bronze fittings
- Pressure gauge

Wilo low-water cut-out switchgear kit (WMS)

not illustrated

Pressure switch as low-water signal transmitter for direct connection to the supply pressure pipe (R $\frac{3}{4}$)

Mechanical accessories

Wilo Niro steel cable



Stainless steel cable for lowering the submersible pump into the borehole.
Recommended maximum weight load 100 kg.

> Scope of delivery

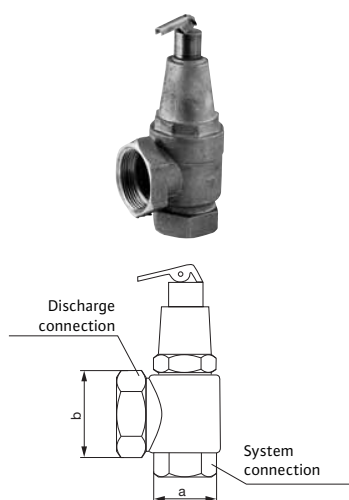
Stainless steel cable with 3 mm diameter.
Available in length increments of 1 m.

Wilo cable clamps



For fastening the Niro steel cable to the support hooks for the pump and for the well cover.

Wilo safety valve (full-stroke safety valve)



Safety valve for protecting the system against overpressure when water supply and pressure boosting systems are used.

Installation according to local building regulations and DIN.

Attention: Safety valves are delivered with factory settings only.

Discharge pressure 6, 10 or 16 bar. Specify when ordering.

> Technical data

Approved fluid	Water without abrasive substances
Fluid temperature	Max. 130 °C
Response pressure	10 % above factory-set pressure
Discharge output:	see table

> Materials

Housing	Red brass/brass
Seal	Perbunan/EPDM

Size a	Discharge connection b [m³/h]		Discharge output with 10 % excess pressure		
	6–10 bar	16 bar	6 bar	10 bar	16 bar
Rp ¾	Rp 1 ¼	Rp 1 ¼	12.9	16.6	21.0
Rp 1	Rp 1	Rp 1 ¼	9.0	13.0	37.5
Rp 1 ¼	Rp 1 ¼	Rp 2	18.9	24.4	73.5

Wilo air valve UBV



For ventilation and avoiding underpressure in the ascending pipe.

Installation above water level (R 1 1/4, 1 1/2, 2)

> Material:

Brass

Pumps and systems for domestic water supply

Accessories

Mechanical accessories

Wilo drainage valve UEV



For drainage of the ascending pipe in conjunction with system operations using air domes, whereby the air in the ascending pipe is to be used for filling the air dome (R 1¹/₄, 1¹/₂, 2).

>Material:

Steel, galvanized

Wilo pressure reducer



For the prevention of pressure damage and for reducing water consumption. In addition, irritating flow noise is minimised due to p = const. control.

>Version

- Housing with pressure gauge connection on both sides
- Variably adjustable by means of setting screw
- Setpoint spring
- Valve insert including diaphragms
- Fine sieve (0–16 mm)
- DVGW–certified

>Technical data

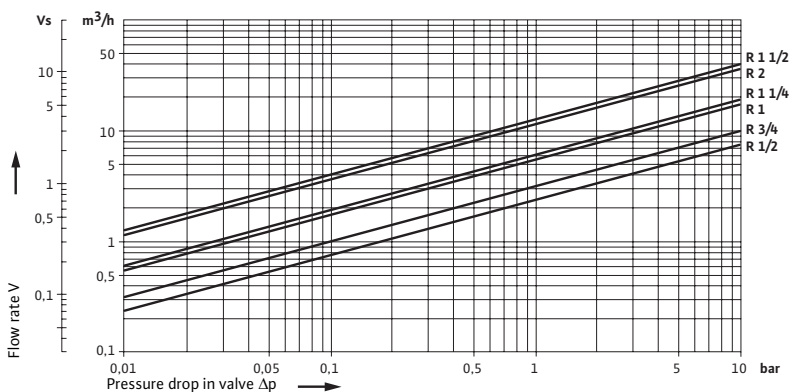
T _{max.}	40 °C
Supply pressure	PN25
Minimum pressure gradient	1 bar
Diaphragm load	Max. 3 bar
Nominal diameters	1/2" to 2"

>Materials

Housing	Brass
Valve seat	Plastic
Screwed connections	Brass
Diaphragms	NBR (fabric-reinforced)
Seals	NBR
Fine sieve/screws/nuts	Stainless steel

>Options

Pressure gauge, angle, versions for other pressures and temperatures



Mechanical accessories

Wilo float valve



Float valve for use in open tanks with up to 1000 l usable volume for controlling levels. Float valve R 1/2 as control valve in conjunction with diaphragm valve.

> Technical data

Approved fluid	Water without abrasive substances
Fluid temperature	Max. 50 °C
Inlet pressure	Max. 5 bar

> Materials

Housing	Brass
Control rod	Stainless steel
Floater	Plastic

Flow rate table – Weights

Nominal diameter	Supply pressure in bar					Weight
	1	2	3	4	5	
DN			m ³ /h			kg
R 1/2	approx. 2.1	approx. 3.0	approx. 3.6	approx. 4.2	approx. 4.7	1.4
R 1 1/2	approx. 13.5	approx. 19.0	approx. 23.0	approx. 27.0	approx. 30.0	3.5
R 2	approx. 17.4	approx. 24.6	approx. 30.0	approx. 34.8	approx. 38.9	4.9

Wilo diaphragm valve



Diaphragm valve for use with open tanks with a usable volume above 1500 l for controlling levels in conjunction with a float valve R 1/2 as control valve.

> Technical data

Approved fluid	Water without abrasive substances
Fluid temperature	Max. 90 °C
Inlet pressure	Min. 0.8 bar, max. 16 bar

> Materials

Housing	Cast iron, externally and internally plastic-coated
Control rod	Stainless steel

Flow rate table – Weights

Nominal diameter	Supply pressure in bar					Weight
	1	2	3	4	5	
DN			m ³ /h			kg
80	approx. 90	approx. 126	approx. 154	approx. 180	approx. 200	24
100	approx. 144	approx. 200	approx. 250	approx. 300	approx. 320	38
125	approx. 250	approx. 350	approx. 430	approx. 500	approx. 540	68

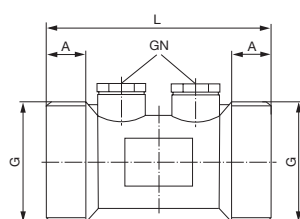
Wilo non-return valve



Non-return valve without screwed connections for use in water supply applications, DVGW-certified.

> Materials

Body:	MS 58
Max. temperature:	90 °C



DN	G	L	A	GN	SW	PN
	["]	[mm]		["]	[mm]	[bar]
15	3/4	66	10	1/4	25	10
20	1	771	3	1/4	30	10
25	5/8	801	4	1/4	38	10
32	3/2	901	6	1/4	38	10
40	2	1001	7	1/4	46	10
50	5/2	1152	1	1/4	60	10

> Options

Non-return valve in DN 65 and larger.

Pumps and systems for domestic water supply

Accessories

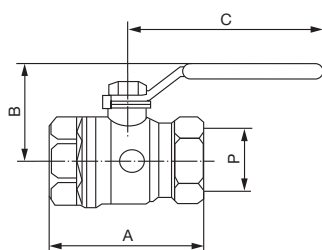
Mechanical accessories

Wilo screwed connection for non-return valve

not illustrated

Screwed connection for non-return valve made of brass

Wilo ball valve



Shut-off devices for simple and safe installation and servicing of pumps, components and systems.

>Version

Ball valve with lever grip, chrome-plated brass.

Suitable for potable water applications in accordance with DIN 1988.

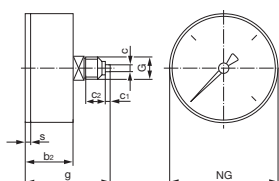
Ball valves up to 2" DVGW-certified.

R ["]	A	B	C [mm]	P	Kv	PN [bar]
1/4	39	26.1	042	08	6.6	42
1/2	54	33.7	078	10	10.2	42
3/4	62	45.5	096	12.7	18.45	42
1	75	49.6	096	17.5	36.3	35
5/4	84	53.7	096	22.5	73.5	35
3/2	93	68	138	28	105	35
2	107	73.5	138	35	158	35
5/2	143	101	172	45	240	28

>Options

Seals in PTFE.

Wilo pressure gauge

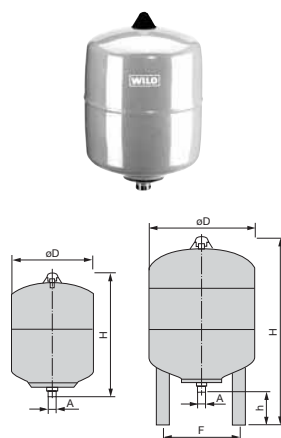


Pressure gauge for displaying the current pressure in the pipe system.

Pressure range [bar]	NG [mm]	G ["]	c1	c2	c [mm]	b2	S	SW	g
0-6	63	1/4	3	12	5	28	3	14	53
0-10	63	1/4	3	12	5	28	3	14	53
0-16	63	1/4	3	12	5	28	3	14	53
0-25	63	1/4	3	12	5	28	3	14	53
0-40	63	1/4	3	12	5	28	3	14	53

Mechanical accessories

Wilo diaphragm pressure vessel, type D



The tanks are for avoiding pressure surges in the system and reduce the switching frequency of the pumps/system.

> Materials

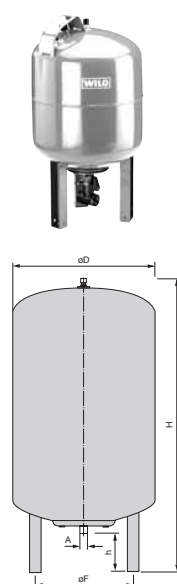
Diaphragm vessel	RSt37-2
Diaphragms	Potable-water resistant special elastomer
Surface	Powder coating
Water connection	Stainless steel

Attention: These pressure expansion tanks do not comply with DIN 4807/Part 5 and are for that reason not approved for use in potable water systems in Germany.

Expansion tanks for use in potable water systems in accordance with DIN 4807/Part 5 are described in catalogue B4 "Pressure boosting", "Accessories" chapter.

	Operating pressure [bar]	Usable volume [l]	D [mm]	H [mm]	A	h [mm]	F	Weight [kg]
8 D	16	6.0	206	315	R 3/4	-	-	4.5
	25	6.0	206	315	R 3/4	-	-	5.0
12 D	16	9.0	280	293	R 3/4	-	-	6.0
18 D	11	13.5	280	370	R 3/4	-	-	7.5
25 D	10	18.7	280	490	R 3/4	-	-	9.0
33 D	10	23.5	280	690	R 3/4	110	236	11.5

Wilo diaphragm pressure vessels, export version type DE



Pressure expansion vessel with replaceable diaphragms according to the requirements of the German food protection law [Lebensmittelschutzgesetz] for use in water supply systems, pressure boosting systems and sprinkling systems.

The tanks are for the purpose of avoiding pressure surges in the system and reduce the switching frequency of the pumps/systems. All parts that come into contact with the fluid are plastic-coated.

> Materials

Diaphragm vessel	RSt37-2
Diaphragms	Potable-water resistant special elastomer
Surface	Stove-enamel finish
T max	70 °C (343K)

> Options

Vessel in accordance with DIN 4807/5 and DIN-DVGW (Reg. No. NW9481AT2535) with flow-through fixture, diaphragms in accordance with KTW (Cat. C) and plastic coating in accordance with KTW (Cat. B) (see DEA accessories).

Attention: These pressure expansion vessels do not comply with DIN 4807/T5 and are for that reason not approved for use in potable water systems in Germany.

Expansion tanks for use in potable water systems in accordance with DIN 4807/Part 5 are described in catalogue B4 "Pressure boosting", "Accessories" chapter.

