LIK 8TES

Device information	LIK 8TES
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 temperature7)	18 / 60 °C +-2K
- Lower operating limit heat source (heating operation) / Upper operating limit heat source (heating operation)	-20 / 35 °C
- Free compression circulating pump heating (max. level)	22500 Pa
Flow / sound	
- Max. heating water flow rate / Pressure drop	1,4 m³/h / 21500 Pa
- Heating water flow rate (A7W45) / Pressure drop (A7W45)	1,3 m³/h / 18500 Pa
- Heating water flow rate (A7W55) / Pressure drop (A7W55)	0,8 m³/h / 7000 Pa
- Minimum heating water flow rate / Pressure drop	0,8 m³/h / 7000 Pa
- Heat source flow rate with external static pressure differential 0 Pa	3500 m³/h / 0 Pa
- Heat source flow (min.)	2800 m³/h / 25 Pa
- Sound power level	53 dB (A)
- Sound pressure level in 1 m (indoors)2)	48 dB (A)
Dimensions/weight and filling quantities	
- Weight	236 kg
- Thread type, heating connection / Connection heating	G / 1 inch
- Air duct outlet dimensions	440 x 440 mm
- Dimensions of air duct entry	440 x 440 mm
- Refrigerant / Amount of refrigerant	R410A / 1,9 kg
- Oil type / Oil quantity	Polyolester (POE) / 1,2 l
- Water content	55 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	17 A
- Rotary field monitoring	Yes
- Nominal power consumption A7/W35 / Maximum electric power consumption1)	1,88 / 3,5 kW
- Nominal current at A7/W35 / cos phi	3,4 A / 0,8
- Power consumption of the fan	230 W
- Power input of integrated pump	0,045 kW
- Output of electric heating element	2 kW
Additional model features	

Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach

T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee

T: + 43 6214 20330
F: + 43 6214 203304
info@dimplex.at
www.dimplex.at

- Type of defrosting	Reverse circulation
- Water in device protected against freezing4)	Yes
- Permissible operating overpressure	3 bar

LIK 8TES

Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach

T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee

T: + 43 6214 20330
F: + 43 6214 203304
info@dimplex.at
www.dimplex.at

LIK 8TES

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

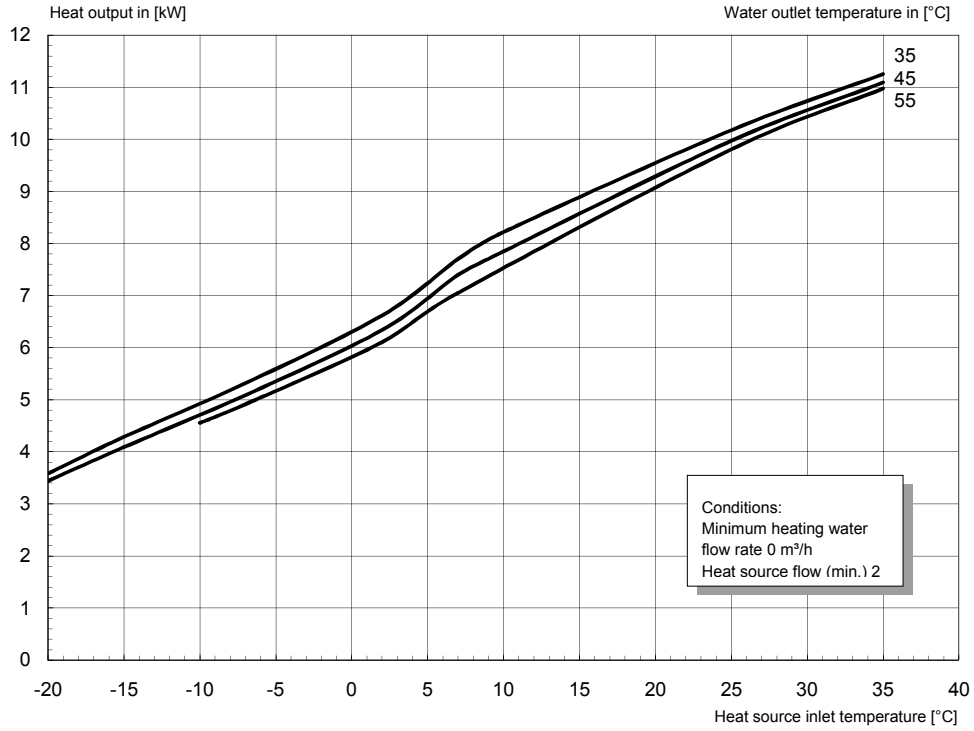
Heizen 1 Verdichter	W35	W45	W55
A-20	3.59 kW / 1.98	3.44 kW / 1.61	
A-15	4.29 kW / 2.31	4.09 kW / 1.87	
A-7	5.3 kW / 2.9	5.09 kW / 2.26	4.91 kW / 1.82
A2	6.6 kW / 3.6	6.34 kW / 2.73	6.1 kW / 2.17
A7	7.7 kW / 4.1	7.4 kW / 3.2	7.05 kW / 2.5
A10	8.2 kW / 4.4	7.85 kW / 3.4	7.5 kW / 2.7
A20	9.6 kW / 5.1	9.3 kW / 4.0	9.0 kW / 3.2

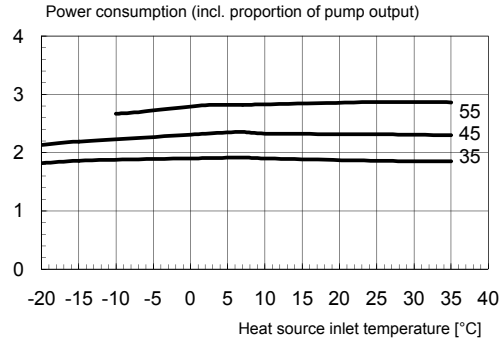
Note:
1) This data indicates the size and capacity of the system according to EN 14511. For an analysis of the economic and energy efficiency of the system, the bivalence point and regulation should be taken into consideration. These specifications can only be achieved with clean heat exchangers. Information 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).

