

Data sheet SI 6TU



Highly efficient brine-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 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 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. 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). 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)

Flow and return sensor integrated; external sensor (standard NTC-2) in the scope of supply. Dirt trap for installation in the brine circuit (return to the heat pump) included in the scope of supply. Heat pump white textured (similar to RAL 9003). High-efficiency brine package with electronic control of the brine pump and the brine circuit manifold must be ordered separately.

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Technical data

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

Heat pump code	4010
Max. flow temperature	62 Grad
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 Grad / 25 Grad
Sound power level	46 dB(A)
Refrigerant / Amount of refrigerant	R410A / 2,5 kg
Max. heating water flow rate / Pressure drop	1,05 m3 pro h / 5300 Pa
Heat source flow (min.)	1,45 m3 pro h
Width x Height x Depth **	650 x 840 x 555 mm
Weight	119 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	28 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	
Air-to-water heat pump connection kit	VSF 25	361790	0	
DN 32 dirt trap	SMF 32	362140	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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Description	Order ref.	Article number	Sample item	Item
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	1	
Flange heater for domestic hot water	FLHU 70	338070	0	
Safety valve combination	SVK 852	326660	0	
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	0	
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	0	
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	

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Description	Order ref.	Article number	Sample item	Item
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				
Passive cooling station with cooling controller and 3-way reversing valve DN 25	PKS 14 Econ	362930	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	

* 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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