	Max. usable volume [l]	Operating pressure [bar]	D [mm]	H [mm]	A G	F [mm]	h	Weight [kg]
60 DE	45	10	40	740	1	293	160	18
80 DE	60	10	480	730	1	351	152	20
100 DE	75	10	480	834	1	351	152	25
200 DE	150	10	634	967	1 1/4	485	144	43
300 DE	225	10	634	1267	1 1/4	485	144	48
500 DE	375	10	740	1475	1 1/4	570	133	79

Pumps and systems for domestic water supply

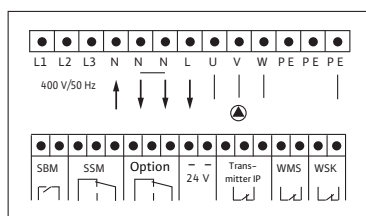
Accessories

Electrical accessories

Wilo ER-1 single pump switchgear



Terminal diagram



Fully automatic switchgear for wall-mounted installation for the operation of a pump with a drive motor with maximum current consumption according to the following table.

> Electrical connection

Type	Starting mode	$I_{\max}$
ER-1-4,0	Δ	10.0 A
ER-1-5,5	Δ	14.0 A
ER-1-7,5	Δ	18.5 A
ER-1-5,5	$Y\Delta$	14.0 A
ER-1-7,5	$Y\Delta$	18.5 A

Other sizes on request

> Pump switching

Pressure switch (WVA kit)
or
WA065 float switch

> Low water cut-out

WMS pressure switch
or
WA65 float switch
or
submersible electrodes (2 pieces required)
or
SK277 switchbox
incl. 3 submersible electrodes

> Equipment

- Built-in electronic motor protection
- Triggering of protection against low water level
- Main switch, 4-pole
- Selector switch Manual-0-Automatic
- Run and fault indicator lights
- Potential-free collective fault signal and collective run signal
- Switch-off delay, variable 0 – 120 sec.
- Integrated test run function
- Housing material: Plastic, above 5.5 kW steel sheeting, powder-coated
- Protection class IP 41; starting at 5.5 kW IP 54
- Dimensions: on request

> Options

All switchgears also available in:
NR version (with fine resolution level control relay) and/or
SS version (soft starter).

Electrical accessories

Wilo ER-2 double pump switchgear



Fully automatic switchgear for wall-mounted installation for the operation of two pumps with one drive motor each with maximum current consumption according to the following table.

> Electrical connection

Type	Starting mode	I_{max}
ER-2-4,0	Δ	2 x 10.0 A
ER-2-5,5	Δ	2 x 14.0 A
ER-2-7,5	Δ	2 x 18.5 A
ER-2-5,5	$Y\Delta$	2 x 14.0 A
ER-2-7,5	$Y\Delta$	2 x 18.5 A

Other sizes on request

> Pump switching

Pressure transmitter (0-16, 0-25 or 0-40 bar)

> Low water cut-out

- or WMS pressure switch
- or WA65 float switch
- or submersible electrodes (2 pieces required)
- or SK277 switchbox
- incl. 3 submersible electrodes

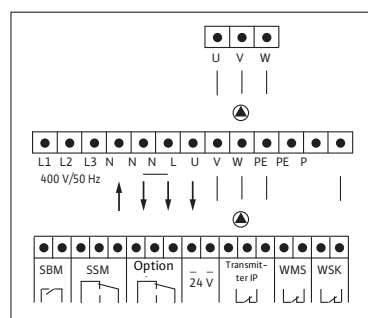
> Equipment

- Built-in electronic motor protection for each pump
- Triggering of protection against low water level
- Main switch, 4-pole
- Selector switch Manual-0-Automatic for each pump
- Operation and fault signal light for each pump
- Potential-free collective fault signal and collective run signal
- Switch-off delay, variable 0-120 sec.
- Integrated test run function (can be deactivated)
- Housing material: Plastic, above 5.5 kW steel sheeting, powder-coated
- Protection class IP 41; starting at 5.5 kW IP 54
- Dimensions: on request

> Options

All switchgears also available in:
NR version (with fine resolution level control relay) and/or
SS version (soft starter).

Terminal diagram



- The type of current and the voltage of the mains connection are to be checked (3~400 V/50 Hz/60 Hz as per IEC 38).
The shape of the mains connection voltage curve according to VDE 0160 must be maintained in order to ensure perfect electrical operating conditions.
- The data listed on the name plate of the pump motor to be activated is to be observed.
- The mains connection cable depends on the number of pumps and on local regulations. VDE and EVU directives and local requirements must all be complied with.
- The connection line is to be placed in such a way that it can under no circumstances come into contact with the pipe and/or the pump and motor housing.
- For maximum back-up fuses, see table.
- For motor connection cable, see table. Specification of the minimum cross-section as per VDE 0100/Part 430, ampacity of cables and lines with PVC insulation and installation type B2 for +30 °C ambient temperature.
- Motor and transmitter cables must be shielded.
Take care to ensure that the cable shields are correctly connected.

Back-up fuse:

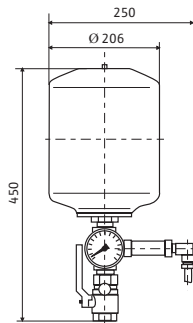
K:	Automatic cut-out
gl:	Fusible cut-out
Storage:	-10 °C to +60 °

Pumps and systems for domestic water supply

Accessories

Electrical accessories

Wilo sensor ER-2 kit



For mounting an automatic two-pump system with pressure-dependent operation. The pressure sensor measures the current pressure and provides signals which can be evaluated by the ER-2 switchgear.

- Nominal connection diameter: R $\frac{3}{4}$
- Red brass and/or bronze fittings
- Diaphragm pressure vessel 8 l, PN 16
- Pressure sensor, stainless steel, 4–20 mA/0–16 bar
- Installation and operating instructions

Attention:

Take care to ensure that a non-return valve is placed between pump and kit.

Wilo SK 277 (dry-running protection device)



As low water cut-out switchgear for indirect connection. A suitable cable must be provided onsite for the individual electrode.

Attention:

- At least two submersible electrodes are required for direct connection to ER series switchgears.

Do not fail to check cable suitability for potable water applications.

Automatic kit



Automatic potable water replenishment. Scope of delivery: Solenoid valve with 2 m cable, WAOEK float switch 65, with ready-to-plug small switchgear for direct control of the solenoid valve

> Versions

Size	Length of cable
R $\frac{1}{2}$	5 m
R $\frac{1}{2}$	20 m
R 1	5 m
R 1	20 m

Wilo immersion probes



As low water cut-out switchgear for indirect connection.

Cable length: 3 m, 4 m, 5 m, 10 m, 15 m, 20 m, 25 m, 30 m, 35 m, 40 m.

> Options

Greater cable lengths

Attention:

At least 2 submersible electrodes are required for direct connection to ER series switchgears

Electrical accessories

Wilo submersible electrodes (individual electrodes)



As low water cut-out switchgear for indirect connection. A suitable cable must be provided onsite for the individual electrode.

Attention:

At least two submersible electrodes are required for direct connection to ER series switch-gears.

Do not fail to check cable suitability for potable water applications.

Float switch WA 65



As low water cut-out switchgear for indirect connection
Switching points: **up = On; down = Off**

> Materials

- Floater: Plastic
- Cable: H07RN-F (not approved for potable water)
- Fluid temperature: Max. 65 °C
- Cable length: See price list

Float switch WA 95



Like WA 65, however, temperature-resistant up to 95 °C. Up "On"/down "Off".

Float switch WAEK 65



Like WA 65, however, with small EK switchgear, can be used for pumps with single-phase motors with nominal power up to 1 kW.

Float switch WA0 65



To be used when the actuated pump pumps into a tank, above the level of which switching is to take place.
Switching points: **up = Off; down = On**

> Materials

- Floater: Plastic
- Cable: H07RN-F (not approved for potable water)
- Fluid temperature: Max. 65 °C
- Cable length: See price list

Pumps and systems for domestic water supply

Accessories

Electrical accessories

Float switch WAOEK 65



Like WAO 65, however with small EK switchgear, can be used for pumps with single-phase motors with nominal power up to 1 kW.

Low water cut-out switchgear WMS

not illustrated

As low water cut-out switchgear for direct connection.

Low water cut-out switchgear kit consisting of:

- Pressure switch including plug and approximately 1.2 m cable
- T-piece R $\frac{1}{4}$
- Reducer R $\frac{3}{4} - \frac{1}{4}$
- Pressure gauge
- Sealing material

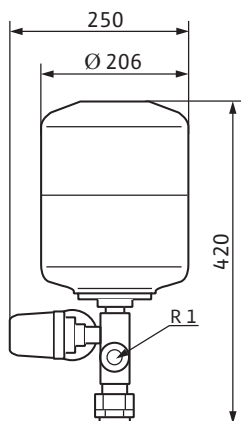
Attention:

An additional connection joint is required when fitting the WMS on the Wilo-Economy CO-1-MVL/ER system. Please order separately.

Principle of operation: Supply pressure switch locked at 1.0 bar and enabled at 1.3 bar (factory setting in compliance with DIN 1988).

The factory setting can be modified.

Wilo WVA kit (pressure switching)



For mounting an automatic single-pump system with pressure-dependent operation. The connected pump is activated when the start-up pressure set for the pressure switch is fallen short of and is deactivated when the deactivation pressure set for the pressure switch is exceeded. A diaphragm pressure vessel is attached to minimise the switching frequency.

> Materials

- Control valve: Red brass
 - Diaphragm vessel: St 37, diaphragms
 - Inlet: Rp 1
 - Outlet: Rp 1
 - Control valve with built-in non-return valve
 - Diaphragm pressure vessel 8 l, PN 16
 - Flat gasket
 - Installation and operating instructions
- 6 bar version:
- Pressure switch and pressure gauge 0 – 6 bar
- 10 bar version:
- Pressure switch and pressure gauge 0 – 10 bar

Attention:

If an installed stationary centrifugal pump is to be expanded to become an automatically operating water-supply unit, then fuse protection against dry running of the pump and a motor overload protection device are both required in addition to the pump switch.

Electrical accessories

Wilo-SK 602/622 tripping unit



Wall-mounted unit for electrical connection of single-phase and three-phase pumps with integrated thermal winding contacts (WSK) for monitoring the winding temperature (full motor protection).

Automatic reactivation of pump after power failure. After being tripped by full motor protection, the motor remains deactivated until it is manually reset.

Device version SK 602:

Includes contactors for full motor protection tripping, On/Off switch, an operation control light, terminals for external potential-free On/Off switching and terminal strip.

Device version SK 622:

Like SK 602, but also with potential-free contacts for external run and fault messages and fault light.

- Operating voltage: 1~230 V; 3~400 V

- Frequency: 50 Hz

- Max. motor power P_2 : kW

- Power dissipation: 4 W

- Protection class: IP 31

- Max. ambient temperature: 40 °C

- Weight: 0.25 kg

additionally SK 622:

- 2 potential-free contacts

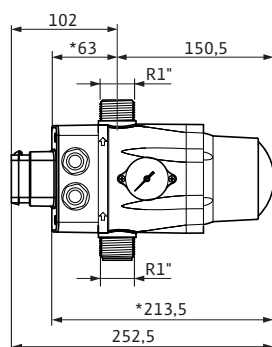
- Max. contact load: 230 V/1 A/150 VA

Pumps and systems for domestic water supply

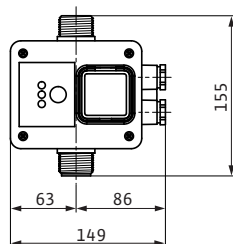
Accessories

Electrical accessories

Wilo-FluidControl/EK



* FluidControl



Electronically controlled pressure and flow monitor with protection against low water levels and a non-return valve. Inline version with input and output in vertical axis and uniform screw threads G 1. Including 2.5 m connection cable and EK switching plug and cable tie for quick and safe installation of ready-to-plug pump units. Suitable for direct connection to the pump housing and/or for wall-mounted installation by the use of a wall bracket (accessory). Automatic monitoring of pressure boosting/water supply systems. Activation of single-phase pump units when a specified setpoint pressure is fallen short of and time-delayed deactivation of the pump units following flow standstill. Wilo-FluidControl protects the systems against prolonged dry running when there is insufficient inflow of water, when the approved suction head is exceeded and when there are leaking and closed lines.

