Reversible brine-to-water heat pump

Order reference: SI 9MER

Installation location: Indoors
Flow temperature max 58 °C
Casing, powder-coated

Heat pump for heating and cooling for indoor installation with WPM 2007 R integrated control and control panel that can be used also as wired remote control using a wall-mounting kit (special accessory). Variable connection options for brine and heating system connections on the rear wall of the casing. Sound-optimised through insulated metal casing and double vibration-isolated compressor. Option of flexible expansion for: - Bivalent operating mode - 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 control station (special accessory) to regulate the flow temperature on the basis of the air temperature and humidity of a reference room. Integrated soft starter, external sensor (standard NTC-2), dirt filter for brine circuit included in the scope of supply. Brine package and brine circuit manifold must be ordered separately.

The heat pump complies with the valid standards and safety regulations as well as the Technical Specifications for Electrical Installations (TAB) of the electrical utility companies.

Technical data SI 9MER

Dimplex Reversible brine-to-water heat pump (Low temperature)		
Order reference		**SI 9MER**
Set-up / Colour		Indoors / White (similar to RAL 9003)
Temperature operating limits for heating water / Brine		58 °C / -5 °C
Temperature operating limits for brine		-5 °C to 25 °C
Temperature operating limits for cooling		5 °C / 25 °C
Heat output / COP at B0/W50*	kW/-	8,80 / 2,80
Heat output / COP at B0/W35*	kW/-	9,30 / 4,00
Cooling capacity / COP at B+10/W8*	kW/-	9,90 / 5,60
Cooling capacity / COP at B+10/W18*	kW/-	12,40 / 6,70
Electrical nominal power consumption at B0/W35	kW	2,30
Refrigerant R407C	kg	1,25
Flow rate (heat source) at ext. pressure differential	m³/h / Pa	2.3 / 25000
Heating water flow rate with an int. pressure differential of	m³/h / Pa	0.75 / 2300
Dimensions (W x D x H)**	mm	650 x 462 x 805
Weight (incl. packing)	kg	124
Control voltage	V	230
Supply voltage		1/N/PE~230V, 50Hz
Starting current with soft starter	A	38
Fuse	A	20
Device connections for heating		1 1/4"
Device connections for heat source		1 1/4"

* The specified values have the following meaning, e.g. B0/W35: heat source temperature 0 °C, heat outlet temperature 35 °C.
** Please note that additional space is required for pipe connections, operation and maintenance.

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Reversible brine-to-water heat pump	SI 9MER	353090	1		
Elasticated sound insulation underlay strips	SYL 250	352260	1		
Heat source accessories					
Brine package for brine-to-water heat pumps	SZB 690	336690	1		
Brine circuit manifold connection package	AP SVT	348900	1		
2-way brine circuit manifold	SVT 200	348910			
3-way brine circuit manifold	SVT 300	348920			
4-way brine circuit manifold	SVT 400	348930	1		
Brine circuit low-pressure switch	SWPR 500	337500			
Brine circuit antifreeze (20 l)	AFN 825	328610	3		
Plate heat exchanger using water as heat source in case of pollution	WT 733	349010			
Hydraulic accessories					
Built-under buffer tank (100 l) for SI(K) 5-14	PSP 100E	353360	1		
2 kW immersion heater for back-up heating	CTHK 631	336180	1		
Universal buffer tank (500 l)*	PSW 500	339210			
Immersion heater pipe assembly*	HDLR 450	337450			
3 kW radiator	HCT 300	351210			
Compact manifold with overflow valve	KPV 25	346590	1		
Differential pressureless manifold extension module	EB KPV	348650	1		
Circulating pump for main heat pump circuit	UP 60	340300	1		
Circulating pump for main heat pump circuit	UP 80	340310			
Dual differential pressureless manifold*	DDV 32	348450			
Brine-to-water heat pump heating connection set	VSH BS	347790	1		
Manifold bar for connecting two heating circuits	VTB 25	339870			
Unmixed heating circuit module*	WWM 25	346600			
Mixed heating circuit with temperature sensor	MMH 25	348640	1		
Circulating pump depending on heating system pressure drop	bauseits				
Mixer module for bivalent systems	MMB 25	348880			
Fan convector for heating/cooling with integrated thermostat*	HL 11C	351730			
Fan convector for heating/cooling with integrated thermostat*	HL 16C	351740			
Fan convector for heating/cooling with integrated thermostat*	HL 26C	351760			
Fan convector for heating/cooling with integrated thermostat*	HL 36C	351760			
Fan convector for heating/cooling with external thermostat*	HL 11SK	351770			
Fan convector for heating/cooling with external thermostat*	HL 16SK	351780			
Fan convector for heating/cooling with external thermostat*	HL 26SK	351790			
Fan convector for heating/cooling with external thermostat*	HL 36SK	351800			
DHW preparation accessories					
Hot water cylinder (300 l) with temperature sensor	WWSP 332	346610	1		
Flange heater for hot water cylinder 230 V/2.5 kW	FLH 25M	349430	1		
Safety valve combination	SVK 852	326660			
Solar station for hot water	SST 25	348430			
Hot water cylinder (400 l) with temperature sensor*	WWSP 880	337880			
Hot water cylinder (500 l) with temperature sensor*	WWSP 900	339220			
Manifold bar for KPV 25 and HHM 25 connection	VTB 25	339870	1		
Hot water module	WWM 25	346600	1		
Circulating pump for main heat pump circuit	UP 60	340300	1		
Circulating pump for main heat pump circuit	UP 80	340310			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Control accessories					
Remote diagnostics hardware package	RDS	353790			
Remote diagnostics hardware package (serial)	LDS	353770			
Remote diagnostics hardware package (USB)	LDS USB	353780			
Control accessories (cooling)					
Room climate control system for temperature and humidity measurement	RKS WPM	342220	1		
Heating/cooling on/off room temperature controller*	RTK 501	343080			
Heating/cooling on-off room temperature controller in flat switch mounting frame for flush mounting*	RTK 501 U	350960			
Start-up (no discount available)					
Heat pump (heating only) start-up	IN 01 WP	341750	1		

* Other specific accessories available / required

Notes:
The heat source accessories are designed for ground heat collectors according to the project planning documentation. The free compression must be checked if the dimensions deviate or if borehole heat exchangers are used.

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.