

Device information		SI 35TU
<b>Design</b>		
- Heat source		Brine
- Model		Universal design
- Regulation		WPM Econ5Plus integrated
- Thermal energy metering		Integrated
- Installation location		Indoors
- Performance levels		2
<b>Operating limits</b>		
- 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)		50000 Pa
- Free compression of circulating pump for brine (max. level)		64000 Pa
<b>Flow / sound</b>		
- Max. heating water flow rate / Pressure drop		6,1 m³/h / 10600 Pa
- Minimum heating water flow rate		3,5 m³/h
- Heat source flow (min.) / Pressure drop evaporator EN 14511		6,4 m³/h / 12300 Pa
- Sound power level device		58 dB (A)
- Sound pressure level in 1 m (indoors) 2)		42 dB (A)
<b>Dimensions/weight and filling quantities</b>		
- Dimensions (W x H x D) 3)		1000 x 885 x 810 mm
- Weight		315 kg
- Thread type, heating connection / Connection heating		G / 1 ½ inch
- Thread type, heat source connection / Heat source connection		G / 1 ½ inch
- Refrigerant / Amount of refrigerant		R410A / 10,9 kg
- Oil type / Oil quantity		Polyester (POE) / 4,2 l
- Contains heat transfer medium		9 l
<b>Electrical connection</b>		
- Rated voltage / Fuse protection		3/PE ~400 V, 50 Hz / C 32 A
- Control voltage / Control voltage fuse protection		1/N/PE ~230 V, 50 Hz / C13A
- Fuse protection HP with separate infeed		C32A
- Degree of protection		IP 21
- Initial current limiter		
- Starting current with soft starter		28 A
- Nominal power consumption according to EN 14511 at B0/W35 / Maximum electric power consumption 1)		7,25 / 14,5 kW
- Nominal current at B0/W35 / Nominal current cos phi		13,08 A / 0,8
- Power consumption of the compressor protection		70 W
- Power input of integrated pump		0,5 kW
<b>Complies with the European safety regulations</b>		
<b>Additional model features</b>		
- Water in device protected against freezing 4)		Yes

