

LIK 12TU

| Device information | LIK 12TU |
|---|------------------------------------|
| Design | |
| - Heat source | Outside air |
| - Model | Compact design |
| - Thermal energy metering | Optional (accessory) |
| - Installation location | Indoors |
| - Performance levels | 1 |
| Operating limits | |
| - Min. return temperature / Max. flow temperature ⁷⁾ | 18 / 60 °C +/- 2 |
| - Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation) | -22 / 35 °C |
| - Free compression circulating pump heating (max. level) | 39400 Pa |
| Flow / sound | |
| - Max. heating water flow rate / Pressure drop | 2,0 m ³ /h / Pa |
| - Minimum heating water flow rate / Pressure drop | 0,9 m ³ /h / Pa |
| - Heat source flow rate with external static pressure differential 0 Pa | 4400 m ³ /h / 0 Pa |
| - Heat source flow (min.) | 4100 m ³ /h / 25 Pa |
| - Sound power level | 50 dB (A) |
| - Sound pressure level in 1 m (indoors) ²⁾ | 43 dB (A) |
| Dimensions/weight and filling quantities | |
| - Weight | 310 kg |
| - Thread type, heating connection / Connection heating | G / 1 ¼ inch |
| - Air duct outlet dimensions | 552 x 355 mm |
| - Dimensions of air duct entry | 726 x 726 mm |
| - Refrigerant / Amount of refrigerant | R410A / 4,6 kg |
| - Oil type / Oil quantity | Polyolester (POE) / 1,2 l |
| - Water content | 125 l |
| - Buffer tank | Ja |
| - Buffer tank volume | 50 l |
| Electrical connection | |
| - Rated voltage / Fuse protection | 3/N/PE ~400 V, 50 Hz / C 10 A |
| - Control voltage / Control voltage fuse protection | 1/N/PE ~230 V, 50 Hz / C 13 A |
| - Degree of protection | IP 20 |
| - Initial current limiter | Yes |
| - Starting current | 19 A |
| - Rotary field monitoring | Yes |
| - Nominal power consumption A7/W35 / Maximum electric power consumption ¹⁾ | 2,4 / 4,4 kW |
| - Nominal current at A7/W35 / cos phi | 4,1 A / 0,8 |
| - Power consumption of the compressor protection / Control compressor protection | 70 W / thermostatically controlled |
| - Power consumption of the fan | 130 W |
| - Output of electric heating element | 2 kW |
| Additional model features | |
| - Type of defrosting | Reverse circulation |
| - Water in device protected against freezing ⁴⁾ | Yes |



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

| Heizen 1 Verdichter | W35 | W45 | W55 |
|---------------------|---------------|---------------|---------------|
| A-7 | 7.1 kW / 3.3 | 6.8 kW / 2.4 | 6.6 kW / 2.2 |
| A2 | 9.4 kW / 4.2 | 8.9 kW / 3.6 | 8.4 kW / 2.6 |
| A7 | 11.5 kW / 5.0 | 11.2 kW / 4.1 | 10.3 kW / 3.2 |
| A10 | 12.0 kW / 5.3 | 11.6 kW / 4.2 | 10.5 kW / 3.4 |
| A20 | | | |

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.

