

Data sheet WI 10TU



High efficiency water-to-water heat pump for indoor installation.

Installation location:

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9003)

Heat pump for heating purposes for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Variable connection options for the ground water and heating connections on the rear wall of the casing. Integrated solid-borne sound insulation for direct connection to the heating system. Sound-optimised through encapsulated compressor housing and free-swinging compressor baseplate. High coefficients of performance (COPs) thanks to electronic expansion valve, COP booster and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. Integrated corrosion-proof and freeze-proof stainless steel coil evaporator. Sensor monitoring of the refrigeration circuit for a high degree of operational safety and integrated thermal energy metering (display of the calculated quantity of thermal energy for heating and domestic hot water preparation on the heat pump manager). If the evaporation temperatures are too low, e.g. due to an inadequate water flow, the heat pump switches off, which means that no flow rate switch is required. For well systems with an insecure water supply, a flow rate switch available as a special accessory can also be installed. Universal design with flexible expansion options for:

- Room temperature control via Smart RTC (special accessory)
- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Integrated soft starter (from WI 14); integrated load contactor for well water pump; flow sensor, return sensor, external sensor (standard NTC-2) and dirt filter for ground water included in the scope of supply. Heat pump white textured (similar to RAL 9003).

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Technical data

Dimplex High efficiency water-to-water heat pump for indoor installation. (Medium temperature)

Heat pump code	3005
Max. flow temperature	62 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	7 Grad / 25 Grad
Sound power level	41 dB(A)
Refrigerant / Amount of refrigerant	R410A / 2,7 kg
Max. heating water flow rate / Pressure drop	1,7 m3 pro h / 5000 Pa
Heat source flow (min.)	2,2 m3 pro h
Width x Height x Depth **	650 x 845 x 665 mm
Weight	142 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current	17 A
Heat pump seal of approval (valid until)	Yes / 12.12.2020

*Heat output and coefficient of performance (COP) according to EN 14511

**Please note that additional space is required for pipe connections, operation and maintenance.

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Description	Order ref.	Article number	Sample item	Item
Heat pumps				
Elasticated sound insulation underlay strips	SYL 250	352260	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
DN 32 dirt trap	SMF 32	362140	0	
Air-to-water heat pump connection kit	VSF 32	361800	0	
Hydraulic accessories				
Built-under buffer tank	PSP 100U	378600	1	
Immersion heater 4.5 kW; ~230 V	CTHK 630	363610	0	
Immersion heater 2.0 kW; ~230 V	CTHK 631	336180	0	
Immersion heater 2.9 kW; ~400 V	CTHK 632	335910	0	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Immersion heater 7.5 kW	CTHK 635	322160	0	
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900	0	
Transitional screw connection 1 1/4" internal thread to R 1"	KUP G32	375810	0	
Connection hose 1 1/4" (32 x 5.5 mm)	AS 976-1	330530	0	
Buffer tank, wall-mounted	PSP 50E	372890	0	
Free-standing buffer tank 100 l	PSW 100	351090	0	
Free-standing buffer tank 200 l	PSW 200	339830	0	

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Description	Order ref.	Article number	Sample item	Item
Dual differential pressureless manifold	DDV 25	358390	1	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1	
Manifold bar DN 25	VTB 25-2	376360	0	
Manifold bar DN 32	VTB 25-3	376370	0	
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1	
Mixed heating circuit module with temperature sensor	MMH 25	348640	0	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-25PK	380160	1	
3-way ball valve DN 25	DWK 25	364680	0	
Mixer module for bivalent systems	MMB 25	348880	0	
DN 25 double-sphere rubber expansion joint	KOMP 25	362050	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	0	
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	0	
Immersion heater pipe assembly	HDLR 450	337450	0	
Heating accessories				
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	

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Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	0	
DHW preparation accessories				
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
FLH 25M flange heater	FLH 25M	349430	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	0	

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Description	Order ref.	Article number	Sample item	Item
Hydro Tower without regulation	HWK 332	362360	0	
Combination tank heating and domestic hot water preparation	PWS 332	348620	0	
3-way reversing valve DN 25	DWV 25	374770	1	
Actuator for 3-way reversing valves DWV 25 - 50	EMA DWV	374760	1	
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	0	
Control accessories				
Extension for an Ethernet network connection	NWPM Touch	378800	1	
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Outside temperature sensor with casing	FG 3115	336620	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	
Accessories for passive cooling				
Plate heat exchanger for SIH 20	WTE 20	358400	0	
Control accessories (cooling)				
Room climate station for temperature and humidity measurement	RKS WPM	342220	0	
Dew point monitor	TPW WPM	350970	0	
Solar thermal systems accessories				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	

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Description	Order ref.	Article number	Sample item	Item
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	0	

* Other specific accessories available / required

Important information:

The combination of the components and the quantities indicated represent a non-binding sample system, which needs to be tested and individually adapted as required. Pump dimensioning must be reviewed according to the pressure loss of the system and the minimum heating water flow rate of the heat pump.

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