

Subtype CTC EcoAir 408

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC EcoAir 408
Registration number	012-057
Heat Pump Type	Outdoor Air/Water
Refrigerant	R407c
Mass of Refrigerant	2.2 kg
Certification Date	17.05.2023
Testing basis	EN 14511:2013, EN 14825:2013, EN12102:2013

Model CTC EcoAir 408 1x230V

Model name	CTC EcoAir 408 1x230V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.83 kW	7.08 kW
El input	1.62 kW	2.28 kW
COP	4.83	3.11

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	154 %	118 %
Prated	6.26 kW	6.37 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-4 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.70 kW	4.50 kW
COP Tj = -7°C	3.07	2.21
Pdh Tj = +2°C	6.20 kW	5.50 kW
COP Tj = +2°C	4.03	2.98
Pdh Tj = +7°C	8.00 kW	7.60 kW
COP Tj = +7°C	5.28	4.09
Pdh Tj = 12°C	9.80 kW	9.00 kW
COP Tj = 12°C	6.58	5.31
Pdh Tj = Tbiv	5.10 kW	4.90 kW

COP Tj = Tbiv	3.30	2.51
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.30 kW	4.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	22 W	7 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	2.40 kW
Annual energy consumption Qhe	3297 kWh	4343 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	133 %	106 %
Prated	4.82 kW	5.66 kW
SCOP	3.40	2.70
Tbiv	-14 °C	-11 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.80 kW	4.60 kW
COP Tj = -7°C	3.22	2.49
Cdh Tj = -7 °C		
Pdh Tj = +2°C	6.30 kW	5.70 kW
COP Tj = +2°C	4.19	3.25
Cdh Tj = +2 °C		
Pdh Tj = +7°C	8.00 kW	7.70 kW
COP Tj = +7°C	5.42	4.40
Cdh Tj = +7 °C		
Pdh Tj = 12°C	9.80 kW	9.60 kW
COP Tj = 12°C	6.55	5.50
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	3.70 kW	4.02 kW
COP Tj = Tbiv	2.55	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	2.70 kW	2.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.90	1.24

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	22 W	7 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.10 kW	3.30 kW
Annual energy consumption Qhe	3494 kWh	5143 kWh
Pdh Tj = -15°C (if TOL	3.67	3.41
COP Tj = -15°C (if TOL	2.55	1.85
Cdh Tj = -15 °C	0.970	0.990

Model CTC EcoAir 408 3x400V

Model name	CTC EcoAir 408 3x400V
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Outdoor Air/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

EN 14511-2 | Heating

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