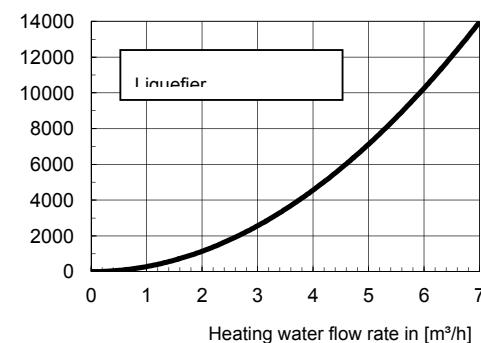
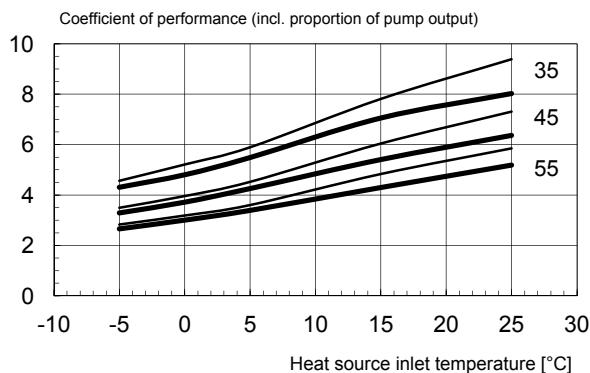
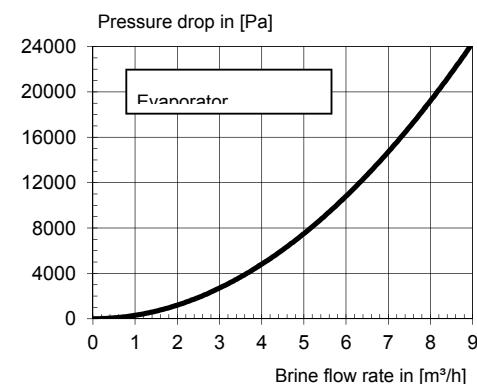
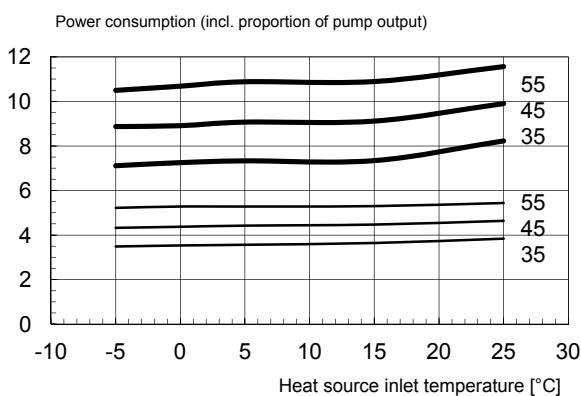
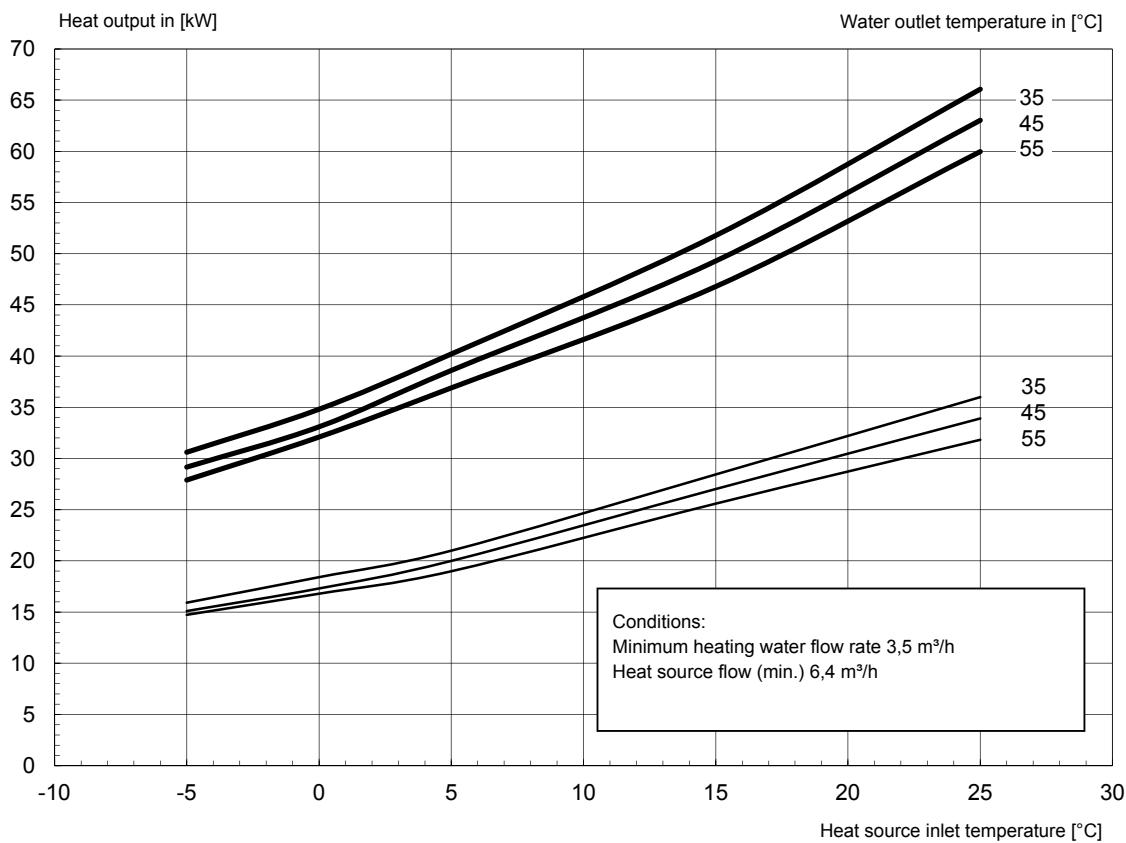
**Heat output / coefficient of performance (COP) according to EN**

14511: 1)

