

Brine-to-water heat pump

Order reference: SI 11ME

Max. flow temperature for heating: 58 °C

Casing colour: white

Heat pump for indoor installation with integrated regulation WPM 2007 plus. 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 rear wall of the casing. Sound-optimised through insulated metal casing and double vibration-isolated compressor. Economiser for high coefficients of performance. Universal design with optional DHW preparation and the option of flexible expansion for:

- Bivalent or bivalent-renewable operating mode
- Distribution systems with unmixed and mixed heating circuits

Integrated soft starter and load contactor for brine circulating pump, integrated flow and return flow sensors; external sensor (standard NTC-2) and dirt filter for brine circuit included in the scope of supply.



Technical data SI 11ME

Dimplex Brine-to-water heat pump (Low temperature)

Order reference	SI 11ME
Casing colour	white
Max. flow temperature for heating	58 °C
Temperature operating limits for brine	-5 °C to 25 °C
Heat output / COP at B0/W50	kW/- 10,50 / 2,60
Heat output / COP at B0/W35	kW/- 11,00 / 4,00
Electrical nominal power consumption at B0/W35	kW 2,75
Sound power level	dB (A) 56
Refrigerant R407C	kg 1,25
Flow rate (heat source) at int. pressure differential	m³/h / Pa 3,00 / 24000
Heating water flow rate with an int. pressure differential of	m³/h / Pa 1,00 / 4100
Dimensions (W x D x H)	mm 650 x 462 x 805
Weight (incl. packing)	kg 122
Connection voltage	1/N/PE ~230 V, 50 Hz
Starting current with soft starter	A 38
Fuse protection	A 25
Connection heating	1 1/4
Heat source connection	1 1/4

Heat output and COP according to EN255 (EN 14511) at B0/W35 (B0 = brine inlet temperature 0 °C, W35 = heating water 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					
Brine-to-water heat pump	SI 11ME	353040	1		
Heat source accessories					
Brine circuit manifold connection package	AP SVT	348900	1		
Brine circuit antifreeze (20l)	AFN 825	328610	4		
Brine circuit low pressure controller	SWPR 200	359470			
Hydraulic accessories					
Built-under buffer tank	PSP 100E	353360	1		
CTHK 631 immersion heater, 2.0 kW	CTHK 631	336180			
Floor-mounted buffer tank (100 l)*	PSW 100	351090			
Floor-mounted buffer tank (200l)*	PSW 200	339830			
Universal buffer tank (500 l)*	PSW 500	339210			
Compact manifold with overflow valve	KPV 25	346590	1		
EB KPV extension module	EB KPV	348650			
Circulating pump for heating water	UP 60	340300	1		
Circulating pump for heating water	UP 80	340310			
Dual differential pressureless manifold*	DDV 25	358390			
Dual differential pressureless manifold*	DDV 32	348450			
Manifold bar	VTB 25	339870			
Hot water module / unmixed heating circuit module	WWM 25	346600			
Mixed heating circuit module with temperature sensor	MMH 25	348640			
Heating accessories					
Fan convector for heating 800 W	SRX 080M	359080			
Fan convector for heating 1200 W	SRX 120M	359090			
Fan convector for heating 1400 W	SRX 140M	359100			
Fan convector for heating 1800 W	SRX 180M	359110			
Immersion heater pipe assembly*	HDLR 450	337450			
3 kW pipe heater	HCT 300	351210			
Heating and cooling accessories					
Fan convector for heating/cooling	HL 11C	351730			
Fan convector for heating/cooling	HL 16C	351740			
Fan convector for heating/cooling	HL 26C	351750			
Fan convector for heating/cooling	HL 36C	351760			
DHW preparation accessories					
Hot water cylinder (300l) with temperature sensor*	WWSP 332	346610			
Design hot water cylinder with sheet metal coverings and temperature sensor	WWSP 442E	353370	1		
FLH 25M flange heater	FLH 25M	349430	1		
Hot water cylinder (400l) with temperature sensor*	WWSP 880	337880			
Hot water cylinder (500 l) with temperature sensor*	WWSP 900	339220			
Combination tank for heating and DHW preparation*	PWS 332	348620			
Manifold bar	VTB 25	339870	1		
Hot water module / unmixed heating circuit module	WWM 25	346600	1		
Pump unit DN 25 for direct connection of the hot water cylinder	WPG 25	356030			
Circulating pump for heating water	UP 60	340300	1		
Combo tank for heating and domestic hot water preparation with central flow*	PWD 750	349100			
Control accessories					
Data bus plug-in card for heat pump manager	LWPM 410	339410			
Wall mounting set MS PGD	MS PGD	353810			
Remote control for WPM 2006/2007/EconPlus/R*	AP PGD	356570			
Swimming pool / remote fault indicator relay module	RBG WPM	339700			
External temperature sensor with casing	FG 3115	336620			
Temperature sensor NTC-10	NTC-10	353390			
Strap-on sensor	FA 550	338550			
Thermostat for heating and domestic hot water	KRRV 003	322070			
Accessories for passive cooling					
Passive cooling station with cooling controller*	PKS 14	342460			
Three-way distribution valve	DWU 25	347760			
Three-way distribution valve	DWU 40	347770			
Two-way shutoff valve	ZWU 25	348940			

