SI 6TU

Data sheet

Experience Better Living.

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

Heat pump for heating purposes for indoor installation with integrated heat pump manager WPM Econ5Plus with touch display. Heat pump white textured (similar to RAL 9003). Dirt trap for installation in the brine circuit (return to the heat pump) included in the scope of supply. Use of load-variable tariffs (SG Ready)
High-efficiency brine package with electronic control of the brine pump and the brine circuit manifold must be ordered separately. 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). Variable connection options for brine and heating connections on the back board of the casing. Distribution systems with unmixed and mixed heating circuits Bivalent or bivalent-renewable operating mode Flow and return sensor integrated, external sensor (standard NTC-2) in the scope of supply. Universal design with optional domestic hot water preparation and flexible expansion possibilities for: Integrated solid-borne sound insulation for direct connection to the heating system.



Technical Data

Order reference	SI 6TU
Heating water flow rate acc. EN 1511	1.05
Heating water flow rate pressure drop according to EN 14511	5300
Heat source flow (min.)	1.45
Nominal power consumption according to EN 14511 at B0/W35	1.3
Maximum electric power consumption	2.6
Energy efficiency class with 55 °C flow temperature	A++
Energy efficiency class with 35 °C flow temperature	A+++
Seasonal space heating energy efficiency in average climate conditions (NT)	191
Seasonal room heating energy efficiency (high temperature)	134
Dimensions (W x H x D)**	650 x 845 x 565 mm
Weight	119 kg

* Heating and cooling capacity and coefficients of performance (COP/EER) in accordance with EN 14511
** Please note that additional space is required for pipe connection, operation and maintenance.
*** The fuse protection must be designed as an all-pole disconnecting device (common disconnection of all phases)!

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SI 6TU
System accessories

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump brine monobloc indoor					
Highly efficient brine-to-water heat pump for indoor installation.	SI 6TU	364080	1		
Dual differential pressureless manifold	DDV 25	358390	1		
3-way reversing valve DN 25	DWV 25	374770	1		
Built-under buffer tank	PSP 100U	378600	1		
Brine circuit accessory package for SI 6 - 14TU	SZB 140E	362090	1		
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	1		
Accessories hydraulic					
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	1		
Dual differential pressureless manifold	DDV 25	358390	1		
3-way ball valve DN 25	DWK 25	364680	1		
Immersion heater pipe assembly	HDLR 450	337450	1		
DN 25 double-sphere rubber expansion joint	KOMP 25	362050	1		
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900	1		
Transitional screw connection 1 1/4" internal thread to R 1" GDD-01-375810	KUP G32	375810	1		
Mixer module for bivalent systems	MMB 25	348880	1		
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Built-under buffer tank	PSP 100U	378600	1		
Buffer tank, wall-mounted	PSP 50E	372890	1		
Free-standing buffer tank 100 l	PSW 100	351090	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Free-standing buffer tank 200 l	PSW 200	339830	1		
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1		
El. cont. circulating pump: Control type Δp-c, fixed speed, PWM control optional	UPE 80-25PK	380160	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560	1		
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520	1		
Manifold bar DN 25	VTB 25-2	376360	1		
Manifold bar DN 32	VTB 25-3	376370	1		
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1		
Accessories for heating					
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	1		
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	1		
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	1		
Heat pump heater vertical	WPHKV 1220053	381280	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Accessories domestic hot water					
3-way reversing valve DN 25	DWV 25	374770	1		
Hydro Tower without regulation	HWK 332	362360	1		
Design domestic hot water cylinder 250 l System M	MDHW 232	M99013	1		
Design domestic hot water cylinder 330l System M	MDHW 335	M99018	1		
Combination tank heating and domestic hot water preparation	PWS 332	348620	1		
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	1		
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030	1		
Domestic hot water cylinder 200l with temperature sensor	WWSP 229	374570	1		
Domestic hot water cylinder (300l) with temperature sensor	WWSP 335	376760	1		
Domestic hot water cylinder (400 l) with temperature sensor	WWSP 442	372840	1		
Accessories solar					
400l solar cylinder for heat pump	WWSP 432 SOL	361080	1		
Accessories controls					
Outside temperature sensor with casing	FG 3115	336620	1		
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	1		
Extension for a Modbus RTU connection	LWPM 410	339410	1		
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	1		
Extension for an Ethernet network connection	NWPM Touch	378800	1		
Smart RTC+ - intelligent room temperature control	RTM Econ A	367210	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Smart RTC+ - intelligent room temperature control	RTM Econ U	367200	1		
Accessories for cooling					
Passive cooling station with cooling controller and 3-way reversing valve DN 25	PKS 14 Econ	362930	1		
Room climate station for temperature and humidity measurement	RKS WPM	342220	1		
Dew point monitor	TPW WPM	350970	1		
Accessories heat source					
Antifreeze for the brine circuit 20 l	AFN 825	328610	1		
Brine circuit manifold connection package	AP SVT	348900	1		
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	1		
Transitional screw connection 1 1/4″ internal thread to 1″ external thread	KUP G1	366900	1		
Transitional screw connection 1 1/4″ internal thread to R 1″ GDD-01-375810	KUP G32	375810	1		
Brine circuit manifold (2-fold) with clamping ring fittings	SVT 200KV	363860	1		
Brine circuit manifold (3-fold) with clamping ring fittings	SVT 300KV	363870	1		
Brine circuit manifold (4-fold) with clamping ring fittings	SVT 400KV	363880	1		
Low-pressure brine switch	SWPR 200	359470	1		

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Description	Order-ref.	Article-number	Example Piece	Units	Price
Brine circuit accessory package for SI 6 - 14TU	SZB 140E	362090	1		

* Additional specific accessories available/required

Important notice

The combination of components and the specified quantities represent a non-binding example system that must be reviewed and, if necessary, adjusted individually.
The pumpsizing needs to be checked according to the system's pressure loss and the minimum heating water flow rate of the heat pump.

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