- Simple installation

- Especially compact design makes it suitable for many types of installation locations

- High operational reliability due to electronic fault signal

- Protection of the connected pumps due to built-in protection against low water levels

- Simple operation due to clear operating state display

- No additional diaphragm pressure vessel required

- Perfect corrosion protection, due to rust-free materials

- Wired ready-to-plug for fastest installation (Wilo-FluidControl EK)

- Start-up pressure: 1.5 bar – 2.7 bar

- Switch-off pressure: Min. 2.7 bar and less than 1.5 l/min. volume flow

- Nominal voltage: 1~230 V

- Frequency: 50 – 60 Hz

- Protection class: IP 65

- Weight: 1.6 kg

- Materials

Housing: Nylon PA 6

Diaphragm: NBR

- Flow monitor: Brass P-CuZn 40 PB 2 UNI 5705

- Max. volume flow: 10 m³/h

- Max. delivery pressure: 10 bar

- Max. fluid temp.: 0 – 60 °C

- Max. current consumption: During start-up 25 A; during permanent operation 10 A

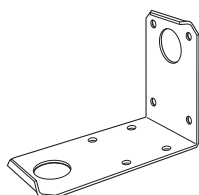
Installation position only as shown in the dimension drawing

Wilo-FluidControl



Version as with Wilo-FluidControl/EK, however without electrical wiring and without EK adapter plug.

Wall bracket for Wilo-FluidControl



Wall bracket including installation accessories for secure fixation of the pressure and flow monitor, Wilo-FluidControl, and Wilo-FluidControl EK. Included in the scope of delivery is a fixation kit consisting of reducer R 1¹/₄ x Rp 1 and counter nut Rp 1¹/₄ for fixation of the fluid control.

> Materials

Wall bracket: Steel, galvanized

Fixing sundries: Galvanized screws and washers

Electrical accessories

Switchbox ESK 1 Switchbox PSK 1



Fig.: Switchbox PSK 1

Switchgears for connecting a pump for supplying water from boreholes and rainwater storage tanks (for single-family and multi-family houses), including 2 submersible electrodes and 4 brackets for wall-mounted installation.

Connection options for 2 submersible electrodes and 1 pressure switch/float switch. Can be used with 1~230 V and 3~400 V. With integrated motor protection, suitable for wall-mounted installation.

> Technical data

Operating voltage	1~230 V or 3~230/400 V
Frequency:	50/60 Hz
Protection class:	IP 54
Perm. ambient temperature:	-10 °C to +55 °C
Max. current consumption ESK 1:	1-12 A
Max. current consumption PSK 1:	10-23 A
Dimensions (W x H x D):	300 x 195 x 105
Weight:	2.5 kg (ESK 1) 2.8 kg (PSK 1)

Pumps and systems for domestic water supply

Accessories

Electrical accessories

Selection table Low water cut-out switchgear – Signal transmitters

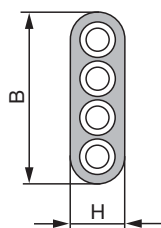
Application	Designation	Type/size
Protection against low water level with indirect connection to tanks provided by customer or well operation	Float switch	WA 65 Attention: Not permitted in potable water systems.
	Electrode with 3 m cable plus electrode relay	Mass (M) upper level (OE) lower level (UE)
Protection against low water level with direct connection to pressure pipe	Supply pressure switch	WMS

Overview table Wilo full motor protection tripping units

Tripping unit	On/Off switch	Terminals for external activation/deactivation	Operation light	Fault signal light	Potential-free contacts for external run signal	Potential-free contacts for external fault signal	Power contactor	Separate wall-mounted installation	Alternative switch cabinet installation	1~230 V	3~400 V plus neutral conductor
HMP 303 (1~)	109.5	375	–	1	26.6	–	–	–	–	–	–
HMP 605 (1~/3~)	157.5	448	423	1 1/4	31.3	28.8	–	–	–	–	–

Electrical accessories

Wilco motor cable kit for motors 4"



Factory-wired cable kit for simple connection to the pump motor.

Scope of delivery

Flat cable with plug connection on the motor side and bare cable on the switchbox side.

Available in lengths of 15 m, 25 m, 35 m, 45 m for 1~230 V and 3~400 V.

> Wilco motor cable

For the freely selectable extension of the cable attached to the pump motor. Suitable for portable water applications. Flexible class E copper cable in accordance with NFC 32-013/IEC 228.

> Scope of delivery

Flat cable with bare cable ends. Available in length increments of 1 m.

Insulation: Polyethylene

Temperature limits:

In water Up to + 50 °C

Exposed to air -20 to + 50 °C

> Option

Cable with PVC insulation.

Ø	B (± 0.3 mm)	H (± 0.3 mm)
4 x 1.5 mm ²	15.8 mm	5.0 mm
4 x 2.5 mm ²	19.5 mm	5.6 mm
4 x 4.0 mm ²	21.5 mm	6.5 mm
4 x 6.0 mm ²	23.6 mm	7.2 mm
4 x 10.0 mm ²	29.1 mm	8.8 mm
4 x 16.0 mm ²	35.3 mm	10.4 mm

Wilco earth cable



Single-wire cable as earth cable with rubber coating for permanent use in water. KTW-approved for use in potable water.

Ø	B (± 0.3 mm)
1 x 8.4 mm ²	8.9 mm
1 x 25 mm ²	13 mm

Wilco motor cable for TWU 4-...-QC pumps



Factory-wired cable set for simple extension of the motor cable of the TWU 4-...-QC pumps.

> Scope of delivery

Flat cable with plug connections.

Available in lengths of 10 m, 30 m, 50 m, 80 m and 100 m.

Cable ties for fixing the motor cable to the water supply line.

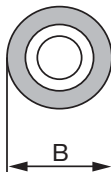
Safety rope (polypropylene, 6 mm).

Pumps and systems for domestic water supply

Accessories

Electrical accessories

Wilo motor cable for potable water



For the freely selectable extension of the cable attached to the pump motor. Suitable for potable water applications. Flexible class E copper cable in accordance with ACS 04 ACC LI 021, NF C 15-100-AD8, BS 6920, IEC 60332-1.

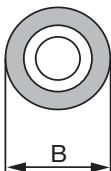
> Scope of delivery

Round cable with bare cable ends. Available in length increments of 1 m.

Insulation: PVC
Temperature limits:
In water Up to + 40 °C
Exposed to air Up to + 70 °C

Ø	B (+/-0.5 mm)	Weight
4 x 1.5 mm ²	11.0 mm	163 kg/km
4 x 2.5 mm ²	12.9 mm	245 kg/km
4 x 4.0 mm ²	14.7 mm	340 kg/km
4 x 6.0 mm ²	16.9 mm	455 kg/km
4 x 10.0 mm ²	20.0 mm	680 kg/km
4 x 16.0 mm ²	23.0 mm	950 kg/km
3 x 1.5 mm ²	10.0 mm	135 kg/km
3 x 2.5 mm ²	11.8 mm	175 kg/km
3 x 4.0 mm ²	13.4 mm	250 kg/km
3 x 6.0 mm ²	15.0 mm	352 kg/km
3 x 10.0 mm ²	16.0 mm	475 kg/km
3 x 16.0 mm ²	20.0 mm	685 kg/km

Wilo motor cable for process water



For the freely selectable extension of the cable attached to the pump motor. Flexible class E copper cable.

> Scope of delivery

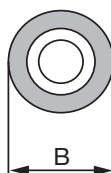
Round cable with bare cable ends. Available in length increments of 1 m.

Insulation: Ethylene – propylene – rubber (EPR)
Temperature limits:
In water Up to + 50 °C
Exposed to air Up to + 70 °C

Ø	B (+/- 1 mm)	Weight
4 x 4.0 mm ²	15.0 mm	388 kg/km
4 x 6.0 mm ²	17.0 mm	520 kg/km
4 x 10.0 mm ²	22.5 mm	930 kg/km
4 x 16.0 mm ²	27.0 mm	1300 kg/km
4 x 25.0 mm ²	31.5 mm	1880 kg/km
4 x 35.0 mm ²	35.5 mm	2450 kg/km
4 x 50.0 mm ²	41.0 mm	3380 kg/km
4 x 70.0 mm ²	45.5 mm	4450 kg/km
4 x 95.0 mm ²	52.5 mm	5830 kg/km
4 x 120.0 mm ²	57.0 mm	7100 kg/km
3 x 25.0 mm ²	28.5 mm	1500 kg/km
3 x 35.0 mm ²	32.0 mm	1970 kg/km
3 x 50.0 mm ²	37.0 mm	2700 kg/km
3 x 70.0 mm ²	41.0 mm	3520 kg/km

Electrical accessories

Wilo-PT100 probe cable (for 4" motors)



For freely selectable extension of the PT100 temperature sensor built into the pump motor.
Not suitable for use in potable water.

> Scope of delivery

Round cable with bare cable ends. Available in length increments of 1 m.

Insulation:	PVC	
Temperature limits:		
In water	Up to + 50 °C	
Exposed to air	Up to + 70 °C	
Ø	B (+/- 1 mm)	Weight
4 x 1.0 mm ²	9.5 mm	170 kg/km

Wilo heat shrink cable sleeve



For connecting two bare cable ends.

> Scope of delivery

Kit consisting of 4 shrink hose sockets with accessories.
Available for cable cross-sections of 4 x 1.5 mm² to 4 x 25 mm².

Wilo motor cable connector kit



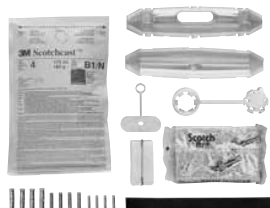
For safe quick-plug connection of motor cable and cable extension.

Attention: Motor cable must already be equipped with a plug.

> Scope of delivery

Kit consisting of a coupling component, 2-component sealing resin and small parts.
Available for cable cross-sections of 4 x 1.5 mm².

Wilo spillage kit



For the safe connection of two bare cable ends located under water.

> Scope of delivery

Kit consisting of plastic 2 half-shells and a 2-component sealing resin, in addition to 4 cable clamps.

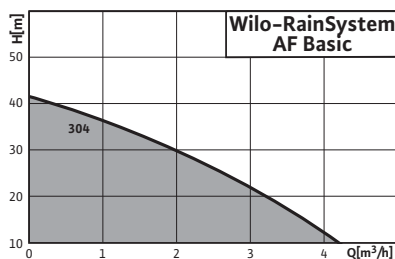
Available for cable cross-sections of 4 x 4 mm² to 4 x 10 mm², 4 x 16 mm², 4 x 35 mm², 4 x 70 mm², 4 x 120 mm² and 4 x 180 mm².

Rainwater utilisation

Pump systems with system separation

Series overview Wilo-RainSystem AF ...

