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Summary of	S08L-M-CC	Reg. No.	011-1W0477
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	S08L-M-CC		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4.9 kg		
Certification Date	14.12.2017		
Testing basis	HP KEYMARK certification scheme rules rev. 8		

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

Configure model	
Model name	HELIOTHERM - Luft/Wasserwärmepumpe modulierend Baureihe Sensor Comfort Compact
Application	Heating (low temp)
Units	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	6.87 kW
El input	1.36 kW
COP	5.05

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 outdoor	48 dB(A)

EN 14825	
	Low temperature
η_s	230 %
Prated	10.00 kW
SCOP	5.82
Tbiv	2 °C
TOL	2 °C
Pdh Tj = +2°C	9.98 kW
COP Tj = +2°C	4.15
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	6.42 kW
COP Tj = +7°C	5.68
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	4.61 kW
COP Tj = 12°C	6.30
Cdh Tj = +12 °C	0.990

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Pdh Tj = Tbiv	9.98 kW
COP Tj = Tbiv	4.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.15
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	0.02 kW
Annual energy consumption Qhe	2405 kWh

Colder Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	48 dB(A)

EN 14825	
	Low temperature

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η_s	159 %
Prated	10.00 kW
SCOP	4.05
Tbiv	-18 °C
TOL	-22 °C
Pdh Tj = -7°C	6.17 kW
COP Tj = -7°C	3.65
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	3.75 kW
COP Tj = +2°C	4.81
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	3.88 kW
COP Tj = +7°C	5.32
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	4.67 kW
COP Tj = 12°C	6.36
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	8.87 kW
COP Tj = Tbiv	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.31

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$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	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	2.20 kW
Annual energy consumption Q_{he}	5185 kWh
$P_{dh} T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	8.18
$COP T_j = -15^{\circ}\text{C}$ (if $TOL < -20^{\circ}\text{C}$)	2.37
$C_{dh} T_j = -15^{\circ}\text{C}$	0.990

Average Climate

EN 12102-1	
	Low temperature
Sound power level outdoor	48 dB(A)

EN 14825	
	Low temperature
η_s	177 %

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Prated	10.00 kW
SCOP	4.49
Tbiv	-10 °C
TOL	-10 °C
Pdh Tj = -7°C	8.80 kW
COP Tj = -7°C	2.70
Cdh Tj = -7 °C	0.990
Pdh Tj = +2°C	5.47 kW
COP Tj = +2°C	4.55
Cdh Tj = +2 °C	0.990
Pdh Tj = +7°C	5.94 kW
COP Tj = +7°C	5.65
Cdh Tj = +7 °C	0.990
Pdh Tj = 12°C	6.71 kW
COP Tj = 12°C	7.03
Cdh Tj = +12 °C	0.990
Pdh Tj = Tbiv	10.15 kW
COP Tj = Tbiv	2.20
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.15 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990

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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	Electricity
Supplementary Heater: PSUP	0.00 kW
Annual energy consumption Qhe	4600 kWh