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Login

Summary of	CTC EcoAir 520M	Reg. No.	012-062
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 520M		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.7 kg		

Model: CTC EcoAir 520M

Configure model	
Model name	CTC EcoAir 520M
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	6.14 kW	9.59 kW
El input	1.19 kW	3.06 kW
COP	5.16	3.13

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	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	177 %	132 %
Prated	7.90 kW	8.50 kW
SCOP	4.50	3.40
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.90 kW	7.60 kW
COP Tj = -7°C	3.09	2.07
Pdh Tj = +2°C	4.20 kW	4.60 kW
COP Tj = +2°C	4.82	3.49
Pdh Tj = +7°C	5.00 kW	4.80 kW
COP Tj = +7°C	6.18	4.69
Pdh Tj = 12°C	5.70 kW	5.80 kW
COP Tj = 12°C	7.62	6.36
Pdh Tj = Tbiv	8.00 kW	8.40 kW

COP Tj = Tbiv	2.72	1.71
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.00 kW	8.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.71
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	10 W	10 W
PSB	18 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	3526 kWh	5090 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	149 %	121 %

Prated	11.00 kW	10.00 kW
SCOP	3.80	3.10
Tbiv	-13 °C	-14 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.70 kW	6.10 kW
COP Tj = -7°C	3.42	2.49
Pdh Tj = +2°C	4.10 kW	4.10 kW
COP Tj = +2°C	4.51	4.12
Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.57	5.40
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.53	6.84
Pdh Tj = Tbiv	7.90 kW	7.80 kW
COP Tj = Tbiv	2.26	1.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.70	1.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	10 W	10 W
PSB	0 W	0 W

PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.40 kW	4.60 kW
Annual energy consumption Qhe	7156 kWh	7956 kWh