

## Reversible brine-to-water heat pump

Max. flow temperature: 58 °C  
 Casing colour: White (similar to RAL 9003)  
 Brown-red design screen (RAL 3011)

Heat pump for heating and cooling for indoor installation with integrated WPM 2007 R controller. 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). Variable connection options for brine and heating connections on the back board of the casing. Sound-optimised through insulated metal casing and double vibration-isolated compressor. Universal design with flexible expansion options for:

- Bivalent operation (bivalent-renewable not possible)
- Combined distribution systems for heating and cooling
- Unmixed and mixed heating and cooling circuits

Silent cooling via panel heating/cooling systems requires the use of the room climate station (special accessory) to regulate the flow temperature on the basis of the air temperature and humidity of a reference room. Soft starter, load contactor for brine circulating pump, integrated flow and return sensor; external sensor (standard NTC-2) and dirt filter for brine circuit included in the scope of supply.

**Brine package and brine circuit manifold must be ordered separately.**



### Technical data

#### Dimplex Reversible brine-to-water heat pump (Low temperature)

Order reference	SI 11MER
Casing colour	White (similar to RAL 9003)
Max. flow temperature	58 °C
Flow temperature cooling max.	20 °C
Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 to 25 °C
Lower operating limit heat source (cooling operation) / Upper operating limit heat source (cooling operation)	5 to 25 °C
Heat output 1 compressor at B5/W35 / COP at B0/W35*	11,4 kW / 4
Heat output with 1 compressor / COP at B0/W45	10,8 kW / 3
Cooling capacity 1 compressor / COP B10/W7	11,4 kW / 5,5
Cooling capacity 1 compressor / COP B20/W18	13,9 kW / 5,2
Nominal power consumption according to EN 14511 at B0/W35	2,85 kW
Sound power level device	56 dB (A)
Refrigerant / Amount of refrigerant	R407C / 2 kg
Max. heating water flow rate / Pressure drop	2 m³/h / 16000 Pa
Heat source flow (min.)	3 m³/h
Dimensions (W x H x D)**	650 x 805 x 462 mm
Weight	128 kg
Connection voltage	1/N/PE ~230 V, 50 Hz
Starting current with soft starter	38 A
Fuse protection	C 25 A
Connection heating	1 ¼ inch
Heat source connection	1 ¼ inch

\*Heat output and coefficient of performance (COP) according to EN 14511 at B0/W35 (B0 = brine inlet temp. 0 °C, W35 = heating water outlet temp. +35 °C)

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

Description	Order ref.	Article number	Sample item	Item	Price
<b>Heat pumps</b>					
Reversible brine-to-water heat pump	SI 11MER	353100	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			
<b>Heat source accessories</b>					
Brine circuit manifold connection package	AP SVT	348900	1		
Brine circuit manifold connection package	AP SVT16	356060			
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			
Brine circuit antifreeze (20 l)	AFN 825	328610	4		
<b>Hydraulic accessories</b>					
Built-under buffer tank	PSP 100E	353360	1		
Immersion heater 4.5 kW; ~230 V	CTHK 630	363610			
Immersion heater 2.0 kW; ~230 V	CTHK 631	336180			
Free-standing buffer tank 100 l*	PSW 100	351090			
Free-standing buffer tank 200 l*	PSW 200	339830			
Universal buffer tank (500 l)*	PSW 500	339210			
Compact manifold with overflow valve	KPV 25	346590	1		
EB KPV expansion module	EB KPV	348650	1		
Dual differential pressureless manifold	DDV 25	358390			
Circulating pump for heating water	UP 60	340300	1		
Circulating pump for heating water	UP 80	340310			
Mixed heating circuit module with temperature sensor	MMH 25	348640	1		
Manifold bar	VTB 25	339870			
Domestic hot water module/unmixed heating circuit module	WWM 25	346600			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-50	362520			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-100	362530			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-150	362540			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-200	362550			
Ready-for-use DN 32 stainless steel Wellflex pipe	VSE 32-300	362560			
<b>Heating accessories</b>					
Fan convectors heating 800 W	SRX 080M	359080			
Fan convectors heating 1200 W	SRX 120M	359090			
Fan convectors heating 1400 W	SRX 140M	359100			
<b>DHW preparation accessories</b>					
Domestic hot water cylinder (300 l) with temperature sensor	WWSP 332	346610	1		
FLH 25M flange heater	FLH 25M	349430	1		
Safety valve combination	SVK 852	326660			
Domestic hot water cylinder (400 l) with temperature sensor*	WWSP 880	337880			
Design domestic hot water cylinder with sheet metal coverings and temperature sensor*	WWSP 442E	353370			
Manifold bar	VTB 25	339870	1		
Domestic hot water module/unmixed heating circuit module	WWM 25	346600	1		
Pump unit DN 25 for direct connection of the domestic hot water cylinder	WPG 25	356030			
Circulating pump for heating water	UP 60	340300	1		
<b>Control accessories</b>					
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			
Swimming pool/remote fault indicator relay module	RBG WPM	339700			
MS PGD wall mounting kit	MS PGD	353810			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
External 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			
<b>Control accessories (cooling)</b>					
Room climate station for temperature and humidity measurement	RKS WPM	342220			
Room temperature controller heating/cooling*	RTK 601U	355610			

Description	Order ref.	Article number	Sample item	Item	Price
Room temperature controller heating/cooling	RTK 602U	355620			
Dew point monitor*	TPW WPM	350970			

\* Other specific accessories available / required

**Notes:**

The heat source accessories are designed for ground heat collectors according to the project planning documentation.

**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.