Series: Wilo-RainSystem AF Basic

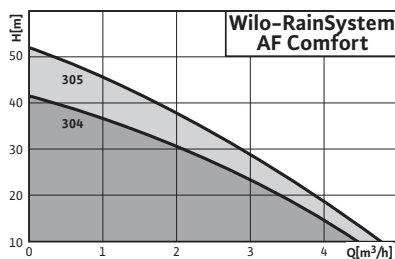


> Rainwater utilisation for reducing potable water consumption in conjunction with rainwater storage tanks or vessels:

- Toilet flushing
- Sprinkling/irrigation
- Supplying machines
- Secondary cleaning purposes and other non-potable water applications



Series: Wilo-RainSystem AF Comfort

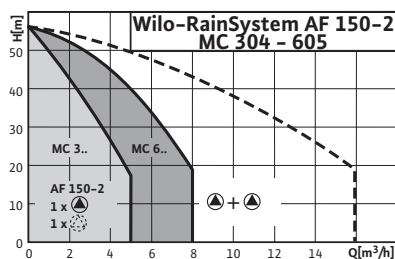


> Rainwater utilisation for reducing potable water consumption in conjunction with rainwater storage tanks or vessels:

- Toilet flushing
- Sprinkling/irrigation
- Supplying machines
- Secondary cleaning purposes and other non-potable water applications



Series: Wilo-RainSystem AF 150



> Rainwater utilisation in multi-family houses and small trade businesses for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.



Series overview Wilo-RainSystem AF ...

Series: Wilo-RainSystem AF Basic

> Product advantages

- Compact, ready-to-plug rainwater utilisation system
- Low-noise, due to multistage centrifugal pump and complete encapsulation of the system
- In compliance with DIN 1989 and EN 1717
- High economic efficiency due to fresh water replenishment according to requirements
- Flow- and noise-optimised replenishment reservoir
- All parts that come in contact with the fluid are corrosion-free

> Additional information:

Page

- System description 198
- Equipment/function 194
- Technical data 196
- Pump curves, dimensions 200
- Accessories for
Wilo filter systems..... 211
- Accessories 215

Series: Wilo-RainSystem AF Comfort

> Product advantages

- Compact, ready-to-plug rainwater utilisation system
- Low-noise, due to multistage centrifugal pump and complete encapsulation of the system
- Automatic support function for evacuation of the air from the suction line
- In compliance with DIN 1989 and EN 1717
- Compliance with previous performance parameters; this ensures that interchangeability with previous systems is maintained
- High economic efficiency due to fresh water replenishment according to requirements

> Additional information:

Page

- System description 199
- Equipment/function 194
- Technical data 196
- Pump curves, dimensions 200
- Accessories for
Wilo filter systems..... 211
- Accessories 215

Series: Wilo-RainSystem AF 150

> Product advantages

- Low-noise, due to standard multistage centrifugal pumps
- All parts that come in contact with the fluid are corrosion-free
- Maximum operational reliability, due to trendsetting fully electronic RainControl Professional controller
- High economic efficiency due to fresh water replenishment according to requirements
- High reliability, due to flow- and noise-optimised replenishment reservoir

> Additional information:

Page

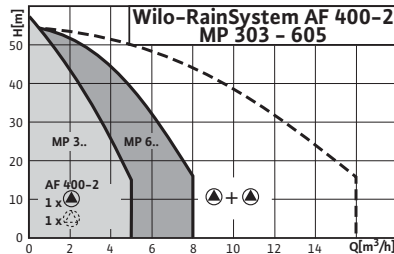
- System description 201
- Equipment/function 194
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- Pump curves, dimensions 202
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Wilo filter systems..... 211
- Accessories 215

Rainwater utilisation

Pump systems with system separation

Series overview Wilo-RainSystem AF 400, RainCollector II RWN, accessories

Series: Wilo-RainSystem AF 400

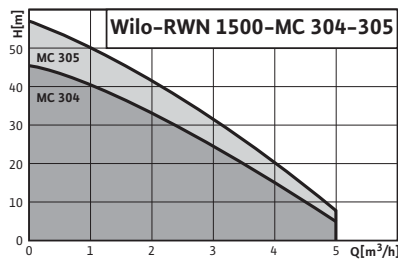


> Rainwater utilisation for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.

- Toilet flushing
- Sprinkling/irrigation
- Supplying machines
- Secondary cleaning purposes and other non-potable water applications in the commercial and industrial sector



Series: Wilo-RainCollector II RWN



> Rainwater utilisation for reducing potable water consumption for:

- Toilet flushing
- Sprinkling/irrigation
- Supplying washing machines
- Secondary cleaning purposes and other non-potable water applications



Accessories



- > Filters
- > Connection accessories
- > etc.

Series overview Wilo–RainSystem AF 400, RainCollector II RWN, accessories

Series: Wilo–RainSystem AF 400

> Product advantages

- Low-noise, due to standard multistage centrifugal pumps
- All parts that come in contact with the fluid are corrosion-free
- Maximum operational reliability, due to trendsetting fully electronic RainControl Hybrid controller
- High economic efficiency due to fresh water replenishment according to requirements
- High reliability, due to flow- and noise-optimised overall concept
- Automatic control of the feeding pump
- System/level control in the low-voltage range

> Additional information:

Page

- System description 205
- Equipment/function 194
- Technical data 196
- Pump curves 206
- Pump curves, motor data 207
- Dimensions 208
- Accessories for Wilo filter systems 211

Series: Wilo–RainCollector II RWN

> Product advantages

- Particularly suitable for retrofitting existing buildings
- Low-noise, self-priming pump ensures almost noiseless system operation
- Corrosion-free
- Can be expanded at any time
- Patented multi-tank system with replenishment and settling zone (Wilo MKS system)
- Greatest possible connection flexibility, due to rotating rainwater inlet

> Additional information:

Page

- System description 209
- Equipment/function 194
- Technical data 196
- Pump curves, dimensions 210
- Accessories for Wilo filter systems 211

Rainwater utilisation

Pump systems with system separation

Equipment/function Wilo-RainSystem/Rain-Collector

	Wilo-RainSystem AF Basic and Comfort	Wilo-RainSystem AF 150	Wilo-RainSystem AF 400	Wilo-Rain-Collector II RWN
Design				
Compact rainwater utilisation system	•	–	–	–
Replenishment reservoirs [l]	11	150	400	1500
Self-priming pump	•	•	–	•
Corrosion-free	•	•	•	•
Protection against low water level	•	•	•	•
UV-stabilised system tank	•	•	•	•
Diaphragm pressure vessel	–	•	•	–
Connection for backflow warning	• (only Comfort)	•	–	–
Corrosion-free steel tubing framework	–	•	•	–
Ball valve on suction and pressure sides	–	• (not for connection to rainwater storage tank)	•	–
Manifold on pressure side	–	•	•	–
Pressure gauge	–	•	•	•
Hydraulics				
Self-priming	•	•	–	•
Non-self-priming	–	optional	•	optional
Multistage centrifugal pump	•	•	•	•
Directly flanged motor	•	•	•	•
Motor				
Mains connection 1~230 V	•	•	•	•
Mains connection 3~400 V	–	–	•	–
Equipment/scope of delivery				
Electronic control, RainControl Professional	–	•	–	–
Electronic system control, RainControl Hybrid	–	–	•	–
Menu-guided operation and LCD display	• (only Comfort)	•	–	–
Signals concerning operation and faults	•	•	•	–
Wilo-FluidControl	• (only Basic)	–	–	•
Pump cycling and test run function	–	•	•	–
Automatic fault-actuated switchover and peak-load cut-in	–	•	•	–
Automatic water exchange in the replenishment reservoir	•	•	•	–
Automatic protection of the solenoid valve against lime deposits	• (only Comfort)	•	–	–

• = available, – = not available

Equipment/function Wilo-RainSystem/Rain-Collector

	Wilo- RainSystem AF Basic and Comfort	Wilo- RainSystem AF 150	Wilo- RainSystem AF 400	Wilo-Rain- Collector II RWN
Equipment/scope of delivery (continued)				
Permanent display of rainwater storage tank level, system pressure, operating state via LCD display	• (only Comfort)	•	optional	–
Accessories				
Operating hours counter	–	–	optional	–
Individual run and fault signals	–	optional	optional	–
Water backflow signalling device	–	•	–	–
Extension module	–	–	•	–
EPP cover	• 1)	–	–	–
Overflow signalling device	•	–	–	–

• = available, – = not available

¹⁾ only for AF Basic, already included in the scope of delivery for AF Comfort

Rainwater utilisation

Pump systems with system separation

Technical data Wilo-RainSystem/Rain-Collector

	Wilo-RainSystem AF Basic and Comfort	Wilo-RainSystem AF 150	Wilo-RainSystem AF 400	Wilo-Rain-Collector II RWN
Approved fluids				
Pure water without settling sediment	•	•	•	•
Rainwater	•	•	•	•
Power				
Max. volume flow [m³/h]	5	16	32	5
Max. delivery head [m]	52/42	55	55	52
Max. suction head [m]	8	8	–	8
Nominal power of the pump(s) (P ₂) [W]	550/750	550/750/1100	550/750/1100	550/750
Start-up pressure [bar]	1.5/1.2	variably adjustable above 1.0 bar		1.5
Min. switch-off pressure [bar]	2.2/4.0	variably adjustable above 1.0 bar		2.2 ¹⁾
Fluid temperature [°C]	+5 to +35	+5 to +35	+5 to +35	+5 to +35
Ambient temperature [°C]	40	40	40	40
Max. operating pressure [bar]	8	8	10	6
Mains connection 1~230 V, 50 Hz	•	•	optional	•
Mains connection 3~400 V, 50 Hz	–	optional	•	–
Replenishment reservoir [l]	11	150	400	1500
Pressure gauge [bar]	–	0–10	0–10	0 – 6
System weight [kg]	25	109	138	76
Motor				
Protection class	IP 54/IP 42	IP 41	IP 54	IP 54
Insulation class	F	F	F	F
Connections				
Pressure pipe/pressure side	Rp 1	Manifold R 1 1/2	Manifold R 1 1/2	Hose 1"
Inlet connection	–	–	–	HT 100 (DN 50 for AU version)
Suction side	R 1/G 1	2 x G 1 1/4	–	–
Inlets	R 3/4	R 1 1/4 ²⁾	³⁾	HT 100
Connection overflow [DN]	70	100	100 ⁴⁾	2 x HT 100
Expansion ports	–	–	–	2 x HT 100

• = available, – = not available

¹⁾ and less than 0.6 l/min volume flow

²⁾ Potable water replenishment via float valve with free outlet in accordance with EN 1717

³⁾ Potable water replenishment via free inlet in accordance with EN 1717 (make-up funnel and non-turbulent supply line integrated on the tank side).

Rainwater storage pump connection: Connecting piece d.50 (inlet integrated with non-turbulent supply line on the tank side)

⁴⁾ with overflow siphon as anti-siphon trap and full passage in accordance with DIN 1986

Technical data Wilo-RainSystem/Rain-Collector

	Wilo-RainSystem AF Basic and Comfort	Wilo-RainSystem AF 150	Wilo-RainSystem AF 400	Wilo-Rain-Collector II RWN
Materials				
Pump housing	1.4301	1.4301	1.4301	1.4301
Impeller	Noryl	Noryl	Noryl	Noryl
Shaft	1.4028	1.4028	1.4028	1.4028
Mechanical seal	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic	Carbon/ceramic
Stage chambers	Noryl	Noryl	Noryl	Noryl
Diaphragm expansion tank in accordance with DIN 4807	–	8 l	8 l	–

• = available, – = not available

¹⁾ and less than 0.6 l/min volume flow

²⁾ Potable water replenishment via float valve with free outlet in accordance with EN 1717

³⁾ Potable water replenishment via free inlet in accordance with EN 1717 (make-up funnel and non-turbulent supply line integrated on the tank side).

Rainwater storage pump connection: Connecting piece d.50 (inlet integrated with non-turbulent supply line on the tank side)

⁴⁾ with overflow siphon as anti-siphon trap and full passage in accordance with DIN 1986

Rainwater utilisation

Pump systems with system separation

System description Wilo-RainSystem AF Basic



Type key

e.g.: **Wilo-AF Basic MC 304 EM**

AF	Automatic rainwater utilisation and potable water replenishment system (Aqua Feed)
MC	Self-priming, horizontal, multistage centrifugal pump of the MultiCargo MC series
3	Volume flow [m ³ /h] at optimum efficiency
04	Number of stages
EM	Single-phase motor 1~230 V, 50 Hz

Application

Rainwater utilisation in single-family houses for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.