Description	Order ref.	Article number	Sample item	Item	Price
Two-way shutoff valve	ZWU 32	348950			
Control accessories (cooling)					
Room climate control system 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			
Solar thermal systems accessories					
Solar collector 2 m ² Al/Cu absorber, meander 4 connections	SOLK 1204 AM	356190			
Solar station	SOLPU 1	356230			
Solar station for hot water	SST 25	348430			
Solar expansion vessel, 12l	SOLEV 12	356240			
Solar expansion vessel, 18l	SOLEV 18	356250			
Heat carrier fluid	SOLHT 20	356260			
Test set	SOLH TTK	356270			
Purging and filling station	SOL FFP	356300			

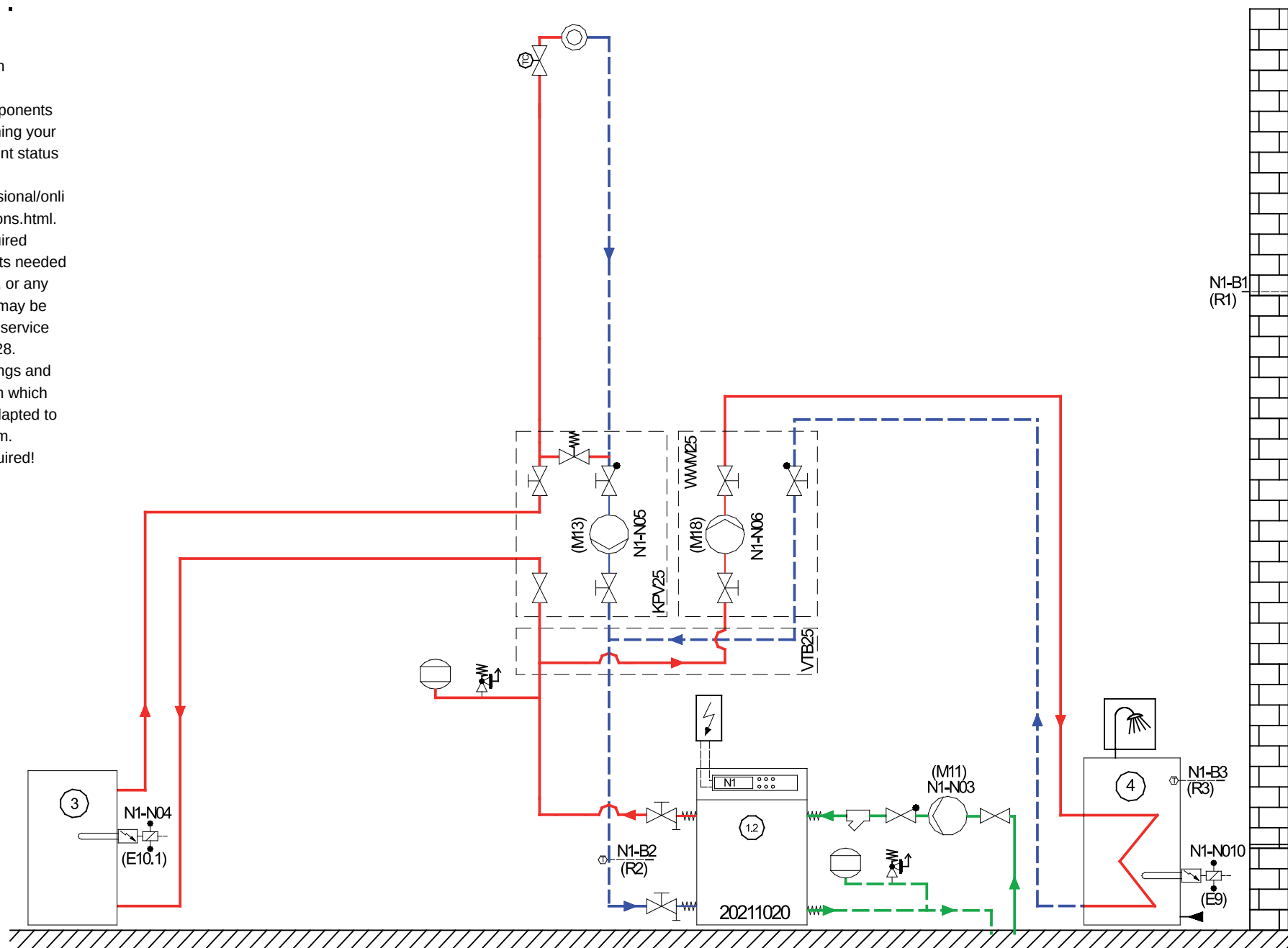
* Other specific accessories available / required

