

Summary of	HP20L-M-BC / S18L-M-CC	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		
Name of testing laboratory	Wärmepumpen-Testzentrum WPZ		
Subtype title	HP20L-M-BC / S18L-M-CC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	8 kg		



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

General Data	
Power supply	3x400V 50Hz

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	16.15 kW
El input	3.01 kW
СОР	5.37
Indoor water flow rate	3.70 m³/h

Average Climate





EN 14825

	Low temperature
η_{s}	208 %
Prated	18.00 kW
SCOP	5.21
Tbiv	-18 °C
TOL	-25 °C
Pdh Tj = -7°C	16.18 kW
COP Tj = -7°C	3.19
Pdh Tj = +2°C	9.20 kW
$COP Tj = +2^{\circ}C$	5.22
Pdh Tj = +7°C	6.94 kW
$COP Tj = +7^{\circ}C$	6.64
Pdh Tj = 12°C	8.13 kW
COP Tj = 12°C	7.64
Pdh Tj = Tbiv	18.47 kW
COP Tj = Tbiv	2.67
Pdh Tj = TOL	18.47 kW
COP Tj = TOL	2.67
Cdh	0.01
WTOL	62 °C



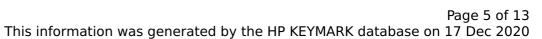


Poff	1 W
РТО	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Elektrizität
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Qhe	6062 kWh

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

Warmer Climate

EN 14825	
	Low temperature
η_{s}	262 %
Prated	18.00 kW
SCOP	6.56
Tbiv	-18 °C
TOL	-25 °C
Pdh Tj = +2°C	18.40 kW





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COP Tj = +2°C	4.39
Pdh Tj = +7°C	11.35 kW
$COP Tj = +7^{\circ}C$	6.16
Pdh Tj = 12°C	7.48 kW
COP Tj = 12°C	7.38
Pdh Tj = Tbiv	18.40 kW
COP Tj = Tbiv	4.39
Pdh Tj = TOL	18.40 kW
COP Tj = TOL	4.39
Cdh	0.01
WTOL	62 °C
Poff	1 W
РТО	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	4568 kWh



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

Colder Climate

EN 14825	
	Low temperature
l₅	175 %
Prated	18.00 kW
СОР	4.38
biv	-18 °C
OL	-25 °C
dh Tj = -7°C	11.20 kW
COP Tj = -7°C	3.70
dh Tj = +2°C	6.97 kW
OP Tj = +2°C	5.51
dh Tj = +7°C	6.39 kW
COP Tj = +7°C	6.13
dh Tj = 12°C	7.67 kW
OP Tj = 12°C	7.62
dh Tj = Tbiv	10.38 kW

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COP Tj = Tbiv	1.88
Pdh Tj = TOL	15.08 kW
COP Tj = TOL	1.29
Cdh	0.01
WTOL	62 °C
Poff	1 W
РТО	7 W
PSB	7 W
PCK	6 W
Supplementary Heater: Type of energy input	Е
Supplementary Heater: PSUP	6.00 kW
Annual energy consumption Qhe	8791 kWh

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



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

General Data	
Power supply 3x400V 50Hz	

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	17.55 kW
El input	3.50 kW
СОР	5.01
Indoor water flow rate	3.70 m³/h

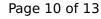
Average Climate

EN 14825





	Low temperature
η_{S}	195 %
Prated	18.00 kW
SCOP	4.96
Tbiv	-18 °C
TOL	-25 °C
Pdh Tj = -7°C	15.86 kW
$COPTj = -7^{\circ}C$	3.04
Pdh Tj = +2°C	9.02 kW
$COPTj = +2^{\circ}C$	4.97
Pdh Tj = +7°C	6.80 kW
$COP Tj = +7^{\circ}C$	6.32
Pdh Tj = 12°C	7.97 kW
COP Tj = 12°C	7.28
Pdh Tj = Tbiv	18.11 kW
COP Tj = Tbiv	2.54
Pdh Tj = TOL	18.11 kW
COP Tj = TOL	2.54
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	5081 kWh

EN 12102-1	
	Low temperature
Sound power level indoor	44 dB(A)

Warmer Climate

EN 12102-1	
	Low temperature
Sound power level indoor	44 dB(A)

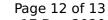
Low temperature
Low temperature
247 %
18.00 kW
6.25





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Tbiv	-18 °C
TOL	-25 °C
Pdh Tj = +2°C	18.04 kW
COP Tj = +2°C	4.18
Pdh Tj = +7°C	11.30 kW
$COP Tj = +7^{\circ}C$	5.87
Pdh Tj = 12°C	7.33 kW
COP Tj = 12°C	7.03
Pdh Tj = Tbiv	18.04 kW
COP Tj = Tbiv	4.18
Pdh Tj = TOL	18.04 kW
COP Tj = TOL	4.18
Cdh	0.01
WTOL	62 °C
Poff	1 W
РТО	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	4032 kWh





Colder Climate

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

EN 12102-1	
	Low temperature
Sound power level indoor	44 dB(A)

EN 14825	
	Low temperature
η_{s}	183 %
Prated	18.00 kW
SCOP	4.64
Tbiv	-18 °C
TOL	-25 °C
Pdh Tj = -7°C	10.98 kW
COP Tj = -7°C	3.52
Pdh Tj = +2°C	6.83 kW
COP Tj = +2°C	5.25
Pdh Tj = +7°C	6.26 kW
COP Tj = +7°C	5.84
Pdh Tj = 12°C	7.52 kW
COP Tj = 12°C	7.26
Pdh Tj = Tbiv	16.52 kW

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COP Tj = Tbiv	2.16
Pdh Tj = TOL	14.33 kW
COP Tj = TOL	1.15
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	8147 kWh