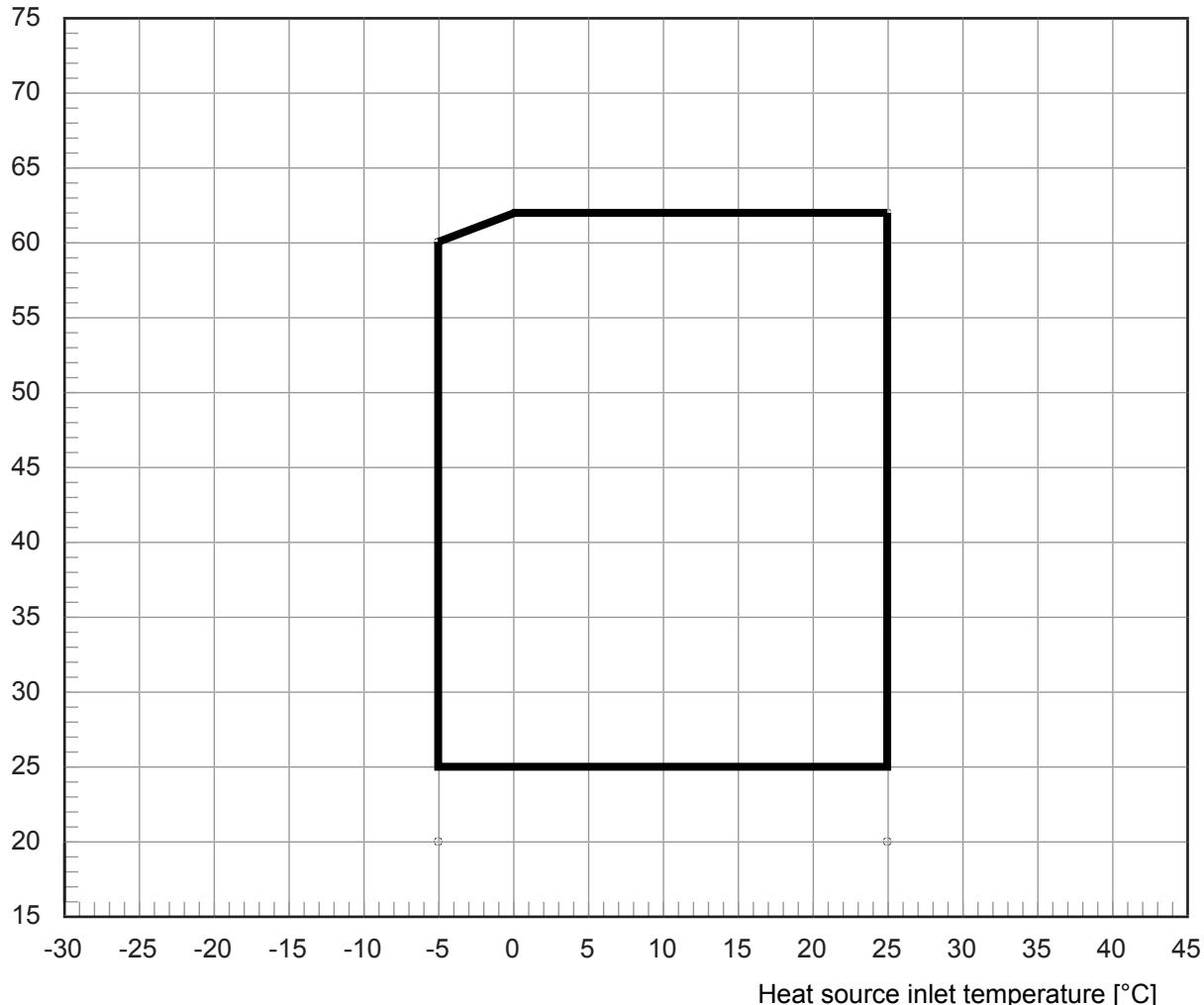
Heating compressor 1	W35	W45	W55
B-5		15,10 kW / 3,50	
B0	18,40 kW / 5,20	17,30 kW / 4,00	16,80 kW / 3,20
B10	24,70 kW / 6,90	23,50 kW / 5,30	
Heating compressor 2	W35	W45	W55
B-5		29,20 kW / 3,30	
B0	34,80 kW / 4,80	33,10 kW / 3,70	32,10 kW / 3,00
B10	46,00 kW / 6,30	43,90 kW / 4,80	41,80 kW / 3,80

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



Heating water 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.