Function/design

Ready-to-plug single-pump water-supply unit as compact module for single-family houses. For the fully automatic supply with rainwater from an underground tank or a rainwater storage tank. The 11-litre replenishment reservoir offers the optimised replenishment of potable water in the consumer network when rainwater storage tanks are not full.

Automatic switchover to potable water replenishment, time-dependent water exchange in replenishment reservoir, integrated automatic shutdown in the event of dry running. Simple handling due to **RainControl Basic RCB with FluidControl**.

The system fulfils the criteria outlined in DIN 1989 and EN 1717.

Options

- Overflow signalling device
- Cover made of EPP

Scope of delivery

Module ready for connection in compact design. Complete electrical and hydraulic connections and installed on a base frame. Consists of:

- Self-priming, corrosion-free, low-noise centrifugal pump of the MultiCargo MC series
- Pressure-side pipework R 1
- Potable water replenishment reservoir (11 l) with float valve
- RainControl Basic RCB switchgear with control electronics and flow and
- Pressure monitor, 3-way valve and float switch with 20 m cable for rainwater storage tank level monitoring
- Connection for overflow warning
- EPP-coated base frame, protected against corrosion
- 1.8 m connection cable and mains plug
- Fixation material including installation diagram, installation and operating instructions and packaging.

Planning guide

The suction line is to be installed as a constantly ascending pipe from the rainwater storage tank to the AF system.

A clearance of at least 200 mm is to be provided above the system for correction purposes. A clearance of at least 100 mm is to be provided to the left of the system in order to ensure ventilation of the pump motor.

For additional planning instructions and/or details concerning the planning of rainwater utilisation systems, see Wilo-Brain "Rainwater Technology Manual".

System description Wilo-RainSystem AF Comfort



Type key

e.g.: **Wilo-AF Comfort MC 304 EM**

- AF** Automatic rainwater utilisation and potable water replenishment system (Aqua Feed)
- MC** Self-priming, horizontal, multistage centrifugal pump of the MultiCargo MC series
- 3** Volume flow [m³/h] at optimum efficiency
- 04** Number of stages
- EM** Single-phase motor 1~230 V, 50 Hz

Application

Rainwater utilisation in single-family houses for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.

Function/design

Ready-to-plug single-pump water-supply unit as compact module for single-family houses. For the fully automatic supply with rainwater from an underground tank or a rainwater storage tank. The 11-litre replenishment vessel offers optimised replenishment of potable water in the consumer network when rainwater storage tanks are not full.

Automatic switchover to potable water replenishment, pump operating time-dependent water exchange in the replenishment reservoir, protection against lime deposits by automatic actuation of the solenoid valve, integrated automatic shutdown in the event of dry running. Variable switch-off pressure.

Commissioning with basic parameters set at the factory (plug & play) by means of the electronic **RainControl Economy RCE** switchgear. Permanent operating data recording, energy-saving mode function, operating status log. Operation and configuration via easy-to-use, menu-guided function keys.

The system fulfils the criteria outlined in DIN 1989 and EN 1717.

Options

- Overflow signalling device

Scope of delivery

Module ready for connection, in compact design, including cover made of recyclable EPP. Complete electrical and hydraulic connections and installed on a base frame. Consists of:

- Self-priming, corrosion-free, low-noise centrifugal pump of the MultiCargo MC series
- Pressure-side pipework R 1
- Potable water replenishment reservoir (11 litres) with mechanical float valve
- Central RainControl Economy RCE switchgear with control electronics including solenoid valve and pressure transmitter, 4–20 mA, and level sensor with 20 m cable for level indication
- Connection for overflow signalling device and/or backflow warning as standard equipment
- Cover made of EPP
- EPP-coated base frame, protected against corrosion
- 3.0 m connection cable and mains plug
- Fixation material including installation diagram, installation and operating instructions and packaging.

Planning guide

The suction line is to be installed as a constantly ascending pipe from the rainwater storage tank to the AF system.

A clearance of at least 200 mm is to be provided above the system for correction purposes. A clearance of at least 100 mm is to be provided to the left of the system in order to ensure ventilation of the pump motor.

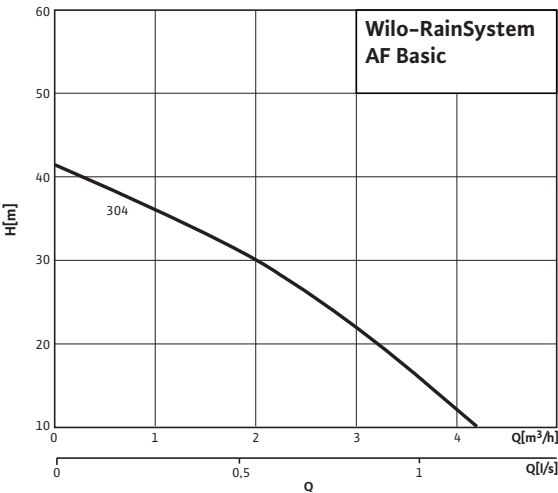
For additional planning instructions and/or details concerning the planning of rainwater utilisation systems, see Wilo-Brain "Rainwater Technology Manual".

Rainwater utilisation

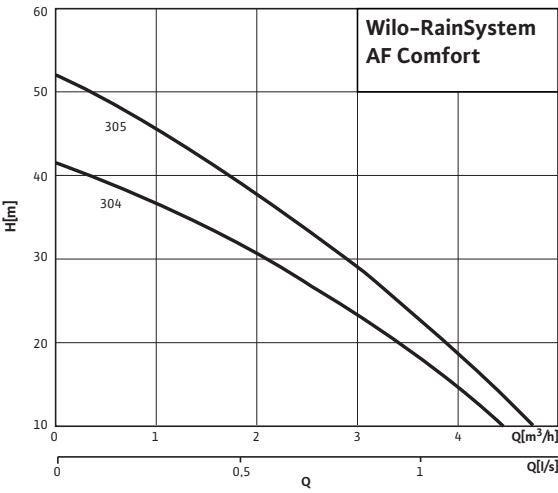
Pump systems with system separation

Pump curves, dimensions Wilo-RainSystem AF Basic and AF Comfort

Wilo-RainSystem AF Basic

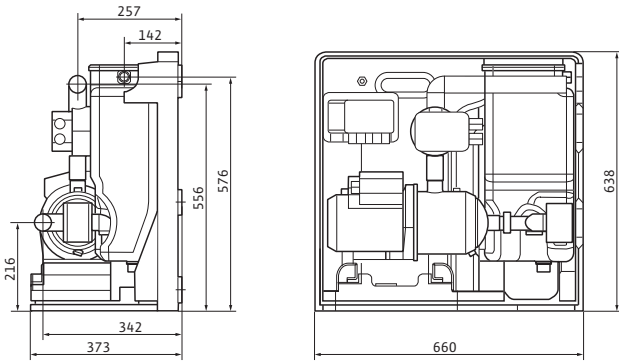


Wilo-RainSystem AF Comfort

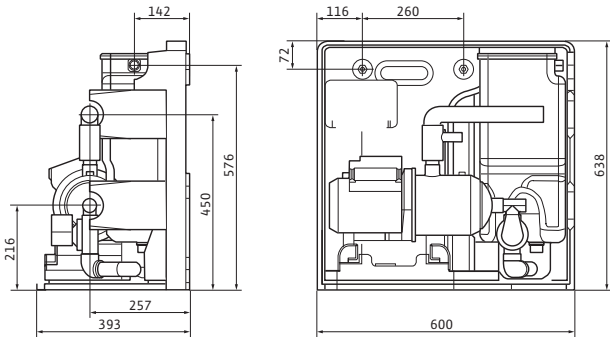


Dimension drawings

Wilo-RainSystem AF Basic



Wilo-RainSystem AF Comfort



System description Wilo-RainSystem AF 150



Type key

e.g.: **Wilo-AF 150-2 MC 305 EM**

AF	Automatic rainwater supply and fresh water replenishment system
150	Volume of the potable water replenishment reservoir [l]
2	Number of pumps
MC	Self-priming, horizontal, multistage centrifugal pump of the MultiCargo series
3	Volume flow [m³/h] at optimum efficiency
05	Number of stages
EM	Single-phase current 1~230 V, 50 Hz
RCP	Regulator: RainControl Professional

Application

Rainwater utilisation in multi-family houses and small trade businesses for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.

Function/design

Wilo-RainSystem AF 150, connection-ready double pump water-supply unit as compact module for multi-family houses and public buildings.

For the fully automatic supply with rainwater from an underground tank or rainwater storage tank. High operational reliability due to two separately guided suction lines (to be observed onsite). The large-volume, DVGW-certified replenishment reservoir offers the replenishment of potable water in the consumer network according to requirements when rainwater storage tanks are not full. A connection for backflow warning is provided as standard equipment.

A diaphragm pressure vessel in accordance with DIN 4807 that is flowed through provides energy savings in the event of minor leakage in the building.

Consistent system control is achieved by pump duty cycling and an integrated test run when the pumps are not running.

Automatic fault-actuated switchover and peak-load cut-in ensure the highest level of system readiness.

Potable water replenishment is performed fully automatically according to requirements. Water replacement in the replenishment reservoir according to pumping operation also takes place automatically.

The Wilo-RainSystem AF 150 is equipped with an integrated electronic motor protection, an integrated dry-running protection system for the pump unit and automatic protection against lime deposits for the solenoid valve.

A wide range of signals is displayed on the switchgear; it is also equipped with potential-free contacts for collective run signals and collective fault signals. Operation and configuration of the fully electronic **RainControl Professional** controller via easy-to-use, menu-guided function keys. Permanent indication of the rainwater storage tank level, the system pressure and the operating state via LCDs. The system is ideally suited for connection to the building control technology (GLT/DDC).

Scope of delivery

Connection-ready module in compact and appealing design that is adapted to functions. Complete electrical and hydraulic connections in place and mounted on vibration-insulated tube frames, consisting of:

- 2 x self-priming, corrosion-free and low-noise centrifugal pumps of the MultiCargo series
- R 1½ manifold on the pressure side including transmitter unit with 8 l diaphragm pressure vessel according to the flow-through principle as per DIN 4807 and shut-off device with drainage, pressure gauge 0 – 10 bar
- Ball valve on suction and pressure sides
- Large-volume fresh water replenishment reservoir (150 litre) with mechanical float valve
- Central RainControl Professional switchgear with control electronics including solenoid valves, pressure transmitter 4–20 mA and level sensor with 20 m cable for level monitoring
- Corrosion-free enamelled steel tubing framework
- Installation and operating instructions and packaging
- Options
- Operating hours counter
- Individual run and fault signals
- Water backflow signalling device

Planning guide

Attention:

Every pump is to be provided with its own suction line.

