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This information was generated by the HP KEYMARK database on 13 Apr 2022

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Summary of	S12L-M-CC	Reg. No.	011-1W0478
Certificate Holder			
Name	Heliotherm GmbH	Heliotherm GmbH	
Address	Sportplatzweg 18	Zip	A-6336
City	Langkampfen	Country	Austria
Certification Body	DIN CERTCO Gesellschaft	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH	
Subtype title	S12L-M-CC	S12L-M-CC	
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water	
Refrigerant	R410A	R410A	
Mass of Refrigerant	6.6 kg	6.6 kg	
Certification Date	14.12.2017	14.12.2017	
Testing basis	HP KEYMARK certification	HP KEYMARK certification scheme rules rev. 8	



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Model: HELIOTHERM - Luft/Wasserwärmepumpe modulierend Baureihe Sensor Comfort Compact

Configure model		
Model name	HELIOTHERM - Luft/Wasserwärmepumpe modulierend Baureihe Sensor Comfort Compact	
Application	Heating (low temp)	
Units	Outdoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
Low temperature		
Heat output	7.99 kW	
El input	1.70 kW	
СОР	4.71	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

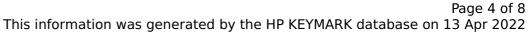


Average Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	50 dB(A)

EN 14825	
	Low temperature
ls	180 %
Prated	12.00 kW
SCOP	4.57
Γbiv	-10 °C
ГОЬ	-10 °C
Pdh Tj = -7°C	10.62 kW
COP Tj = -7°C	2.72
Cdh Tj = -7 °C	0.997
Pdh Tj = +2°C	6.57 kW
COP Tj = +2°C	4.69
Cdh Tj = +2 °C	0.993
Pdh Tj = +7°C	7.48 kW
$COP Tj = +7^{\circ}C$	5.64
Cdh Tj = +7 °C	0.987

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This information was generated by the	
Pdh Tj = 12°C	8.35 kW
COP Tj = 12°C	6.91
Cdh Tj = +12 °C	0.982
Pdh Tj = Tbiv	11.99 kW
COP Tj = Tbiv	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.998
WTOL	62 °C
Poff	1 W
РТО	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.01 kW
Annual energy consumption Qhe	5450 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	50 dB(A)



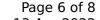


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EN 14825

	Low temperature
η_{s}	215 %
Prated	12.00 kW
SCOP	5.45
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	11.91 kW
COP Tj = +2°C	4.30
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	7.65 kW
COP Tj = +7°C	5.40
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	5.42 kW
COP Tj = 12°C	5.73
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	11.91 kW
COP Tj = Tbiv	4.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.91 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	0.990

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3083 kWh



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WTOL

Poff

1 W

PTO

7 W

PSB

7 W

PCK

6 W

Supplementary Heater: Type of energy input

Electricity

Supplementary Heater: PSUP

0.09 kW

Colder Climate

Annual energy consumption Qhe

EN 12102-1	
	Low temperature
Sound power level outdoor	50 dB(A)

EN 14825		
	Low temperature	
η_{s}	149 %	
Prated	12.00 kW	
SCOP	4.14	
Tbiv	-19 °C	
TOL	-22 °C	
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This information was generated by the HP KEYMARK database on 13 Apr 2022

This information was generated by the HF KLTV	TARK database on 15 Apr 2022
Pdh Tj = -7°C	7.17 kW
COP Tj = -7°C	3.45
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	4.59 kW
COP Tj = +2°C	4.48
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	4.61 kW
$COP Tj = +7^{\circ}C$	4.85
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	5.43 kW
COP Tj = 12°C	5.69
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	11.22 kW
COP Tj = Tbiv	1.89
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.61
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990
WTOL	62 °C
Poff	1 W
РТО	7 W
PSB	7 W



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PCK	6 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	2.60 kW
Annual energy consumption Qhe	6087 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.47
COP Tj = -15°C (if TOL $<$ -20°C)	2.40
Cdh Tj = -15 °C	0.990