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

Summary of	CTC EcoAir 406	Reg. No.	012-056
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 406		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		

Model: CTC EcoAir 406 1x230V

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.22 kW	5.56 kW
El input	1.28 kW	1.83 kW
COP	4.78	3.03
Indoor water flow rate	1.09 m³/h	0.62 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	151 %	131 %
Prated	5.08 kW	4.95 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.50 kW
COP Tj = -7°C	3.16	2.13
Pdh Tj = +2°C	4.80 kW	4.40 kW
COP Tj = +2°C	3.92	2.93
Pdh Tj = +7°C	6.40 kW	6.00 kW
COP Tj = +7°C	5.25	3.99
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.66	5.21
Pdh Tj = Tbiv	4.10 kW	3.80 kW
COP Tj = Tbiv	3.35	2.44

Pdh Tj = TOL	3.50 kW	3.10 kW
COP Tj = TOL	2.85	1.82
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.90 kW
Annual energy consumption Qhe	2722 kWh	3045 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	131 %	103 %
Prated	4.14 kW	5.14 kW

SCOP	3.40	2.70
Tbiv	-13 °C	-9 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.00 kW	3.60 kW
COP Tj = -7°C	3.34	2.49
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.07	3.22
Pdh Tj = +7°C	6.40 kW	6.10 kW
COP Tj = +7°C	5.40	4.34
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.62	5.44
Pdh Tj = Tbiv	3.20 kW	3.40 kW
COP Tj = Tbiv	2.92	2.37
Pdh Tj = TOL	1.90 kW	1.70 kW
COP Tj = TOL	1.83	1.67
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.20 kW	3.50 kW
Annual energy consumption Qhe	3045 kWh	4785 kWh

Model: CTC EcoAir 406 3x400V

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.22 kW	5.56 kW
El input	1.28 kW	1.83 kW
COP	4.78	3.03
Indoor water flow rate	1.09 m³/h	0.62 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	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	151 %	131 %
Prated	5.08 kW	4.95 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.50 kW
COP Tj = -7°C	3.16	2.13
Pdh Tj = +2°C	4.80 kW	4.40 kW
COP Tj = +2°C	3.92	2.93
Pdh Tj = +7°C	6.40 kW	6.00 kW
COP Tj = +7°C	5.25	3.99
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.66	5.21
Pdh Tj = Tbiv	4.10 kW	3.80 kW
COP Tj = Tbiv	3.35	2.44

Pdh Tj = TOL	3.50 kW	3.10 kW
COP Tj = TOL	2.85	1.82
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.60 kW	1.90 kW
Annual energy consumption Qhe	2722 kWh	3045 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	131 %	103 %
Prated	4.14 kW	5.14 kW

SCOP	3.40	2.70
Tbiv	-13 °C	-9 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.00 kW	3.60 kW
COP Tj = -7°C	3.34	2.49
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.07	3.22
Pdh Tj = +7°C	6.40 kW	6.10 kW
COP Tj = +7°C	5.40	4.34
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.62	5.44
Pdh Tj = Tbiv	3.20 kW	3.40 kW
COP Tj = Tbiv	2.92	2.37
Pdh Tj = TOL	1.90 kW	1.70 kW
COP Tj = TOL	1.83	1.67
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.20 kW	3.50 kW
Annual energy consumption Qhe	3045 kWh	4785 kWh