

Page 1 of 8

This information was generated by the HP KEYMARK database on 23 Jun 2022

<u>Login</u>

Summary of	HP20L-M-BC	Reg. No.	011-1W0205	
Certificate Holder				
Name	Heliotherm GmbH	Heliotherm GmbH		
Address	Sportplatzweg 18	Zip	A-6336	
City	Langkampfen	Country	Austria	
Certification Body	DIN CERTCO Gesellschaft	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	HP20L-M-BC	HP20L-M-BC		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R410A	R410A		
Mass of Refrigerant	9.3 kg	9.3 kg		
Certification Date	14.12.2017	14.12.2017		
Testing basis	HP KEYMARK certification	HP KEYMARK certification scheme rules rev. 8		

This information was generated by the HP KEYMARK database on 23 Jun 2022

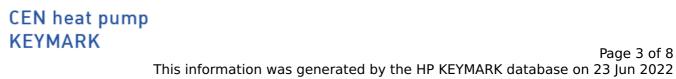
Model: HELIOTHERM - Luft-/Wasserwärmepumpe in Splittbauweise modulierend Baureihe Basic Comfort

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
СОР	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

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





This information was generated by the HP KEYMARK database on 23 Jun 2022

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 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	Cdh Tj = +2 °C	0.990
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	Pdh Tj = +7°C	11.35 kW
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	$COP Tj = +7^{\circ}C$	6.16
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	Cdh Tj = +7 °C	0.990
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	Pdh Tj = 12°C	7.48 kW
Pdh Tj = Tbiv 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	COP Tj = 12°C	7.38
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	Cdh Tj = +12 °C	0.990
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	Pdh Tj = Tbiv	18.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 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	COP Tj = Tbiv	4.39
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 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	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	18.40 kW
WTOL 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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.39
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	Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990
PTO 7 W PSB 7 W PCK 6 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	WTOL	62 °C
PSB 7 W PCK 6 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	Poff	1 W
PCK 6 W Supplementary Heater: Type of energy input Electricity Supplementary Heater: PSUP 0.00 kW	РТО	7 W
Supplementary Heater: Type of energy input Supplementary Heater: PSUP 0.00 kW	PSB	7 W
Supplementary Heater: PSUP 0.00 kW	PCK	6 W
	Supplementary Heater: Type of energy input	Electricity
Annual energy consumption Qhe 4568 kWh	Supplementary Heater: PSUP	0.00 kW
	Annual energy consumption Qhe	4568 kWh

Colder Climate



 $$\operatorname{\textit{Page}}\xspace\:5\:\:\text{of}\:8\:$ This information was generated by the HP KEYMARK database on 23 Jun 2022

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
$COPTj = +7^{\circ}C$	6.13
Cdh Tj = +7 °C	0.990

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





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



$$\operatorname{\textit{Page}}\ 7$$ of 8 This information was generated by the HP KEYMARK database on 23 Jun 2022

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
$COP Tj = +2^{\circ}C$	5.22
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	6.94 kW
$COP Tj = +7^{\circ}C$	6.64
Cdh Tj = +7 °C	0.990

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



CEN heat pump KEYMARK

 $$\operatorname{\textit{Page}}8 of 8 This information was generated by the HP KEYMARK database on 23 Jun 2022

	·
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
РТО	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