

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
Testing laboratory	RISE Research Institutes of Sweden

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

	Low temperature	Medium temperature
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