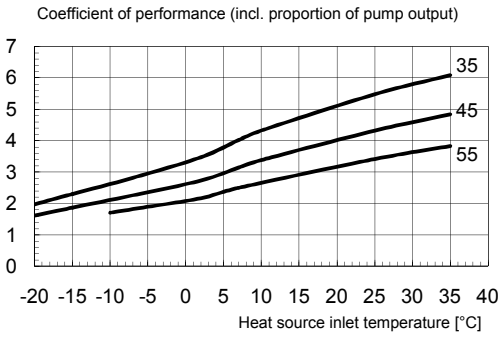
Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach
T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

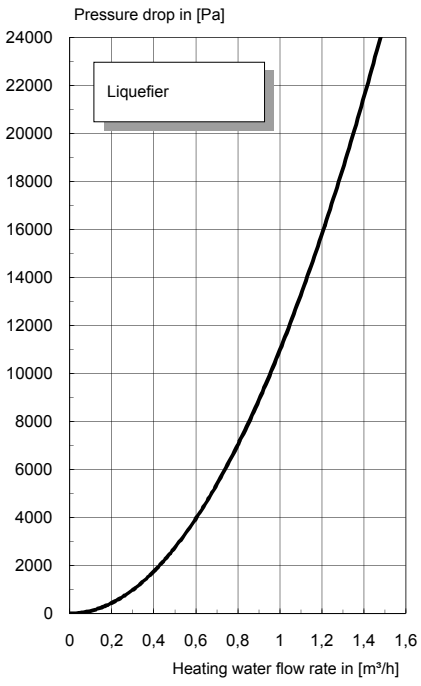
Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee
T: + 43 6214 20330
F: + 43 6214 203304
info@dimplex.at
www.dimplex.at

LIK 8TES









Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach

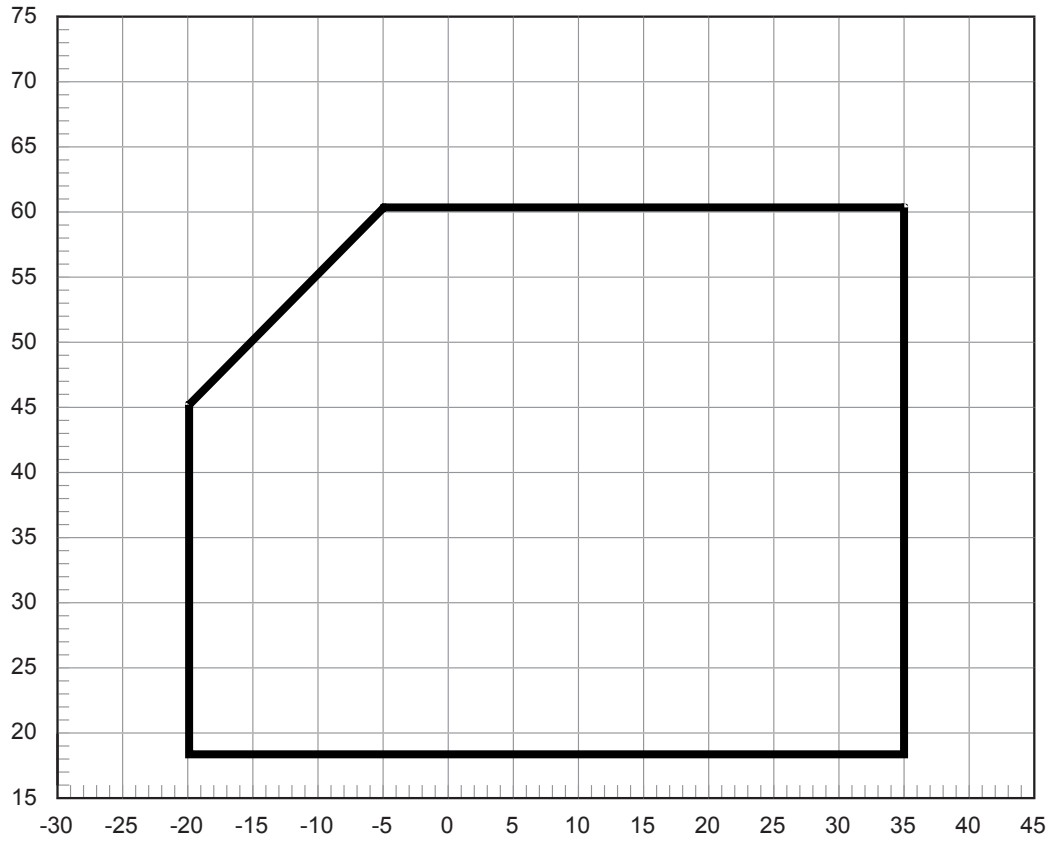
T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee

T: + 43 6214 20330
F: + 43 6214 203304
info@dimplex.at
www.dimplex.at

LIK 8TES

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.

Glen Dimplex Thermal Solutions
(Glen Dimplex Deutschland GmbH)
Am Goldenen Feld 18
D-95326 Kulmbach

T: + 49 9221 709-100
F: + 49 9221 709-339
dimplex@dimplex.de
www.dimplex.de

Glen Dimplex Austria GmbH
Hauptstraße 71
A-5302 Henndorf am Wallersee

T: + 43 6214 20330
F: + 43 6214 203304
info@dimplex.at
www.dimplex.at