

Brine-to-water heat pump in a compact design

Max. flow temperature: 62 °C
Casing colour: White (similar to RAL 9003)
Brown-red design screen (RAL 3011)

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. 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). Integrated brine components enable direct connection of the heat source:

- Electronically regulated brine circulating pump (observe the free compression)
- Expansion vessel (8 l)
- Safety valve and pressure gauge

Compact design with optional domestic hot water preparation and integrated components for direct connection of an unmixed heating circuit (must not be used for bivalent systems):

- High-efficiency heat circulating pump (note the free compression)
- Overflow valve and safety module with pressure gauge
- Expansion vessel (24 l)

Thermal energy metering for heating/domestic hot water preparation, soft starter (from SIK 8 upwards), integrated flow and return sensors; external sensor (standard NTC-2), dirt filter and large-capacity breather (1½") with micro air bubble deposition for brine circuit included in the scope of supply.



Technical data

Dimplex Brine-to-water heat pump in a compact design (Medium temperature)

Order reference	SIK 8TES
Heat pump code	4031
Casing colour	White (similar to RAL 9003)
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 / 11000 Pa
Heat source flow (min.)	1,5 m³/h
Dimensions (W x H x D)**	652 x 1115 x 688 mm
Weight	144 kg
Rated voltage	3/N/PE ~400 V, 50 Hz
Starting current	18 A
Fuse protection***	C 10 A
Connection heating	1 ¼ inch
Heat source connection	1 ¼ inch
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)!

Description	Order ref.	Article number	Sample item	Item	Price
Heat pumps					
Brine-to-water heat pump in a compact design	SIK 8TES	372300	1		
Elasticated sound insulation underlay strips	SYL 250	352260			
DN 32 double-sphere rubber expansion joint	KOMP 32	362060			
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		
Antifreeze for the brine circuit 20 l	AFN 825	328610	3		
Low-pressure brine switch	SWPR 200	359470	1		
Hydraulic accessories					
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			
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			
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			
Heating connection kit	VSH KS	343110	1		
Domestic hot water expansion kit	VSW KS	343120	1		
EB KPV expansion module	EB KPV	348650			
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			
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			
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			
Immersion heater pipe assembly*	HDLR 450	337450			
3 kW pipe heater	HCT 300	351210			
Heating accessories					
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			
Fan convectors heating 1400 W	SRX 140M	359100			
DHW preparation accessories					
Domestic hot water expansion kit	VSW KS	343120	1		
Built-under domestic hot water cylinder*	WWSP 229E	353380			
Domestic hot water cylinder (400 l) with temperature sensor*	WWSP 442	372840			
Domestic hot water cylinder (300l) with temperature sensor	WWSP 332	346610	1		
Flange heater for domestic hot water	FLH 60	338060			
Flange heater for domestic hot water	FLHU 70	338070	1		
Flange heater for domestic hot water	FLH 90	366130			
FLH 25M flange heater	FLH 25M	349430			
Safety valve combination	SVK 852	326660			
Design domestic hot water cylinder with sheet metal coverings and temperature sensor*	WWSP 442E	353370			
400l solar cylinder for heat pump*	WWSP 432 SOL	361080			
Combination tank heating and domestic hot water preparation*	PWS 332	348620			
PWS 650 combination tank*	PWS 650	367660			
Pump unit DN 25 for direct connection of the domestic hot water	WPG 25	356030			

Description	Order ref.	Article number	Sample item	Item	Price
cylinder					
Electronically controlled circulating pump with coupling relay	UPH 60-25	367870	1		
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 connection	EWPM	356970			
Extension for a Modbus RTU connection	LWPM 410	339410			
Interface card for HPM for connection of Smart RTC and WPM Econ PK/PKS 14/25 Econ	RWPM	363370			
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			
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					
Passive cooling station with cooling module*	PKS 14 Econ	362930			
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

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.