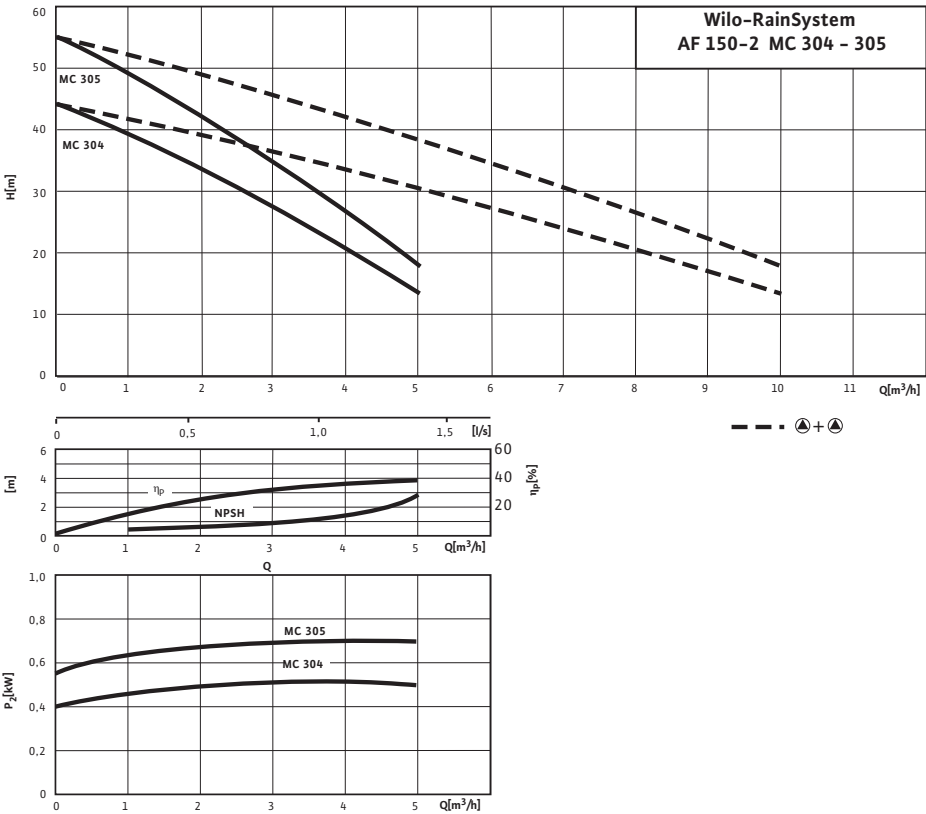
For additional planning instructions and/or details concerning the planning of rainwater utilisation systems, see Wilo-Brain "Rainwater Technology Manual".

Rainwater utilisation

Pump systems with system separation

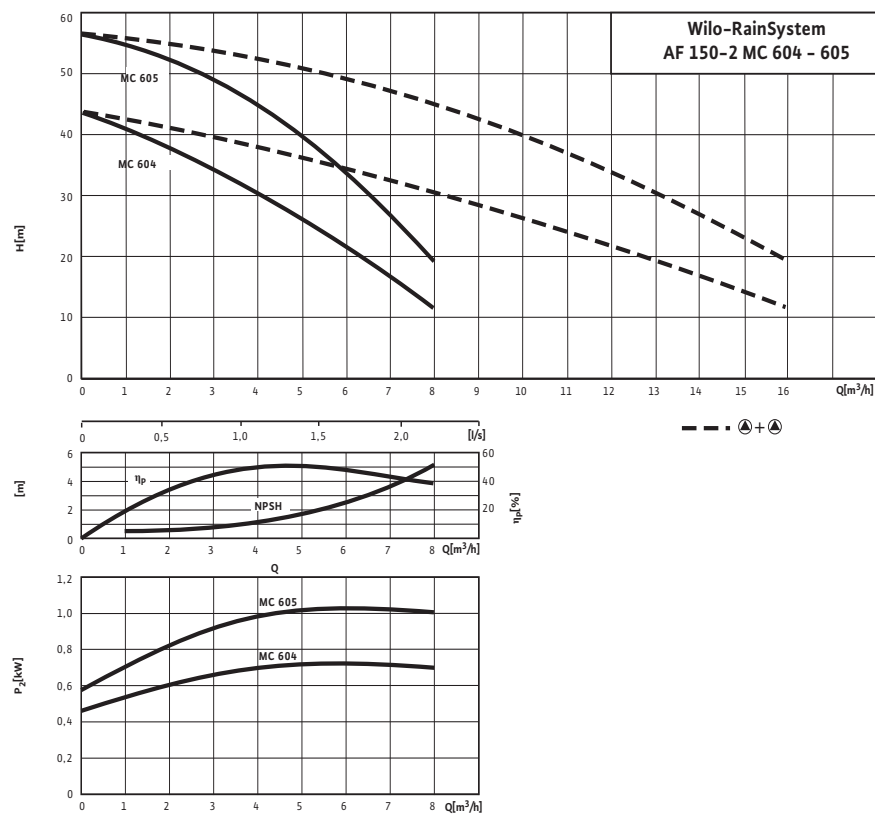
Pump curves Wilo-RainSystem AF 150

Wilo-RainSystem AF 150-2 MC 304 - 305



Pump curves, motor data Wilo-RainSystem AF 150

Wilo-RainSystem AF 150-2 MC 604 - 605



Motor data

Wilo-RainSystem AF 150-2 ...	Number of pumps	Number of stages	Nominal power P_2	Nominal current I_N
MC 304 (1~)	2	4	0.55	4.0
MC 305 (1~)	2	5	0.75	5.3
MC 604 (1~)	2	4	0.75	5.3
MC 605 (1~)	2	5	1.10	7.2

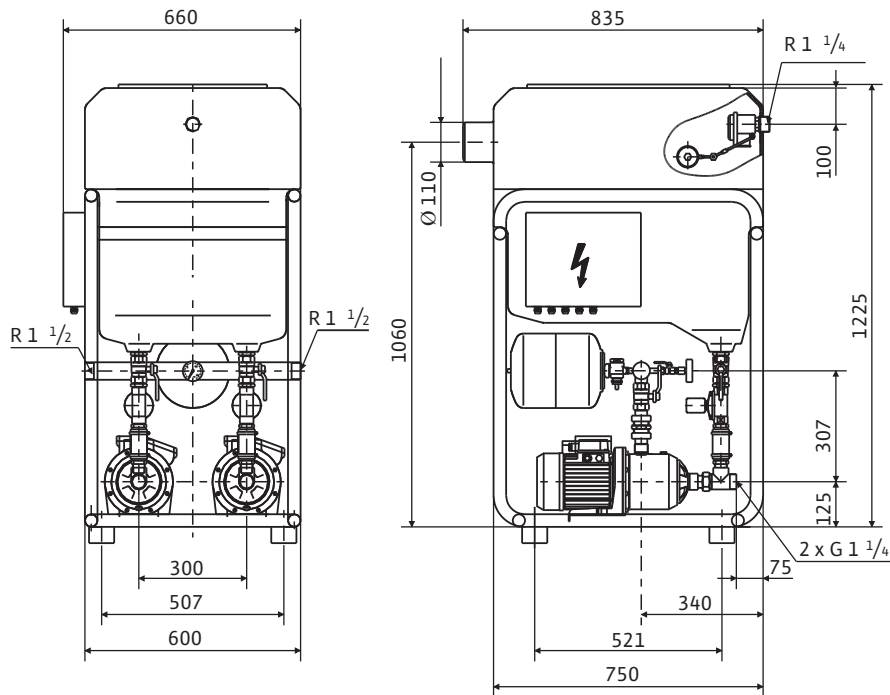
Rainwater utilisation

Pump systems with system separation

Dimensions Wilo-RainSystem AF 150 MC 604 – 605

Dimension drawing

Wilo-RainSystem AF 150 – 2 MC 604 – 605



System description Wilo-RainSystem AF 400



Type key

e.g.:	Wilo-AF 400-2 MP 605 DM/RCH 2+1
AF	Automatic rainwater supply and fresh water replenishment system
400	Volume of the hybrid tank [l]
2	Number of pumps
MP	Non-self-priming, horizontal, multistage centrifugal pump of the MultiPress series
6	Volume flow [m³/h] at optimum efficiency
05	Number of stages
DM	Three-phase current 3~400 V, 50 Hz
EM	Single-phase current 1~230 V, 50 Hz
RCH	Regulator: RainControl Hybrid
2+1	Number of water-supply pumps: 2 Number of feeding pumps: 1

Application

Hybrid system for commercial and industrial rainwater utilisation for reducing potable water consumption in conjunction with rainwater storage tanks or vessels.

Function/design

Connection-ready water supply unit with 2 to 4 water supply pumps as compact module for commercial and industrial rainwater utilisation.

For the fully automatic supply with rainwater from an underground tank or a rainwater storage tank by means of submersible pumps as feeding pumps.

Depending on the pump dimensioning, greater distances between the system and the rainwater storage tanks can also be bridged with this hybrid system (see Wilo submersible pumps series Wilo-Drain TS). The large-volume hybrid tank with all of its integrated functions offers the replenishment of potable water in the consumer network according to requirements when rainwater storage tanks are not full. The fully electronic regulator for controlling the water-supply pumps and rainwater storage pumps is equipped with a main switch, control switches for each pump with Manual-0-Automatic function and indication of the operation/fault operating states for each pump as well as low water levels. Depending on the pressure, the pumps are switched on and off in cascading fashion according to water requirements.

A diaphragm pressure vessel in accordance with DIN 4807 that is flowed through provides energy savings in the event of minor leakage in the building.

Consistent system control is achieved by pump duty cycling and an integrated test run when the pumps are not running.

Automatic fault-actuated switchover and peak-load cut-in ensure the highest level of system readiness.

The system is switched off by an integrated dry-running protection device when the water level is low.

The Wilo-RainSystem AF 400 is equipped with an integrated electronic motor protection system.

A wide range of signals is displayed on the switchgear; it is also equipped with potential-free contacts for collective run signals and collective fault signals. The system is ideally suited for connection to the building control technology (GLT/DDC).

Options

Extension modules

- Rainwater storage tank level indicator
- Operating hours counter
- Individual run and fault signals
- Time switch
- 3~230 V, 50 Hz
- 60-Hz versions

Scope of delivery

Connection-ready module in compact and appealing design that is adapted to functions. Complete electrical and hydraulic connections in place and mounted on vibration-insulated, height-adjustable tube frames, consisting of:

- 2 x non-self-priming, corrosion-free, low-noise centrifugal pumps of the MultiPress series
- R 1½ manifold on the pressure side including transmitter unit with 8 l diaphragm pressure vessel according to the flow-through principle as per DIN 4807 and shut-off device with drainage, pressure gauge 0 – 10 bar
- A suction-side and pressure-side ball valve and non-return valve
- A large-volume hybrid tank with all connections, non-turbulent supply lines and overflow with siphon
- Central RainControl Hybrid switchgear with control electronics, 4–20 mA pressure transmitter and level control in the low-voltage range
- Installation and operating instructions and packaging

Attention:

For submersible pumps which are required as feeding pumps in the rainwater storage tank, see Wilo-Drain.

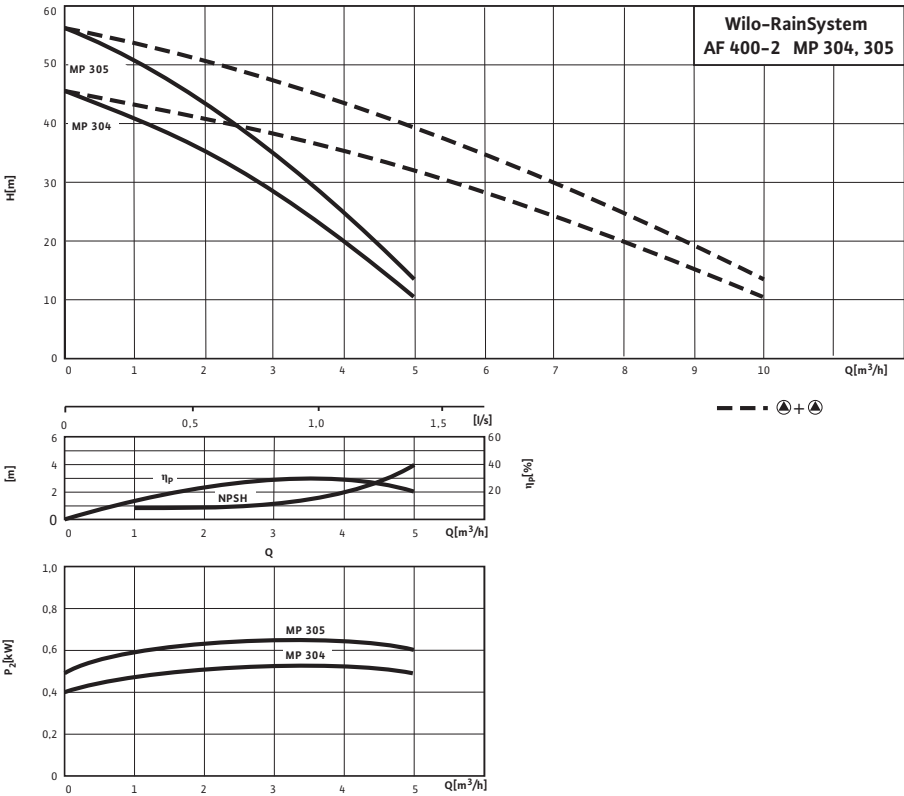
Systems with three and four pressure boosting pumps and two rainwater storage pumps on request.

