

SIW 8TES

Data sheet

Experience Better Living.

Compact brine-to-water heat pump for indoor installation incl. domestic hot water preparation.

Heat pump for heating purposes for indoor installation with 170 litre domestic hot water cylinder and integrated heat pump manager WPM Econ5 with touch display. Variable connection options for brine and heating connections on the back board of the casing. Sound-optimised through encapsulated compressor housing and free-swinging compressor baseplate. Removable heat pump module for easy integration of the heat pump in the building. High coefficients of performance (COP) thanks to electronic regulation of the volume flows and optimised heat transfer due to asymmetrical heat exchanger. Compact design with domestic hot water preparation and integrated components for direct connection of an unmixed heating circuit (must not be used for bivalent systems):

- Built-in pipe heater (2 / 4 / 6 kW) can be used for reheating domestic hot water up to 60 °C and as a stand-by for heating operation
- High-efficiency heat circulating pump (note the free compression) domestic hot water circulating pump
- Overflow valve for adjusting the volume flow in the heating circuit
- Use of load-variable tariffs (SG Ready)
- Integrated thermal energy meter for heating/domestic hot water
- Electronically regulated brine circulating pump (observe the free compression) and thermal energy metering for heating/domestic hot water preparation.

Soft starter, integrated flow and return sensor; external sensor (standard NTC-2) and dirt trap for brine circuit included in the scope of supply. Heat pump white textured (similar to RAL 9003). Brine circuit manifold must be ordered separately. Expansion vessel and safety module for the brine circuit and heating circuit must be ordered separately.



Technical Data

Order reference	SIW 8TES
Heating water flow rate acc. EN 1511	1.4
Heating water flow rate pressure drop according to EN 14511	10000
Heat source flow (min.)	1.5
Maximum electric power consumption	3.3
Nominal power consumption according to EN 14511 at B0/W35	1.61
Seasonal room heating energy efficiency (high temperature)	145
Seasonal space heating energy efficiency in average climate conditions (NT)	196
Energy efficiency class with 35 °C flow temperature	A+++
Energy efficiency class with 55 °C flow temperature	A++
Connection voltage	3/N/PE ~400 V, 50 Hz



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Order reference	SIW 8TES
Dimensions (W x H x D)**	590 x 2000 x 734 mm
Weight	280 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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System accessories



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Heat pump brine monobloc indoor					
Compact brine-to-water heat pump for indoor installation incl. domestic hot water preparation.	SIW 8TES	371580	1		
Brine accessory package for SIW...TES	SZB SIW	376950	1		
Accessories hydraulic					
Connection hose 1¼" (32 x 5.5 mm)	AS 976-1	330530	1		
3-way ball valve DN 25	DWK 25	364680	1		
DN 25 double-sphere rubber expansion joint	KOMP 25	362050	1		
Transitional screw connection 1 1/4" internal thread to R 1"	KUP G32	375810	1		
Mixer module for bivalent systems	MMB 25	348880	1		
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Buffer tank, wall-mounted	PSP 50E	372890	1		
Free-standing buffer tank 100 l	PSW 100	351090	1		
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		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
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		
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		
Smart RTC+ - intelligent room temperature control	RTM Econ U	367200	1		



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Description	Order-ref.	Article-number	Example Piece	Units	Price
Accessories for cooling					
EB KPV expansion module	EB KPV	348650	1		
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		
Accessories heat source					
Antifreeze for the brine circuit 20 l	AFN 825	328610	1		
Brine circuit manifold connection package	AP SVT	348900	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		
Brine accessory package for SIW...TES	SZB SIW	376950	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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