

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	RISE CERT		
Name of testing laboratory	RISE	RISE		
Subtype title	CTC EcoAir 408	CTC EcoAir 408		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R407c	R407c		
Mass Of Refrigerant	2.2 kg	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	
СОР	4.83	3.11	
Indoor water flow rate	1.34 m³/h	0.76 m³/h	

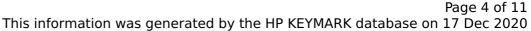
EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## **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
$\eta_{s}$	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 = TOL4.30 kW 4.00 kW COPTj = TOL2.80 1.91 0.97 0.99 Cdh 65 °C WTOL 65 °C Poff 18 W 18 W 22 W 7 W PTO 18 W 18 W **PSB PCK** 0 W 0 W Supplementary Heater: Type of energy input electricity electricity

1.90 kW

3297 kWh

2.40 kW

4343 kWh

#### Colder Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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

EN 14825		
	Low temperature	Medium temperature
$\eta_{S}$	133 %	106 %
Prated	4.82 kW	5.66 kW



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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 = $+7^{\circ}$ C	8.00 kW	7.70 kW
$COPTj = +7^{\circ}C$	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
РТО	22 W	7 W
PSB	18 W	18 W
PCK	0 W	o w



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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	
СОР	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	

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Poff	18 W	18 W
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