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Login

Summary of	CTC EcoAir 510M 3x400V	Reg. No.	012-070	
Certificate Holder				
Name	Enertech CTC AB	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26	
City	Ljungby	Country	Sweden	
Certification Body	RISE CERT	RISE CERT		
Subtype title	CTC EcoAir 510M 3x400V	CTC EcoAir 510M 3x400V		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R407c	R407c		
Mass of Refrigerant	2.2 kg			



Model: CTC EcoAir 510M 3x400V

Configure model			
Model name	CTC EcoAir 510M 3x400V		
Application	Heating (medium temp)		
Units	Outdoor		
Climate Zone	Colder Climate		
Reversibility	No		
Cooling mode application (optional) n/a			

General Data		
Power supply	3x400V 50Hz	
Phase-out Date	25.10.2023	

Heating

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	

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.50 kW	5.71 kW	
El input	1.29 kW	1.83 kW	
СОР	5.05	3.12	



Colder Climate

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	138 %	111 %
Prated	5.40 kW	7.80 kW
SCOP	3.50	2.90
Tbiv	-19 °C	-14 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	3.20 kW	4.60 kW
COP Tj = -7° C	3.20	2.33
Pdh Tj = $+2$ °C	2.00 kW	2.90 kW
$COPTj = +2^{\circ}C$	4.48	3.83
Pdh Tj = +7°C	2.60 kW	2.50 kW
$COPTj = +7^{\circ}C$	6.66	5.47
Pdh Tj = 12°C	3.00 kW	3.00 kW
COP Tj = 12°C	7.81	6.99
Pdh Tj = Tbiv	4.40 kW	6.00 kW

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COP Tj = Tbiv2.26 1.50 Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 3.50 kW 4.40 kW COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh 1.77 1.13 Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W **PSB** 15 W 15 W **PCK** 0 W 0 W

Electricity

5.40 kW

3766 kWh

Electricity

7.80 kW

6754 kWh

Average Climate

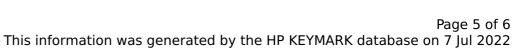
Supplementary Heater: PSUP

Annual energy consumption Qhe

Supplementary Heater: Type of energy input

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level outdoor	60 dB(A)	60 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_s	182 %	134 %





Prated	6.40 kW	7.00 kW
SCOP	4.60	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.70 kW	6.10 kW
COP Tj = -7°C	2.75	1.90
Pdh Tj = +2°C	3.60 kW	4.00 kW
COP Tj = +2°C	4.53	3.35
Pdh Tj = +7°C	2.70 kW	2.50 kW
COP Tj = +7°C	6.84	5.08
Pdh Tj = 12°C	3.10 kW	3.00 kW
COP Tj = 12°C	8.50	6.68
Pdh Tj = Tbiv	6.20 kW	6.50 kW
COP Tj = Tbiv	2.28	1.55
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.20 kW	6.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.28	1.55
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	15 W	15 W
РТО	5 W	5 W
PSB	15 W	15 W



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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.20 kW	0.50 kW
Annual energy consumption Qhe	2854 kWh	4221 kWh