

Brine-to-water heat pump with two performance levels

Max. flow temperature: 62 °C

Casing colour: White (similar to RAL 9016)

Brown-red design screen (RAL 3011)

Heat pump for heating purposes for indoor installation with integrated WPM Econ5Plus control. Variable connection options for brine and heating connections on the back board of the casing. A sound-optimised metal casing and the integrated solid-borne sound insulation with free-swinging compressor base plate make direct connection with the heating system possible. Access for service work from the front, no minimum clearance required on the sides, accessible from underneath with a lift truck. High coefficient of performance through electronic expansion valve, COP booster and electronic pump control depending on the temperature spread in the brine and generator circuit. 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, domestic hot water and swimming pool water preparation). FWO function for more efficient domestic hot water preparation with increased domestic hot water temperatures and volumes of water to be drawn through optimised tank charging. The control panel is integrated into a brown-red design screen and can also be used as wired remote control using the wall mounting set (special accessories MS PGD). Universal design with two compressors for output regulation when operating at partial load, optional domestic hot water preparation and flexible expansion options for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits
- Use of load-variable tariffs (SG Ready)

Soft starter, flow and return sensors for the brine and heating circuit integrated. Dirt trap for brine circuit, external sensor (standard NTC-2), circulating pumps for brine and heat generator circuit in the scope of supply (observe the free compression). Brine circulating pump 15 m delivery height at 18 m³/h, flange connection DN 65, installation length 340 mm; heat generator circuit pump 8 m delivery height at 14 m³/h, flange connection DN 65, installation length 340 mm.

Brine package must be ordered separately.



Technical data

Dimplex Brine-to-water heat pump with two performance levels (Medium temperature)

Order reference	SI 130TU
Casing colour	White (similar to RAL 9016)
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*	70,70 kW / 4,80
Heat output max. B0/W35 / COP B0/W35	135,90 kW / 4,60
Nominal power consumption according to EN 14511 at B0/W35	30,0 kW
Sound power level device	70 dB (A)
Refrigerant / Amount of refrigerant	R410A / 19,5 kg
Max. heating water flow rate / Pressure drop	17,9 m ³ /h / 9800 Pa
Heat source flow (min.)	27,3 m ³ /h
Dimensions (W x H x D)**	1350 x 1900 x 805 mm
Weight	824 kg
Rated voltage	3/PE ~400 V, 50 Hz
Starting current with soft starter	110 A
Fuse protection	C 100 A
Connection heating	2 ½ inch
Heat source connection	3 inch

*A water-to-water heat pump must be used if borehole heat exchangers are used which work using water as the heat transfer medium.

**Please note that additional space is required for pipe connections, operation and maintenance.

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Brine-to-water heat pump with two performance levels	SI 130TU	369960	1		
Elasticated sound insulation underlay strips	SYL 250	352260			
DN 65 dirt trap	SMF 65	362170			
Connecting flange for heating and brine circuits	AF 65	351920			
Connecting flange for heating and brine circuits	AF 80	351930			
Heat source accessories					
Antifreeze for the brine circuit 200 l	AFN 824	324610	4		
Antifreeze for the brine circuit 20 l	AFN 825	328610			
Plate heat exchanger for SI 130	WTE 130	358470			
Titanium plate heat exchanger for SI 100	WTT 100	358510			
Hydraulic accessories					
Free-standing buffer tank 1000 l	PSW 1000	361640	1		
Immersion heater 4.5 kW; ~230 V	CTHK 630	363610			
Immersion heater 2.0 kW; ~230 V	CTHK 631	336180			
Immersion heater 2.9 kW; ~400 V	CTHK 632	335910			
Immersion heater 4.5 kW; ~400 V	CTHK 633	322140			
Immersion heater 6.0 kW; ~400 V	CTHK 634	322150			
Immersion heater 7.5 kW; ~400 V	CTHK 635	322160			
Immersion heater 9.0 kW; ~400 V	CTHK 636	322170			
Heating accessories					
Fan convectors heating 800 W	SRX 080M	359080			
Fan convectors heating 1200 W	SRX 120M	359090			
Fan convectors heating 1400 W	SRX 140M	359100			
Fan convectors heating 1800 W	SRX 180M	359110			
DHW preparation accessories					
Domestic hot water cylinder (500l) with temperature sensor	WWSP 556	370080	3		
FLH 25M flange heater	FLH 25M	349430			
Flange heater for domestic hot water	FLH 60	338060			
Flange heater for domestic hot water	FLHU 70	338070	3		
Flange heater for domestic hot water	FLH 90	366130			
Safety valve combination	SVK 852	326660			
Fresh water station FWS 27	FWS 27	367310			
FWS WT fresh water station	FWS WT	368100			
Control accessories					
Extension for an Ethernet network connection	NWPM	356960			
Extension for a KNX/EIB bus connection	EWPM	356970			
Extension for a Modbus connection	LWPM 410	339410			
MS PGD wall mounting kit	MS PGD	353810			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
Outside temperature sensor with casing	FG 3115	336620			
Temperature sensor NTC-10 with metal sleeve	NTC-10M	363600			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Accessories for passive cooling					
Plate heat exchanger, copper-soldered	WTU 75	362380			
Plate heat exchanger, copper-soldered	WTU 130	362400			
Plate heat exchanger, copper-soldered	WTU 100	362390			
Plate heat exchanger for SI 75	WTE 75	358450			
Plate heat exchanger for SI 100	WTE 100	358460			
Plate heat exchanger for SI 130	WTE 130	358470			
Control accessories (cooling)					
Passive cooling controller*	WPM Econ PK	360000			
Room climate station for temperature and humidity measurement	RKS WPM	342220			
Room temperature controller heating/cooling*	RTK 601U	355610			
Room temperature controller heating/cooling	RTK 602U	355620			
Dew point monitor*	TPW WPM	350970			

* 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.