Login

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		
Subtype title	CTC EcoAir 510M 3x400V		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	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 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.50 kW	5.71 kW
El input	1.29 kW	1.83 kW
COP	5.05	3.12

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	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
PTO	5 W	5 W
PSB	15 W	15 W
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

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
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 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
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