

Data sheet WI 18TU

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. The integrated control panel can also be used as a wired remote control using the wall mounting set (special accessories for MS PGD). 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	3006
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	44 dB(A)
Refrigerant / Amount of refrigerant	R410A / 3,4 kg
Max. heating water flow rate / Pressure drop	2,9 m3 pro h / 16200 Pa
Heat source flow (min.)	3,3 m3 pro h
Width x Height x Depth **	650 x 845 x 665 mm
Weight	160 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current	23 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				
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-25PK	380160	1	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-32PK	380170	0	
Transitional screw connection 1 1/4" internal thread to R 1"	KUP G32	375810	0	
Hydraulic tower 300 litres	HPK 300	371600	0	
Free-standing buffer tank 200 l	PSW 200	339830	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	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 25	358390	1	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1	
High-efficiency circulating pump DN 25 with coupling relay	UPH 90-25	370410	0	
Manifold bar DN 25	VTB 25-2	376360	0	

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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	
Mixer module for bivalent systems	MMB 25	348880	0	
Electronically controlled wet-running pump, Δp -v, fixed speed and PWM signal	UPE 70-25PK	374700	1	
Electronically controlled wet-running pump, self-regulating	UPE 100-25K	374720	0	
3-way ball valve DN 25	DWK 25	364680	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				
Fan convector heating with EC fan	SRX 080EM	367500	0	
Fan convector heating with EC fan	SRX 120EM	367510	0	
Fan convector heating with EC fan	SRX 140EM	367520	0	
Fan convector heating with EC fan	SRX 180EM	367530	0	

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Description	Order ref.	Article number	Sample item	Item
DHW preparation accessories				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	0	
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	0	
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	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 (500l) with temperature sensor	WWSP 556	370080	0	
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	0	
High-efficiency circulating pump DN 32 with coupling relay	UP 75-32PK	376750	0	
3-way reversing valve DN 32	DWV 32	374780	1	
Actuator for 3-way reversing valves DWV 25 - 50	EMA DWV	374760	0	
Control accessories				
Extension for an Ethernet network connection	NWPM	356960	0	
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Remote control for WPM 2006/2007/EconPlus/R	AP PGD	356570	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				

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Description	Order ref.	Article number	Sample item	Item
Plate heat exchanger for SIH 20	WTE 20	358400	0	
Control accessories (cooling)				
Passive cooling controller	WPM Econ PK	360000	0	
Room climate station for temperature and humidity measurement	RKS WPM	342220	0	
Dew point monitor	TPW WPM	350970	0	
Room temperature controller heating/cooling	RTK 601U	355610	0	
Room temperature controller heating/cooling	RTK 602U	355620	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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