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Login

Summary of	HP12L-M-BC	Reg. No.	011-1W0204
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	HP12L-M-BC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	8.1 kg		
Certification Date	14.12.2017		
Testing basis	HP KEYMARK certification scheme rules rev. 8		

Model: HELIOTHERM - Luft-/Wasserwärmepumpe in Splittbauweise modulierend Baureihe Basic Comfort

Configure model	
Model name	HELIOTHERM - Luft-/Wasserwärmepumpe in Splittbauweise modulierend Baureihe Basic Comfort
Application	Heating (low temp)
Units	Indoor + 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	8.33 kW
El input	1.53 kW
COP	5.43

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 indoor	41 dB(A)
Sound power level outdoor	40 dB(A)

EN 14825	
	Low temperature
η_s	224 %
Prated	12.00 kW
SCOP	5.68
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	12.03 kW
COP Tj = +2°C	4.48

Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	7.73 kW
COP Tj = +7°C	5.62
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	5.47 kW
COP Tj = 12°C	5.97
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	12.03 kW
COP Tj = Tbiv	4.48
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.03 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.48
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	0.00 kW
Annual energy consumption Qhe	2958 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	41 dB(A)
Sound power level outdoor	40 dB(A)

EN 14825	
	Low temperature
η_s	157 %
Prated	12.00 kW
SCOP	3.99
Tbiv	-19 °C
TOL	-22 °C
Pdh Tj = -7°C	7.24 kW
COP Tj = -7°C	3.59
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	4.64 kW
COP Tj = +2°C	4.67
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	4.66 kW
COP Tj = +7°C	5.05
Cdh Tj = +7 °C	0.990

Pdh Tj = 12°C	5.48 kW
COP Tj = 12°C	5.93
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	11.33 kW
COP Tj = Tbiv	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.68
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	2.51 kW
Annual energy consumption Qhe	6316 kWh
Pdh Tj = -15°C (if TOL<-20°C)	9.57
COP Tj = -15°C (if TOL<-20°C)	2.50
Cdh Tj = -15 °C	0.990

Average Climate

EN 12102-1	
	Low temperature
Sound power level indoor	41 dB(A)
Sound power level outdoor	40 dB(A)

EN 14825	
	Low temperature
η_s	189 %
Prated	12.00 kW
SCOP	4.79
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	10.83 kW
COP Tj = -7°C	2.86
Cdh Tj = -7 °C	0.997
Pdh Tj = +2°C	6.70 kW
COP Tj = +2°C	4.92
Cdh Tj = +2 °C	0.993
Pdh Tj = +7°C	7.63 kW
COP Tj = +7°C	5.92
Cdh Tj = +7 °C	0.987

Pdh Tj = 12°C	8.52 kW
COP Tj = 12°C	7.26
Cdh Tj = +12 °C	0.982
Pdh Tj = Tbiv	12.23 kW
COP Tj = Tbiv	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.23 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31
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	0.00 kW
Annual energy consumption Qhe	5200 kWh