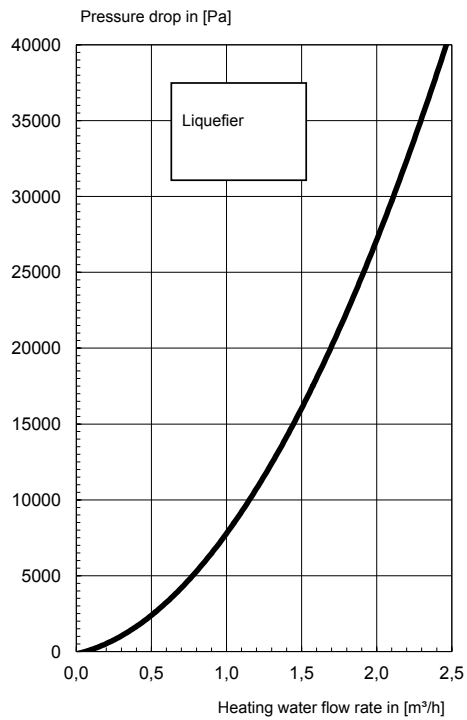
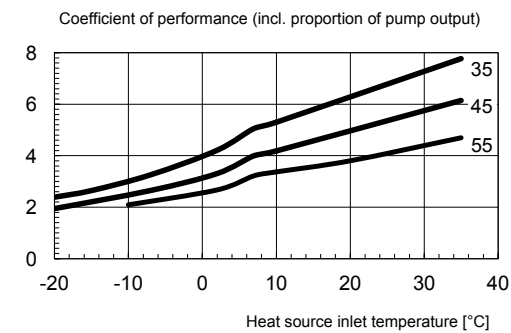
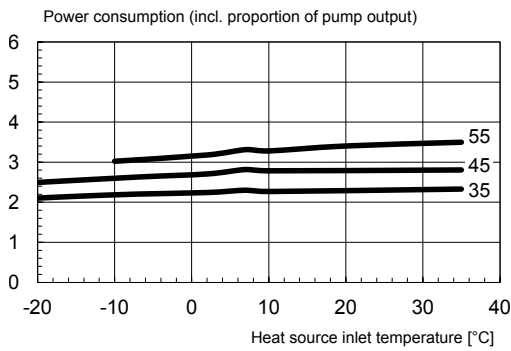
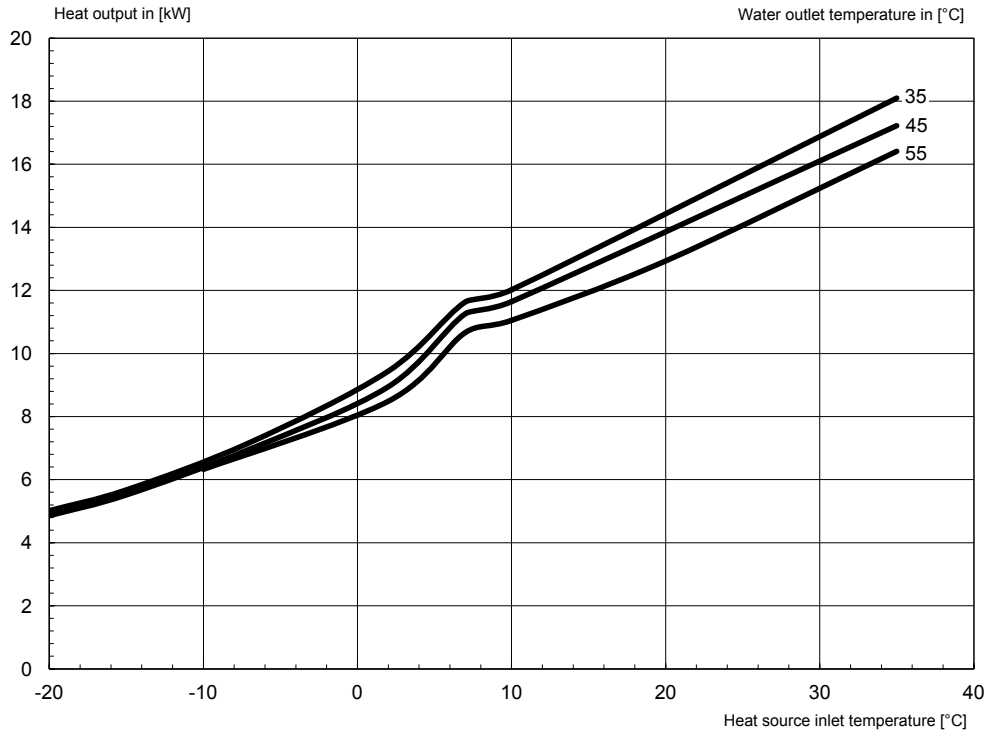
7) Depending on the heat pump type and refrigerant used, the maximum flow temperatures in heating operation may be reduced when the outside temperature falls. Further information can be found in the operating limit diagram for the heat pump. If the supporting feet are used, the level can increase by up to 3 dB (A).



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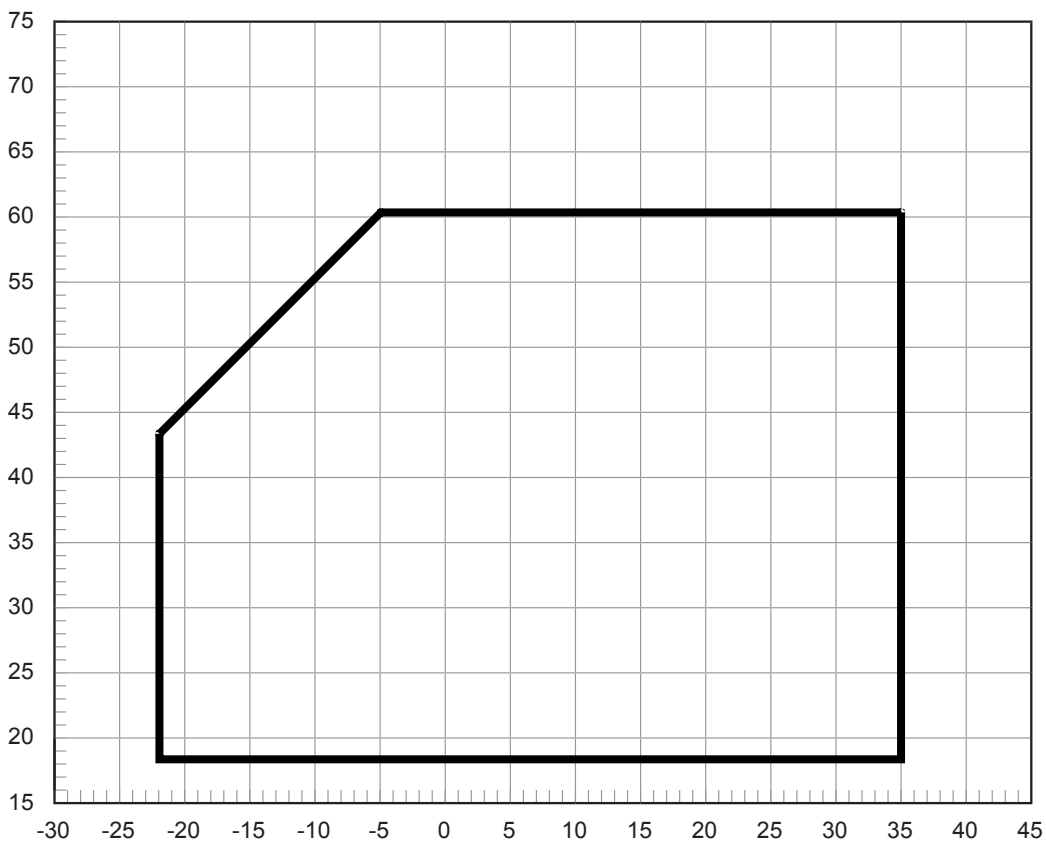


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Heating water temperature [°C]



Heat source inlet temperature [°C]

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Note:
The maximum possible flow temperature and the operating limits vary by $\pm 2\text{K}$ 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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