

Data sheet SI 22TU

Highly efficient brine-to-water heat pump for indoor installation.

Installation location:

Max. flow temperature: 58 °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 brine and heating connections on the back board of the casing. Integrated solid-borne sound insulation for direct connection to the heating system. Sound-optimised through insulated metal casing and double vibration-isolated compressor. High coefficients of performance (COP) with economiser and compliance with the requirements of EN 14511 for larger volume flows on the heat consumption side. 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). 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 optional domestic hot water preparation and flexible expansion possibilities for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Soft starter, load contactor for brine circulating pump, integrated flow and return sensor; external sensor (standard NTC-2) and dirt filter for brine circuit included in the scope of supply. Heat pump white textured (similar to RAL 9003). Brine package and brine circuit manifold must be ordered separately.

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Technical data

Dimplex Highly efficient brine-to-water heat pump for indoor installation. (Low temperature)

Heat pump code	4006
Max. flow temperature	58 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 Grad / 25 Grad
Sound power level	53 dB(A)
Refrigerant / Amount of refrigerant	R407C / 3,7 kg
Max. heating water flow rate / Pressure drop	4,0 m3 pro h / 31000 Pa
Heat source flow (min.)	5,5 m3 pro h
Width x Height x Depth **	650 x 845 x 665 mm
Weight	184 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	25 A

*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				
Hydraulic tower 300 litres	HPK 300	371600	1	
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140	0	
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150	0	
Transport aid for Hydro-Tower / LAW indoor unit	TH 270	370430	0	
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	
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900	0	
Free-standing buffer tank 200 l	PSW 200	339830	0	
Universal buffer tank (500 l)	PSW 500	339210	0	
Dual differential pressureless manifold	DDV 32	348450	0	
High-efficiency circulating pump DN 32 with coupling relay	UPH 90-32	370420	0	
Manifold bar DN 32	VTB 32-2	374920	0	
Manifold bar DN 32	VTB 32-3	374930	0	
Domestic hot water module/unmixed heating circuit module	WWM 32	367800	0	
Mixed heating circuit module	MMH 32	367790	0	

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Description	Order ref.	Article number	Sample item	Item
Mixer module for bivalent systems	MMB 32	367780	0	
Electronically controlled wet-running pump, self-regulating	UPE 100-32K	374730	0	
Electronically controlled wet-running pump, self-regulating	UPE 120-32K	374740	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	
DHW preparation accessories				
400l solar cylinder for heat pump	WWSP 432 SOL	361080	0	
500 l solar cylinder for heat pump	WWSP 540 SOL	361090	2	
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	1	

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Description	Order ref.	Article number	Sample item	Item
FLH 25M flange heater	FLH 25M	349430	0	
Flange heater for domestic hot water	FLH 60	338060	0	
Flange heater for domestic hot water	FLHU 70	338070	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder, 700 litres	WWSP 770	376730	0	
Pump unit DN 32 for direct connection of the domestic hot water cylinder	WPG 32	356040	0	
3-way reversing valve DN 32	DWV 32	374780	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				
Passive cooling station with cooling controller	PKS 14 Econ	362930	0	
Passive cooling station with cooling controller	PKS 25 Econ	362940	0	
Control accessories (cooling)				
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

Notes:

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The heat source accessories are designed for ground heat collectors according to the project planning documentation.

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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