

SIW 8TES

Device information	SIW 8TES
Design	
- Heat source	Brine
- Model	
- Thermal energy metering	Integrated
- Installation location	Indoors
- Performance levels	1
Operating limits	
- Max. flow temperature ⁷⁾	62 °C +/- 2
- Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-5 / 25 °C
- Antifreeze	Monoethylenglycol
- Minimum brine concentrate	25 %
- Free compression circulating pump heating (max. level)	52000 Pa
- Free compression of circulating pump for brine (max. level)	37500 Pa
Flow / sound	
- Max. heating water flow rate / Pressure drop	1,4 m³/h / 10000 Pa
- Minimum heating water flow rate / Pressure drop	0,8 m³/h / 3500 Pa
- Heat source flow (min.) / Pressure drop evaporator EN 14511	1,5 m³/h / 17500 Pa
- Sound power level	42 dB (A)
- Sound power level in accordance with EN 12012 (lowered operation)	dB (A)
- Sound pressure level in 1 m (indoors) ²⁾	30 dB (A)
Dimensions/weight and filling quantities	
- Weight	280 kg
- Thread type, heating connection / Connection heating	G / 1 ¼ inch
- Thread type, heat source connection / Heat source connection	G / 1 ¼ inch
- Refrigerant / Amount of refrigerant	R410A / 1,6 kg
- Oil type / Oil quantity	Polyolester (POE) / 1,2 l
- Water content	3,2 l
- Volume of the heat transfer medium in the device	3,4 l
Electrical connection	
- Rated voltage / Fuse protection	3/N/PE ~400 V, 50 Hz / C16A
- Control voltage / Control voltage fuse protection	1/N/PE ~230 V, 50 Hz / C 13 A
- Fuse protection HP with separate infeed / Fuse protection heat generator 2 with separate infeed	C10A / B10A
- Degree of protection	IP 21
- Initial current limiter	Yes
- Starting current	17 A
- Nominal power consumption according to EN 14511 at B0/W35 / Maximum electric power consumption ¹⁾	1,61 / 3,3 kW
- Nominal current at B0/W35 / cos phi	2,9 A / 0,8
- Power consumption of the compressor protection	W
- Power input of integrated pump	0,07 kW
- Output of electric heating element	6 kW
Additional model features	
- Water in device protected against freezing ⁴⁾	Yes

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Domestic hot water cylinders

- Material domestic hot water cylinder	Stahl emailiert nach DIN 4753
- Domestic hot water cylinder volume	170 l
- Heat exchange surface	2,1 m ²
- Downtime losses domestic hot water cylinder (5 °C cylinder temp. /20 °C room temp.)	0,69 kWh/24h
- Volume of water to be drawn domestic hot water cylinder without secondary heating ¹³⁾	213 l

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Heat output / coefficient of performance (COP) according to EN 14511:1)

Heizen 1 Verdichter	W35	W45	W55
B-5	6.75 kW / 4.19	6.4 kW / 3.3	6.16 kW / 2.53
B0	7.8 kW / 4.8	7.3 kW / 3.7	7.1 kW / 2.9
B5	8.86 kW / 5.64	8.35 kW / 4.24	8.03 kW / 3.28
B25			

Note:

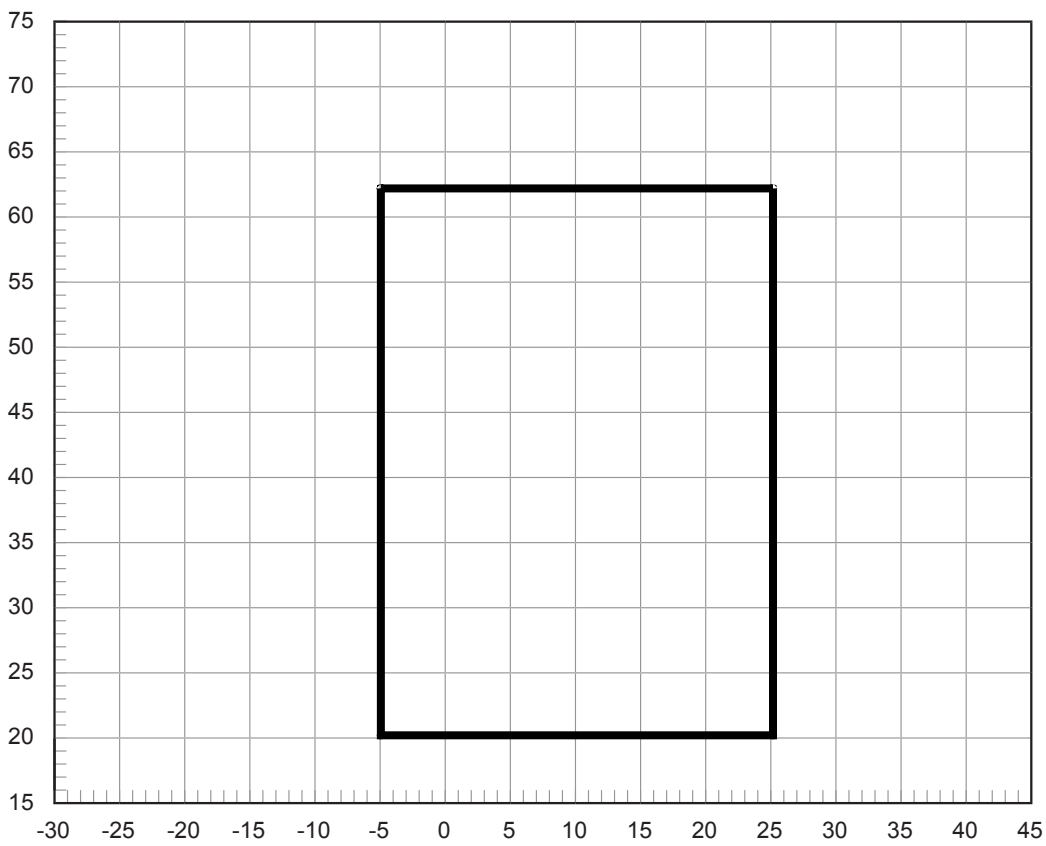
- 1) This data indicates the size and capacity of the system according to EN 14511. For an analysis of the economic and energy efficiency of the system, the bivalence point and regulation should be taken into consideration. These specifications can only be achieved with clean heat exchangers. Information on maintenance, commissioning and operation can be found in the respective sections of the installation and operating instructions. The specified values have the following meaning, e.g. A7 / W35: Heat source temperature 7 °C and heating water flow temperature 35 °C.
- 2) The specified sound pressure level corresponds to the operating noise of the heat pump in heating operation with a flow temperature of 35°C. The specified sound pressure level represents the free sound area level. The measured value can deviate by up to 16 dB(A), depending on the installation location.
- 4) The heat circulating pump and the heat pump manager must always be ready for operation.
- 7) Depending on the heat pump type and refrigerant used, the maximum flow temperatures in heating operation may be reduced when the outside temperature falls. Further information can be found in the operating limit diagram for the heat pump. If the supporting feet are used, the level can increase by up to 3 dB (A).
- 13) Mixed water temperature 38 °C and cylinder temperature 45 °C.

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Heating water temperature [°C]



Heat source inlet temperature [°C]

Note:
The maximum possible flow temperature and the operating limits vary by +/- 2K due to component tolerances.
The minimum volume flow specified in the device information must be ensured at the lower operating limit.
In mono energy operating mode with the heating element activated, the maximum flow temperature increases by approximately 3K.

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