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

Summary of	CTC EcoAir 408	Reg. No.	012-057
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 408		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		

Model: CTC EcoAir 408 1x230V

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.83 kW	7.08 kW
El input	1.62 kW	2.28 kW
COP	4.83	3.11
Indoor water flow rate	1.34 m³/h	0.76 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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	154 %	118 %
Prated	6.26 kW	6.37 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.50 kW
COP Tj = -7°C	3.07	2.21
Pdh Tj = +2°C	6.20 kW	5.50 kW
COP Tj = +2°C	4.03	2.98
Pdh Tj = +7°C	8.00 kW	7.60 kW
COP Tj = +7°C	5.28	4.09
Pdh Tj = 12°C	9.80 kW	9.00 kW
COP Tj = 12°C	6.58	5.31
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	3.30	2.51

Pdh Tj = TOL	4.30 kW	4.00 kW
COP Tj = TOL	2.80	1.91
Cdh	0.97	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	22 W	7 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.90 kW	2.40 kW
Annual energy consumption Qhe	3297 kWh	4343 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	133 %	106 %
Prated	4.82 kW	5.66 kW

SCOP	3.40	2.70
Tbiv	-14 °C	-11 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.80 kW	4.60 kW
COP Tj = -7°C	3.22	2.49
Pdh Tj = +2°C	6.30 kW	5.70 kW
COP Tj = +2°C	4.19	3.25
Pdh Tj = +7°C	8.00 kW	7.70 kW
COP Tj = +7°C	5.42	4.40
Pdh Tj = 12°C	9.80 kW	9.60 kW
COP Tj = 12°C	6.55	5.50
Pdh Tj = Tbiv	3.70 kW	3.40 kW
COP Tj = Tbiv	2.55	1.85
Pdh Tj = TOL	2.70 kW	2.30 kW
COP Tj = TOL	1.90	1.24
Cdh	0.97	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	22 W	7 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.10 kW	3.30 kW
Annual energy consumption Qhe	3494 kWh	5143 kWh

Model: CTC EcoAir 408 3x400V

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	7.83 kW	7.08 kW
El input	1.62 kW	2.28 kW
COP	4.83	3.11
Indoor water flow rate	1.34 m³/h	0.76 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	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	154 %	118 %
Prated	6.26 kW	6.37 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-4 °C
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COP Tj = -7°C	3.07	2.21
Pdh Tj = +2°C	6.20 kW	5.50 kW
COP Tj = +2°C	4.03	2.98
Pdh Tj = +7°C	8.00 kW	7.60 kW
COP Tj = +7°C	5.28	4.09
Pdh Tj = 12°C	9.80 kW	9.00 kW
COP Tj = 12°C	6.58	5.31
Pdh Tj = Tbiv	5.10 kW	4.90 kW
COP Tj = Tbiv	3.30	2.51

Pdh Tj = TOL	4.30 kW	4.00 kW
COP Tj = TOL	2.80	1.91
Cdh	0.97	0.99
WTOL	65 °C	65 °C
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PSB	18 W	18 W
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