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Summary of	CTC EcoAir 510M 3x400V	Reg. No.	012-070
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 510M 3x400V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		



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Model: CTC EcoAir 510M 3x400V

General Data	
Power supply	3x400V 50Hz

Heating

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	
Indoor water flow rate	1.08 m³/h	0.61 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



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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

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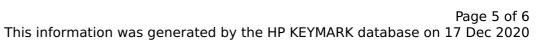


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Pdh Tj = TOL	6.20 kW	6.50 kW
COP Tj = TOL	2.28	1.55
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	15 W	15 W
РТО	5 W	5 W
PSB	15 W	15 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.20 kW	0.50 kW
Annual energy consumption Qhe	2854 kWh	4221 kWh

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





TDiv	SCOP	3.50	2.90
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 COP Tj = +2°C 4.48 3.83 Pdh Tj = +7°C 2.60 kW 2.50 kW COP Tj = +7°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 COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PSB 15 W 15 W	Tbiv	-19 °C	-14 °C
COP Tj = -7°C 3.20 2.33 Pdh Tj = +2°C 2.00 kW 2.90 kW COP Tj = +2°C 4.48 3.83 Pdh Tj = +7°C 2.60 kW 2.50 kW COP Tj = +7°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 COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 6.5°C 6.5°C Poff 15 W PSB 15 W PSB	TOL	-22 °C	-22 °C
Pdh Tj = +2°C 2.00 kW 2.90 kW COP Tj = +2°C 4.48 3.83 Pdh Tj = +7°C 2.60 kW 2.50 kW COP Tj = +7°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 COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Pdh Tj = -7°C	3.20 kW	4.60 kW
COP Tj = +2°C	COP Tj = -7 °C	3.20	2.33
Pdh Tj = +7°C	Pdh Tj = $+2$ °C	2.00 kW	2.90 kW
COP Tj = +7°C	COP Tj = +2°C	4.48	3.83
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 COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Pdh Tj = $+7^{\circ}$ C	2.60 kW	2.50 kW
COP Tj = 12°C 7.81 6.99 Pdh Tj = Tbiv 4.40 kW 6.00 kW COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W	$COPTj = +7^{\circ}C$	6.66	5.47
Pdh Tj = Tbiv 4.40 kW 6.00 kW COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Pdh Tj = 12°C	3.00 kW	3.00 kW
COP Tj = Tbiv 2.26 1.50 Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	COP Tj = 12°C	7.81	6.99
Pdh Tj = TOL 3.50 kW 4.40 kW COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Pdh Tj = Tbiv	4.40 kW	6.00 kW
COP Tj = TOL 1.77 1.13 Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	COP Tj = Tbiv	2.26	1.50
Cdh 0.97 0.98 WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Pdh Tj = TOL	3.50 kW	4.40 kW
WTOL 65 °C 65 °C Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	COP Tj = TOL	1.77	1.13
Poff 15 W 15 W PTO 5 W 5 W PSB 15 W 15 W	Cdh	0.97	0.98
PTO 5 W 5 W PSB 15 W 15 W	WTOL	65 °C	65 °C
PSB 15 W 15 W	Poff	15 W	15 W
	РТО	5 W	5 W
PCK 0 W 0 W	PSB	15 W	15 W
	РСК	o w	o w



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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	5.40 kW	7.80 kW
Annual energy consumption Qhe	3766 kWh	6754 kWh