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

Summary of	CTC EcoAir 614M	Reg. No.	012-SC0319-18
Certificate Holder			
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Name of testing laboratory	RISE		
Subtype title	CTC EcoAir 614M		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		

Model: CTC EcoAir 614M

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.94 kW	4.80 kW
El input	1.16 kW	1.47 kW
COP	5.10	3.26
Indoor water flow rate	1.01 m³/h	0.53 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	193 %	148 %
Prated	7.50 kW	7.60 kW
SCOP	4.90	3.78
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.80 kW	6.83 kW
COP Tj = -7°C	2.88	2.01
Pdh Tj = +2°C	4.05 kW	4.06 kW
COP Tj = +2°C	5.21	3.94
Pdh Tj = +7°C	2.63 kW	2.57 kW
COP Tj = +7°C	6.24	5.14
Pdh Tj = 12°C	3.03 kW	2.94 kW
COP Tj = 12°C	7.17	6.53
Pdh Tj = Tbiv	7.67 kW	7.65 kW
COP Tj = Tbiv	2.25	1.51

Pdh Tj = TOL	7.67 kW	7.65 kW
COP Tj = TOL	2.25	1.51
Cdh	0.98	0.98
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3163 kWh	4153 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	51 dB(A)	51 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	151 %	120 %
Prated	11.00 kW	11.00 kW

SCOP	3.85	3.08
Tbiv	-11 °C	-11 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.57 kW	6.68 kW
COP Tj = -7°C	3.16	2.40
Pdh Tj = +2°C	4.33 kW	4.18 kW
COP Tj = +2°C	5.57	4.44
Pdh Tj = +7°C	2.66 kW	2.54 kW
COP Tj = +7°C	6.38	5.29
Pdh Tj = 12°C	3.05 kW	2.98 kW
COP Tj = 12°C	7.04	6.92
Pdh Tj = Tbiv	8.06 kW	7.87 kW
COP Tj = Tbiv	2.20	1.74
Pdh Tj = TOL	5.04 kW	2.73 kW
COP Tj = TOL	1.81	1.32
Cdh	0.98	0.98
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	5.96 kW	8.27 kW
Annual energy consumption Qhe	7038 kWh	8797 kWh