High-efficiency brine-to-water heat pump with integrated domestic hot water cylinder

Max. flow temperature: 62 °C

Heat pump for heating purposes in compact design for indoor installation with 170 litre domestic hot water cylinder and WPM Econ5 control. 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. The control panel is integrated in a design screen and can also be used as wired remote control using the wall mounting set (special accessories MS PGD). 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.
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

Dimplex High-efficiency brine-to-water heat pump with integrated domestic hot water cylinder (Medium temperature)	
Order reference	**SIW 8TES**
Heat pump code	4028
Max. flow temperature	62 °C
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 to 25 °C
Heat output B0/W35 / COP B0/W35*	7,80 kW / 4,80
Heat output B0/W45 / COP B0/W45	7,30 kW / 3,70
Nominal power consumption according to EN 14511 at B0/W35	1,61 kW
Sound power level	42 dB (A)
Refrigerant / Amount of refrigerant	R410A / 1,6 kg
Max. heating water flow rate / Pressure drop	1,4 m³/h / 10000 Pa
Heat source flow (min.)	1,5 m³/h
Dimensions (W x H x D)**	590 x 2000 x 734 mm
Weight	280 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	17 A
Fuse protection***	C16A
Connection heating	1 ¼ inch
Heat source connection	1 ¼ inch
Domestic hot water cylinder volume	170 l
Heat exchange surface	2,1 m²
Seal of approval EHPA (valid until)	Yes / 19.03.2018

*Heat output and coefficient of performance (COP) according to EN 14511
**Please note that additional space is required for pipe connections, operation and maintenance.
***Die Absicherung ist als allpolige Trennvorrichtung auszuführen (gemeinsame Abschaltung aller Phasen)!

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System accessories SIW 8TES

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
High-efficiency brine-to-water heat pump with integrated domestic hot water cylinder	SIW 8TES	371580	1		
Elasticated sound insulation underlay strips	SYL 250	352260			
DN 32 double-sphere rubber expansion joint	KOMP 32	362060			
DN 32 dirt trap	SMF 32	362140			
Heat source accessories					
Brine circuit manifold connection package	AP SVT	348900	1		
Brine circuit manifold (2-fold) with clamping ring fittings	SVT 200KV	363860			
Brine circuit manifold (3-fold) with clamping ring fittings	SVT 300KV	363870			
Brine circuit manifold (4-fold) with clamping ring fittings	SVT 400KV	363880	1		
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900			
Low-pressure brine switch	SWPR 200	359470	1		
Antifreeze for the brine circuit 20 l	AFN 825	328610	4		
Hydraulic accessories					
Free-standing buffer tank 100 l*	PSW 100	351090			
Free-standing buffer tank 200 l*	PSW 200	339830			
Transitional screw connection 1 1/4" internal thread to 1" external thread	KUP G1	366900			
Manifold bar	VTB 25	339870			
Manifold bar (3-fold) for modules DN 25 and DN 32	VTB 32	367770			
Domestic hot water module/unmixed heating circuit module	WWM 25	346600			
Mixed heating circuit module with temperature sensor	MMH 25	348640			
Mixer module for bivalent systems	MMB 25	348880			
Electronically controlled circulating pump with coupling relay	UPH 60-25	367870			
Electronically regulated wet running pump (0-10 V) with coupling relay	UPE 70-25	362790			
Electronically regulated wet running pump (0-10 V) with coupling relay	UPE 80-25	362810			
Heating accessories					
Fan convectors heating 1400 W	SRX 140M	359100			
Fan convector heating with EC fan	SRX 080EM	367500			
Fan convector heating with EC fan	SRX 120EM	367510			
Fan convector heating with EC fan	SRX 140EM	367520			
Fan convector heating with EC fan	SRX 180EM	367530			
Control accessories					
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600			
Extension for an Ethernet network connection	NWPM	356960			
Extension for a KNX/EIB connection	EWPM	356970			
MS PGD wall mounting kit	MS PGD	353810			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
Accessories for passive cooling					
Passive cooling station with cooling module*	PKS 14 Econ	362930			
Connection kit passive cooling station VS PKS - SIW	VS PKS-SIW	368270			

* 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.