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.

Note:

The given hydraulic integration schematic is a schematic representation of the key components and serves as an aid for planning your customized system. The current status is available at all times under www.dimplex.de/nc/en/professional/online-planner/hydraulic-integrations.html. It does not contain all the required safety devices, the components needed to maintain constant pressure, or any other additional valves which may be required for maintenance and service work as stipulated by EN 12828. The heat pump manager settings and any external regulation system which may be connected must be adapted to the present integration diagram. Software updates may be required!



Legend:

- 1. Heat Pump
- 1.1 Air-to-water heat pump
- 1.2 Brine-to-water heat pump
- 1.3 Water-to-water heat pump
- 1.4 Reversible air-to-water heat pump
- 1.5 Reversible brine-to-water heat pump
- 1.6 Reversible water-to-water heat pump
- 2. Heat pump manager
- 3. Parallel buffer tank
- 3.1 Buffer tank
- 4. Hot water cylinder
- 5. Swimming pool heat exchanger
- 6. Passive cooling station with cooling controller N6
- 7. Heating and silent or dynamic cooling
- 8. Fan convector with 4-wire connection
- 9. Cooling circuit only
- 10. Heating circuit only
- 13. Heat source
- 15. Hydraulic tower

Domestic hot water distribution system:

- DDV 32 Dual differential pressureless manifold (up to 2.5 m³/h)*
- EB KPV Extension module for compact manifold (up to 2.0 m³/h)*
- KPV 25 Compact manifold with overflow valve (up to 1.3 m³/h)*
In combination with EB KPV (up to 2.0 m³/h)*
- MMB 25 Mixer module, bivalent (up to 2.0 m³/h)*
- MMH 25 Mixer module for heating circuit
- SST 25 Solar station for hot water
- VTB 25 Manifold bar (up to 2.5 m³/h)*
- WWM 25 Hot water module / unmixed heating circuit (up to 2.5 m³/h)*

* Recommended max. heating waterflow

Solarthermics:

- SOLK 1204 Collector field
- SOLPU 1 Solar station
- SOLCU 1 Solar controller
- SOLCU 2 Solar controller
- T1 Temperature sensor (collector sensor)
- T2 Temperature sensor (cylinder 1)
- T3 Temperature sensor (cylinder 2 / optional display function)

- B3 Hot water thermostat
- B4 Swimming pool thermostat
- E9 Flange heater, hot water
- E10 2nd heat generator (HG2)
- E10.1 Immersion heater
- E10.2 Oil/gas boiler
- E10.3 Solid fuel boiler
- E10.5 Solar energy system
- F7 Safety temperature monitor
- K20 Contactor for 2nd heat generator
- K21 Contactor for immersion heater hot water
- M11 Primary pump for heating operation
- M12 Primary pump for cooling operation
- M13 Heat circulating pump for main circuit
- M14 Heat circulating pump for heating circuit 1
- M15 Heat circulating pump for heating circuit 2
- M16 Auxiliary circulating pump
- M17 Cooling circulating pump
- M18 Hot water circulating pump
- M19 Swimming pool water circulating pump
- MA Mixer open
- MZ Mixer closed
- M21/M22 Mixer
- N1 Heating controller
- N2 Cooling controller for reversible heat pumps
- N3/N4 Room climate control stations
- N6 Cooling controller for passive cooling
- N12 Solar controller
- R1 External wall sensor
- R2 / 2.1 Return flow sensor
- R3 Hot water sensor
- R4 Return flow sensor for cooling water
- R5 Temperature sensor for heating circuit 2
- R9 Flow sensor (antifreeze)
- R11 Flow sensor for cooling water
- R13 Sensor for heating circuit 3 / bivalent-renewable
- TC Room temperature controller
- Y5 Three-way distribution valve
- Y6 Two-way valve
- Y7 Three-way mixing valve
- Y8 Three-way valve (closing time max. 10 sec.)
- Y12 External 4-way reversing valve