

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	HP12L-M-BC / S12L-M-CC	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		
Name of testing laboratory	Wärmepumpen-Testzentrum WPZ		
Subtype title	HP12L-M-BC / S12L-M-CC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	6.8 kg		

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2

	Low temperature
Heat output	8.33 kW
El input	1.53 kW
COP	5.43
Indoor water flow rate	2.60 m ³ /h

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1

	Low temperature
Sound power level indoor	42 dB(A)

EN 14825

	Low temperature
η_s	189 %
Prated	12.00 kW
SCOP	4.79
Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = -7°C	10.83 kW
COP Tj = -7°C	2.86
Pdh Tj = +2°C	6.70 kW
COP Tj = +2°C	4.92
Pdh Tj = +7°C	7.63 kW
COP Tj = +7°C	5.92
Pdh Tj = 12°C	8.52 kW
COP Tj = 12°C	7.26
Pdh Tj = Tbiv	12.23 kW
COP Tj = Tbiv	2.31

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P _{dh} T _j = TOL	12.23 kW
COP T _j = TOL	2.31
C _{dh}	0.01
WTOL	62 °C
P _{off}	1 W
PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Q _{he}	3507 kWh

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	42 dB(A)

EN 14825	
	Low temperature
η_s	224 %
Prated	12.00 kW

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SCOP	5.68
Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = +2°C	12.03 kW
COP Tj = +2°C	4.48
Pdh Tj = +7°C	7.73 kW
COP Tj = +7°C	5.62
Pdh Tj = 12°C	5.47 kW
COP Tj = 12°C	5.97
Pdh Tj = Tbiv	12.03 kW
COP Tj = Tbiv	4.48
Pdh Tj = TOL	12.03 kW
COP Tj = TOL	4.48
Cdh	0.01
WTOL	62 °C
Poff	1 W
PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW

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Annual energy consumption Q_{he}	2958 kWh
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Colder Climate

EN 12102-1	
	Low temperature
Sound power level indoor	42 dB(A)

EN 14825	
	Low temperature
η_s	157 %
Prated	12.00 kW
SCOP	3.99
Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = -7°C	7.24 kW
COP Tj = -7°C	3.59
Pdh Tj = +2°C	4.64 kW
COP Tj = +2°C	4.67
Pdh Tj = +7°C	4.66 kW
COP Tj = +7°C	5.05
Pdh Tj = 12°C	5.48 kW

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COP Tj = 12°C	5.93
Pdh Tj = Tbiv	11.33 kW
COP Tj = Tbiv	1.97
Pdh Tj = TOL	13.61 kW
COP Tj = TOL	1.32
Cdh	0.01
WTOL	62 °C
Poff	1 W
PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Qhe	6316 kWh

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

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2

	Low temperature
Heat output	7.99 kW
El input	1.70 kW
COP	4.71
Indoor water flow rate	2.60 m ³ /h

Average Climate

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	Low temperature
η_s	180 %
Prated	12.00 kW
SCOP	4.57
Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = -7°C	10.62 kW
COP Tj = -7°C	2.72
Pdh Tj = +2°C	6.57 kW
COP Tj = +2°C	4.69
Pdh Tj = +7°C	7.48 kW
COP Tj = +7°C	5.64
Pdh Tj = 12°C	8.35 kW
COP Tj = 12°C	6.91
Pdh Tj = Tbiv	11.99 kW
COP Tj = Tbiv	2.20
Pdh Tj = TOL	11.99 kW
COP Tj = TOL	2.20
Cdh	0.01
WTOL	62 °C
Poff	1 W

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PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Q _{he}	3676 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	42 dB(A)

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	42 dB(A)

EN 14825	
	Low temperature
η_s	215 %
Prated	12.00 kW
SCOP	5.45

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Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = +2°C	11.91 kW
COP Tj = +2°C	4.30
Pdh Tj = +7°C	7.65 kW
COP Tj = +7°C	5.40
Pdh Tj = 12°C	5.42 kW
COP Tj = 12°C	5.73
Pdh Tj = Tbiv	11.91 kW
COP Tj = Tbiv	4.30
Pdh Tj = TOL	11.91 kW
COP Tj = TOL	4.30
Cdh	0.01
WTOL	62 °C
Poff	1 W
PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Qhe	3083 kWh

Colder Climate

EN 14825	
	Low temperature
η_s	163 %
Prated	12.00 kW
SCOP	4.14
Tbiv	-19 °C
TOL	-25 °C
Pdh Tj = -7°C	7.17 kW
COP Tj = -7°C	3.45
Pdh Tj = +2°C	4.59 kW
COP Tj = +2°C	4.48
Pdh Tj = +7°C	4.61 kW
COP Tj = +7°C	4.85
Pdh Tj = 12°C	5.43 kW
COP Tj = 12°C	5.69
Pdh Tj = Tbiv	11.22 kW
COP Tj = Tbiv	1.89
Pdh Tj = TOL	13.14 kW
COP Tj = TOL	1.21
Cdh	0.01

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WTOL	62 °C
Poff	1 W
PTO	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Qhe	6087 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	42 dB(A)