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Summary of	CTC EcoAir 610M	Reg. No.	012-SC0516-18
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 610M		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		

Model: CTC EcoAir 610M

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.88 kW	4.67 kW
El input	1.16 kW	1.47 kW
COP	5.06	3.17
Indoor water flow rate	0.99 m³/h	0.50 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	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	189 %	143 %
Prated	6.00 kW	6.60 kW
SCOP	4.81	3.64
Tbiv	-9 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.61 kW	5.89 kW
COP Tj = -7°C	3.03	2.03
Pdh Tj = +2°C	3.46 kW	3.62 kW
COP Tj = +2°C	5.14	3.81
Pdh Tj = +7°C	2.45 kW	2.43 kW
COP Tj = +7°C	5.83	4.86
Pdh Tj = 12°C	2.92 kW	2.83 kW
COP Tj = 12°C	7.27	5.90
Pdh Tj = Tbiv	5.88 kW	5.89 kW
COP Tj = Tbiv	2.66	2.03

Pdh Tj = TOL	5.71 kW	5.33 kW
COP Tj = TOL	2.59	1.77
Cdh	0.98	0.98
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.29 kW	1.27 kW
Annual energy consumption Qhe	2579 kWh	3743 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	160 %	124 %
Prated	6.50 kW	6.50 kW

SCOP	4.08	3.17
Tbiv	-14 °C	-13 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.29 kW	4.04 kW
COP Tj = -7°C	3.61	2.66
Pdh Tj = +2°C	2.39 kW	2.34 kW
COP Tj = +2°C	5.08	4.11
Pdh Tj = +7°C	2.46 kW	2.44 kW
COP Tj = +7°C	6.00	5.08
Pdh Tj = 12°C	2.94 kW	2.86 kW
COP Tj = 12°C	7.13	6.08
Pdh Tj = Tbiv	5.15 kW	5.00 kW
COP Tj = Tbiv	2.52	1.91
Pdh Tj = TOL	3.95 kW	3.64 kW
COP Tj = TOL	1.91	1.25
Cdh	0.98	0.98
WTOL	65 °C	65 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	2.55 kW	2.86 kW
Annual energy consumption Qhe	3932 kWh	5052 kWh