Planning guide

For planning information and/or details concerning the planning of rainwater utilisation systems, see Wilo-Brain "Rainwater Technology Manual".

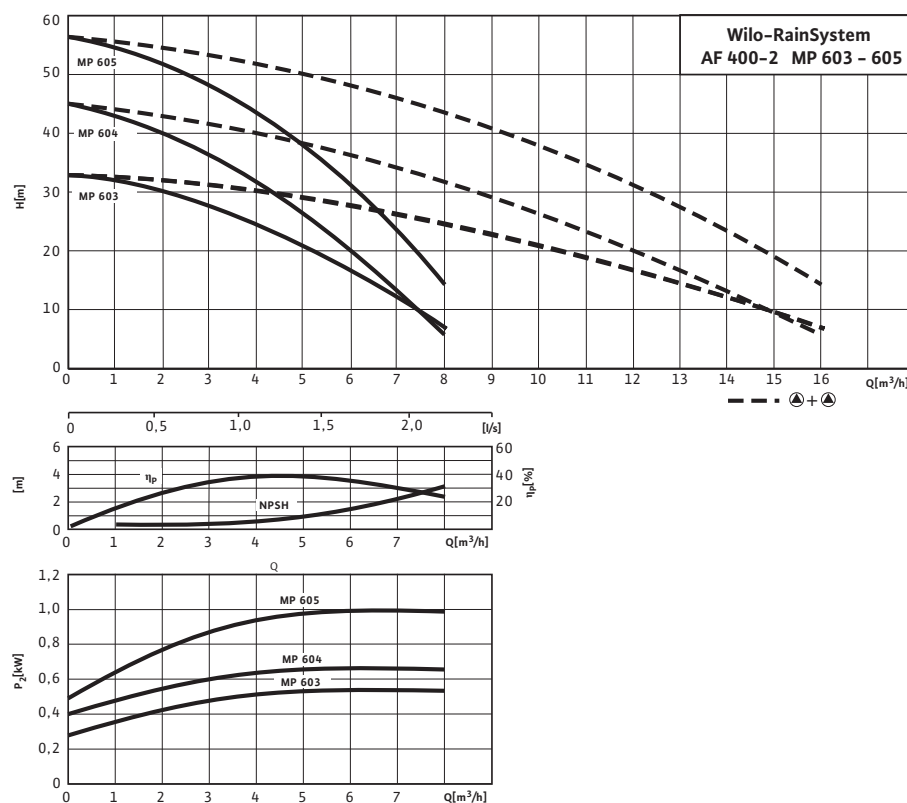
Pump curves Wilo-RainSystem AF 400

Wilo-RainSystem AF 400-2 MP 304 – 305



Pump curves, motor data Wilo-RainSystem AF 400

Wilo-RainSystem AF 400-2 MP 603 – 605



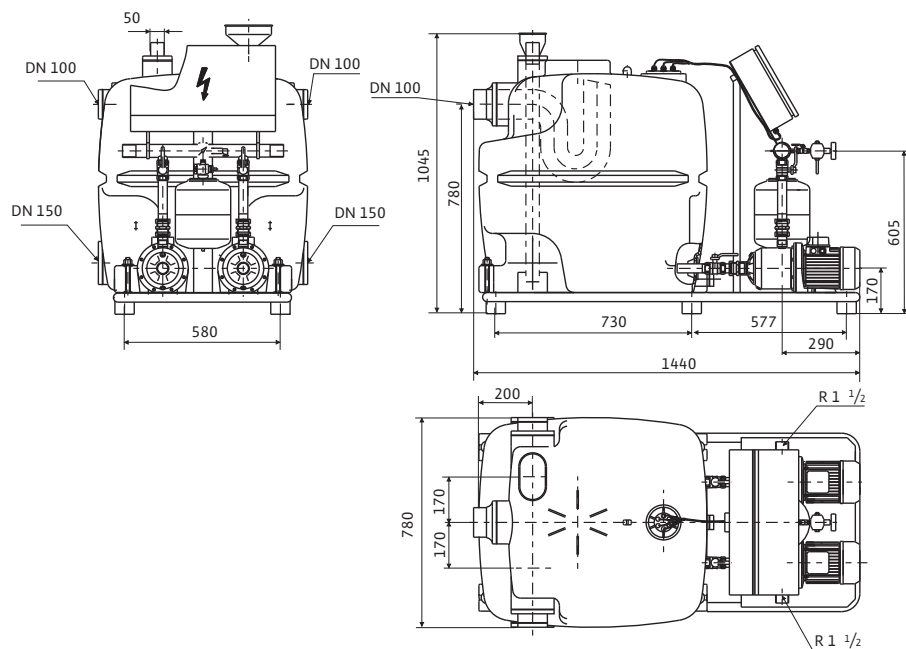
Motor data					
Wilo-RainSystem AF 400-2 ...	Number of pumps	Number of stages	Nominal power	Nominal current I _N	
			P ₂	3~230 V	3~400 V
			[kW]	[A]	
MP 304	2	4	0.55	3.3	1.9
MP 305	2	5	0.75	3.6	2.1
MP 603	2	3	0.55	3.3	1.9
MP 604	2	4	0.75	3.6	2.1
MP 605	2	5	1.10	4.9	2.8

Rainwater utilisation

Pump systems with system separation

Dimensions Wilo-RainSystem AF 400

Dimension drawing



System description Wilo- RWN 1500



Type key

e.g.: **Wilo-RWN 1500 A – MC 305 EM**

RWN	Rainwater utilisation system with patented multi-chamber storage tank
1500	Volume of the storage tank [l], standard version
A	Automatic version
AU	Automatic version for installation below the backflow level
MC	Self-priming, horizontal, multistage centrifugal pump of the MultiCargo series
3	Volume flow [m³/h] at optimum efficiency
05	Number of stages
EM	Single-phase current 1~230 V, 50 Hz

Application

Rainwater utilisation for reducing consumption of potable water, particularly suitable for retrofitting existing buildings.

Fields of application e.g.:

- Toilet flushing
- Sprinkling/irrigation
- Supplying washing machines
- Secondary cleaning purposes
- Other non-potable water applications

Function/design

The Wilo rain collector II reflects years of experience at Wilo in terms of industrially manufactured, professional compact units for rainwater utilisation. Due to the unique multi-chamber storage system (MKS system), the reduction of freshwater requirements to the minimum amount that is essential for ensuring functional capability during dry periods has been achieved. Whereas the entire storage capacity needs to be increased with conventional systems, here replenishment takes place in an MKS system chamber made for that purpose. As a result, the maximum storage capacity is retained for rainwater when rain falls. Specially coordinated materials and the use of particularly high-quality pumping technology make practically noiseless operation possible. The multi-chamber storage tanks are made of UV-stabilised, black polyethylene (PE), thus providing effective protection against the formation of algae.

The electronic control of the pump with the Wilo-FluidControl makes a diaphragm expansion tank superfluous.

In order to ensure optimum usability of the system, both in new buildings and in retrofitting projects, the dimensions of the system were selected in such a way that it would be able to be brought through any door in upright position. The inlet connection can be swivelled by 300 degrees.

The system can be extended to include any number of auxiliary tanks with volumes of 1700 litres each. This extension is also possible within a very short time, even with existing systems. The Wilo rain collector thus adjusts ideally to the changing requirements of its users.

Scope of delivery

RWN 1500:

- Self-priming centrifugal pump
- Electronic pump control with Wilo FluidControl
- Connection cable with plug
- Storage tank made of polyethylene
- Inside tank
- Make-up funnel
- Dome cover
- Protection against low water level
- Flexible connection on pressure side
- 4 transport carrying handles

RWN 1500 A:

like RWN 1500, however, additionally with

- Float switch and solenoid valve for automatic water replenishment, including cable kit and plug. Design in accordance with DIN 1989 and EN 1717.

RWN 1500 AU:

like RWN 1500 A, however additionally with

- Float valve for overflow protection when installed under backflow level

Extension kit 1500:

For increasing the storage capacity by 1700 litres. Extension kits can be retrofitted at any time. The tanks can be connected on the left or on the right. The tank is UV-stabilised, made of black polyethylene, and includes the DN 100 connection line and the required fastening accessories.

Planning guide

For planning information and/or details concerning the planning of rainwater utilisation systems, see Wilo-Brain "Rainwater Technology Manual".

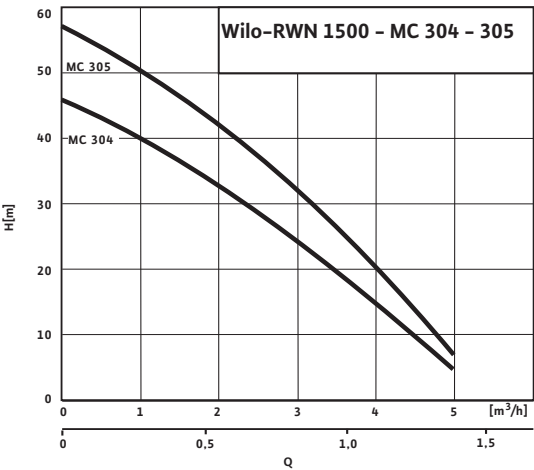
Rainwater utilisation

Pump systems with system separation

Pump curves, dimensions Wilo-RWN 1500

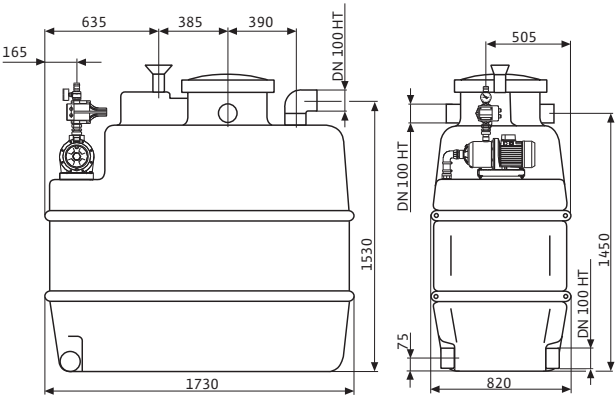
Wilo-RWN 1500-MC 304 - 305

n = 2900 1/min

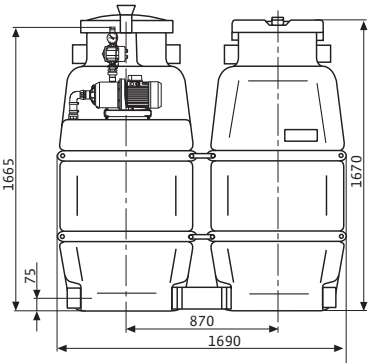


Dimension drawings

Wilo-RWN 1500-MC 304 - 305



Extension kit 1500



Accessories for Wilo filter systems

Fine rainwater filter



The fine rainwater filter is used for filtering rain and/or surface water in drain and collection pipes running horizontally. Ideal for use on roof surfaces up to 350 m².

> Versions

The Wilo fine rainwater filter is available with a nominal connection diameter of DN 125. Extension parts for easy cleaning are available in DN 400 as accessories.

