

Data sheet SIW 6TES



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

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9003)

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 (from SIW 8), 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.



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Technical data

Dimplex Compact brine-to-water heat pump for indoor installation incl. domestic hot water preparation. (Medium temperature)

Heat pump code	4027
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	42 dB(A)
Refrigerant / Amount of refrigerant	R410A / 1,2 kg
Max. heating water flow rate / Pressure drop	1,0 m3 pro h / 5500 Pa
Heat source flow (min.)	1,3 m3 pro h
Width x Height x Depth **	590 x 2000 x 734 mm
Weight	265 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	28 A
Fuse protection HP with separate infeed ***	C10A
Heat pump seal of approval (valid until)	Yes / 18.03.2024

*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	
Air-to-water heat pump connection kit	VSF 32	361800	0	
DN 32 double-sphere rubber expansion joint	KOMP 32	362060	0	
DN 32 dirt trap	SMF 32	362140	0	
Hydraulic accessories				
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	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	



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Description	Order ref.	Article number	Sample item	Item
Free-standing buffer tank 200 l	PSW 200	339830	0	
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	0	
Mixed heating circuit module with temperature sensor	MMH 25	348640	0	
High-efficiency circulating pump DN 25 with coupling relay	UP 75-25PK	376740	0	
El. cont. circulating pump: Control type Δp -c, fixed speed; PWM control optional	UPE 80-25PK	380160	0	
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	
Heating accessories				
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 165080	381210	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650100	381220	0	
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650140	381230	0	



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Description	Order ref.	Article number	Sample item	Item
Heat pump heater heating/passive cooling, depth 16.5 cm	WPHK 1650180	381240	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150100	381250	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150140	381260	0	
Heat pump heater heating/passive cooling, depth 21.5 cm	WPHK 2150180	381270	0	
Heat pump heater vertical	WPHKV 1220053	381280	0	
Control accessories				
Extension for an Ethernet network connection	NWPM Touch	378800	0	
Expansion module WPM for a KNX/EIB connection	KNX WPM	376350	0	
Extension for a Modbus RTU connection	LWPM 410	339410	0	
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600	0	
Outside temperature sensor with casing	FG 3115	336620	0	
Accessories for passive cooling				
EB KPV expansion module	EB KPV	348650	0	
Connection kit passive cooling station VS PKS - SIW	VS PKS-SIW	368270	0	
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	

* 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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