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Login

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

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
COP	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

Warmer Climate

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

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
WTOL	62 °C
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
Annual energy consumption Qhe	3083 kWh

Colder Climate

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
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°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
PTO	7 W
PSB	7 W
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

Average Climate

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

EN 14825	
	Low temperature
η_s	180 %

Prated	12.00 kW
SCOP	4.57
Tbiv	-10 °C
TOL	-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°C	5.64
Cdh Tj = +7 °C	0.987
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
PTO	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