> Installation

The Wilo fine rainwater filter is a filter for ground installation with a wide range of applications. The water yield amounts to nearly 100 %, even during heavy rainfall. When used in combination with a coarse filter (not illustrated), it is also suitable for pure seepage. Even subsequent installation in existing pipes is no problem, since there is no height offset between inlet and outlet. Installation is to be carried out with a gradient of approximately 2 % in the direction of flow.

> Materials

Filter housing with reinforcement ribs:	Plastic die-cast, black
Cover plate can be walked on:	Plastic die-cast, black
Coarse filter insert (not illustrated):	PE
Fine filter insert:	1.4301
Connecting sleeve:	PE

> Scope of delivery

Fine filtration zone for rainwater storage tank installation

- Fine filter with 0.5 mm or 1.0 mm mesh width

Fine filtration zone for ground installation:

- Fine filter with 0.5 mm or 1.0 mm mesh width
- Extension part
- Cover
- Sealing kit
- Coarse filter zone for ground installation:
- Coarse filter insert with 5 mm mesh width
- Plug-in connection sleeve
- Extension part
- Cover
- Sealing kit

Each with installation and operating instructions and packaging.

> Accessories

- Extension part PE – Ø 400 mm/length 750 mm, can be cut to size
- Cover can be walked on and locked
- Sludge lifter basket made of VA for coarse filter zone

> Options

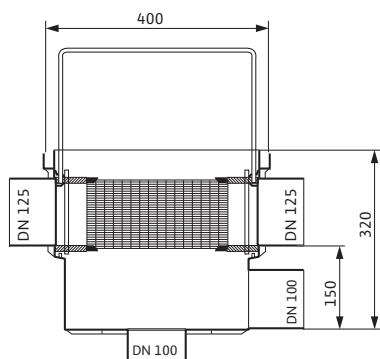
- Drainage of pure water to the underground tank vertically downwards and also lateral draining in other directions (90° steps)

Rainwater utilisation

Pump systems with system separation

Accessories for Wilo filter systems

Pipe filter



The pipe filter is used for the filtration of rain and/or surface water in drain and collection lines running horizontally. Ideal for use on roof surfaces up to 350 m².

> Materials

Filter housing with reinforcement ribs:	Plastic PE, black
Extension part:	Plastic PE, black
Correction cover:	Plastic PP, black
Split strainer insert:	1.4301

> Versions

The Wilo pipe filter is available with a nominal connection diameter of DN 125. Including extension part in DN 400 for easy cleaning with the ground installation version.

> Installation

The Wilo pipe filter is a filter with a wide variety applications for ground installation or dome sump installation in the rainwater storage tank.

The water yield amounts to nearly 100 %, even during heavy rainfall.

Even subsequent installation in existing pipes is no problem, since there is no height offset between inlet and overflow.

Installation is to be carried out with a gradient of 2 % in the direction of flow. Lateral drainage of pure water DN 100 to the underground tank. Height difference between filter inlet and tank inlet 150 mm.

> Scope of delivery

- Pipe filter housing
- For ground installation: Extension part including correction cover can be walked on and locked
- Split strainer insert mesh width 0.5 mm
- Installation and operating instructions and packaging

> Accessories

- Extension part PE – Ø 400 mm/length 750 mm, can be cut to size

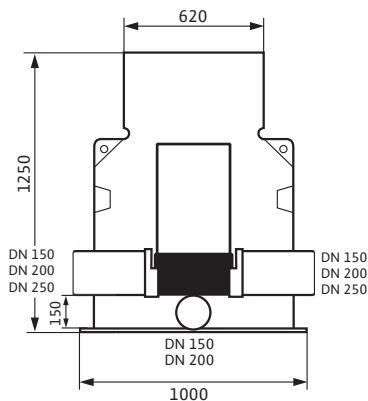
> Options

- Drainage of pure water to the underground tank vertically downwards and also lateral draining in other directions (90° steps)

Discharge of filtered water to the rainwater storage tank either laterally or downwards

Accessories for Wilo filter systems

Pipe filter sump



The pipe filter sump is used for the filtration of rain and/or surface water in drain and collection lines running horizontally. Ideal for use on roof surfaces up to 2000 m².

> Materials

Filter housing with reinforcement ribs:	Plastic PE, black
Correction cover:	Plastic PP, black
Split strainer insert:	1.4301

> Versions

The Wilo pipe filter sump is optionally available in the nominal connection widths
 DN 150 = roof surfaces up to 2500 m²
 DN 200 = roof surfaces up to 1000 m²
 DN 250 = roof surfaces up to 2000 m²
 for supply and overflow.
 Sump diameter 800/600 mm,
 H 1200 mm, can be cut to size.

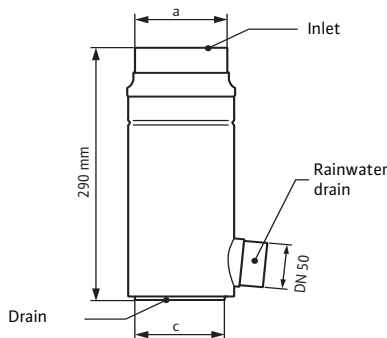
> Installation

The Wilo pipe filter sump is a filter with a wide variety of applications for ground installation. The water yield amounts to nearly 100 %, even during heavy rainfall. Even subsequent installation in existing pipes is no problem, since there is no height offset between inlet and overflow. Installation is to be carried out with a gradient of 2 % in the direction of flow. Lateral draining of pure water DN 150 or DN 200 to the underground tank. Height difference between filter inlet and tank inlet 150 mm.

> Scope of delivery

- Pipe filter sump housing
- Correction cover can be walked on and locked
- Split strainer insert mesh width 0.5 mm
- Installation and operating instructions and packaging

Filter collector



a: Dependent on downpipe version

The Wilo filter collector provides ideal fine filtration of rainwater directly in the downpipe. Can be used for roof surfaces up to 180 m².

> Materials

Filter housing:	Titanium zinc or copper
Micro-strainer and baffle system:	Stainless steel

> Versions

The Wilo filter collector is available to fit commercially available plastic, zinc or copper downpipes with nominal diameters of 110, 100, 87 and 80 mm.

> Assignment

Wilo filter collector/downpipe sizes

Nominal diameters:
 Downpipe/drain pure water

DN 110/50
 DN 100/50
 DN 87/50
 DN 100/50
 DN 87/50
 DN 80/50

Material:

Filter collector
 Titanium zinc
 Titanium zinc
 Titanium zinc
 Copper
 Copper
 Copper

Downpipe (onsite)

Plastic
 Titanium zinc 6-part
 Titanium zinc 7-part
 Copper 6-part
 Copper 7-part
 Copper 8-part

> Installation

The filter collector is characterised by its ease of installation. It is installed by simply sawing out part of the downpipe. A vertical downpipe section of at least 1 m needs to be positioned upstream of the filter collector.

> Scope of delivery

- Filter housing
- Micro-strainer/baffle system, mesh width 0.17 mm
- Housing cover
- Installation and operating instructions and packaging

Rainwater utilisation

Pump systems with system separation

Accessories for Wilo filter systems

Automatic kit for replenishment from the city water mains



Replenishment of the water from the water mains by free drainage from the pipe in the make-up funnel of the tank.

Attention: The potable water connection must not project directly into the rainwater. Maintain a minimum clearance in accordance with EN 1717.

>Scope of delivery

- WA 065 float switch including small switchgear for direct control of the solenoid valve. For cable length, see price list.
- Solenoid valve R 1/2 or R 1 with 2 m cable including shock-proof plug, electrical connection: 1~230 V, 50 Hz.

Accessories for RainSystem AF Basic, AF Comfort, AF 150

Floating coarse suction filter, G/GR



Floating coarse suction filter, mesh width 1.2 mm, for near-surface water extraction of the prefiltered rainwater (see chapter on filter systems).
Connection via suction-resistant hose connections to be provided by customer.
Version with hose connection nozzle 1 1/4".

> Materials

Floating globe:	Polyethylene
Filter:	Stainless steel

> Versions

Filter type:	Designation:
G	Coarse suction filter without non-return valve
GR	Coarse suction filter with non-return valve

Floating fine suction filter, F/FR



Like coarse filter G. However, the floating fine suction filter has a mesh width of 0.23 mm. Offers ideal protection against contamination of the downstream rainwater supply system in the presence of non-prefiltered rainwater.
Version with hose connection nozzle 1 1/4".

> Materials

Floating globe:	Polyethylene
Filter:	Stainless steel

> Versions

Filter type:	Designation:
F	Fine suction filter without non-return valve
FR	Fine suction filter with non-return valve

Suction/pressure hose 1 1/4" SE – PN 10



Suction-resistant and pressure-resistant hose, -25 °C to 55 °C, including two hose clips made of VA, as well as hose nozzles R 1 and R 1 1/4 for connection to the floating extractor.

> Versions

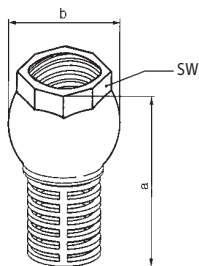
Diameter (inside):	Length:
30 mm	1.5 m complete
	3.0 m complete
	5.0 m complete
	10.0 m complete
	15.0 m complete

Rainwater utilisation

Pump systems with system separation

Accessories for RainSystem AF Basic, AF Comfort, AF 150

Foot valve



Foot valve with built-in non-return valve for the suction line to the pumping station.

> Materials

Housing: Brass
Strainer: Brass

> Versions

Size	SW	a [mm]	b [mm]	Weight [kg]
Rp 1 1/4	49	95	62	0.4
Rp 1 1/2	57	105	70	0.6
Rp 2	69	116	83	0.9
Rp 2 1/2	85	146	103	1.2

Connection set for AF Basic/AF Comfort

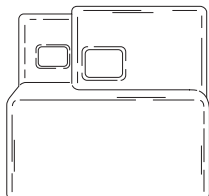


Connection set for rainwater utilisation system AF Basic/AF Comfort for flexible, vibration-insulated connection.

Potable water side: 3/4" in accordance with KTW
Process water side: 1", including check valves



Cover



Cover for AF Basic in modern, up-to-date design also serves as transport packaging for environmental reasons.

> Versions

With noise insulation, made of recyclable EPP.

Wilo Catalogue Edition 2009

Heating, air-conditioning, cooling

Circulation pumps

Glandless pumps and accessories, package heat exchanger assembly

Catalogue A1



Heating, air-conditioning, cooling

Glanded pumps

Pumps with in-line design and accessories

Catalogue A2



Heating, air-conditioning, cooling, water supply

Monobloc and norm pumps, axial split case pumps

Pumps and accessories

Catalogue A3



Water supply

Domestic water supply, rainwater utilisation

Pumps, systems and accessories

Catalogue B1



Water supply

Borehole pumps, 3" to 24"

Pumps and systems for building services, domestic, municipal and industrial water supply



Catalogue B2



Water supply

High-pressure multistage centrifugal pumps

Pumps and accessories

Catalogue B3



Water supply

Pressure boosting systems

Single-pump and multi-pump systems in dry well installations

Catalogue B4



Water supply

Sprinkler pumps with VdS approval

Borehole pumps and accessories



Catalogue B5



Drainage and sewage

Drainage pumps

Submersible pumps, self-priming pumps and accessories



Catalogue C1



Drainage and sewage

Sewage pumps, DN 32 to DN 600

Submersible pumps and accessories for building services, municipal and industrial applications



Catalogue C2



Drainage and sewage

Wastewater and sewage lifting units, pumps stations

Pump systems and accessories

Catalogue C3



Drainage and sewage

Submersible mixers

Mixers, re-circulation pumps, jet cleaners, grit collector pumps and accessories for municipal application in water treatment systems



Catalogue C4



Heating, air-conditioning, cooling

Water supply

Drainage and sewage



Pumpen Intelligenz.

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