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Login

Summary of	HP20L-M-BC	Reg. No.	011-1W0205
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	HP20L-M-BC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	9.3 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	16.15 kW
El input	3.01 kW
COP	5.37

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	43 dB(A)
Sound power level outdoor	46 dB(A)

EN 14825	
	Low temperature
η_s	262 %
Prated	18.00 kW
SCOP	6.56
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	18.40 kW
COP Tj = +2°C	4.39

Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	11.35 kW
COP Tj = +7°C	6.16
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	7.48 kW
COP Tj = 12°C	7.38
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	18.40 kW
COP Tj = Tbiv	4.39
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.39
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	4568 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	43 dB(A)
Sound power level outdoor	46 dB(A)

EN 14825	
	Low temperature
η_s	175 %
Prated	18.00 kW
SCOP	4.38
Tbiv	-18 °C
TOL	-22 °C
Pdh Tj = -7°C	11.20 kW
COP Tj = -7°C	3.70
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	6.97 kW
COP Tj = +2°C	5.51
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	6.39 kW
COP Tj = +7°C	6.13
Cdh Tj = +7 °C	0.990

Pdh Tj = 12°C	7.67 kW
COP Tj = 12°C	7.62
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	16.85 kW
COP Tj = Tbiv	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.05 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90
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	3.95 kW
Annual energy consumption Qhe	8791 kWh
Pdh Tj = -15°C (if TOL<-20°C)	14.77
COP Tj = -15°C (if TOL<-20°C)	2.54
Cdh Tj = -15 °C	0.990

Average Climate

EN 12102-1	
	Low temperature
Sound power level indoor	43 dB(A)
Sound power level outdoor	46 dB(A)

EN 14825	
	Low temperature
η_s	205 %
Prated	18.00 kW
SCOP	5.21
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	16.18 kW
COP Tj = -7°C	3.19
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	9.20 kW
COP Tj = +2°C	5.22
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	6.94 kW
COP Tj = +7°C	6.64
Cdh Tj = +7 °C	0.990

Pdh Tj = 12°C	8.13 kW
COP Tj = 12°C	7.64
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	18.47 kW
COP Tj = Tbiv	2.67
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.47 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.67
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	7100 kWh