

## Subtype CTC EcoAir 720M

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC EcoAir 720M
Registration number	012-C700371
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.2 kg
Certification Date	07.05.2025
Testing basis	EN 14511:2022, EN 14825:2022, EN 12102:2022
Testing laboratory	Danish Technological Institute (DTI), DK

## Model CTC EcoAir 720M

Model name	CTC EcoAir 720M
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Colder
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	10.78 kW	10.09 kW
El input	2.14 kW	2.98 kW
COP	5.04	3.39

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	211 %	161 %
Prated	11.60 kW	12.20 kW
SCOP	5.35	4.09
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.14 kW	10.76 kW
COP Tj = -7°C	3.35	2.43
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	6.44 kW	6.55 kW
COP Tj = +2°C	5.22	4.00
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.68 kW	4.53 kW

COP Tj = +7°C	6.97	5.50
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.38 kW	5.26 kW
COP Tj = 12°C	8.65	6.82
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	11.92 kW	11.90 kW
COP Tj = Tbiv	2.78	2.01
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	11.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.01
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	4483 kWh	6159 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	164 %	134 %
Prated	15.50 kW	15.00 kW
SCOP	4.20	3.42
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.43 kW	9.04 kW
COP Tj = -7°C	3.47	2.78
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	5.92 kW	5.38 kW
COP Tj = +2°C	5.41	4.37
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	4.52 kW	4.38 kW
COP Tj = +7°C	7.13	5.65
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.16 kW	5.07 kW
COP Tj = 12°C	8.28	6.80
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	12.51 kW	12.18 kW

COP Tj = Tbiv	2.22	1.85
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.22 kW	4.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.21	1.61
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	10.30 kW	10.20 kW
Annual energy consumption Qhe	9100 kWh	10817 kWh
Pdh Tj = -15°C (if TOL	12.51	12.18
COP Tj = -15°C (if TOL	2.22	1.85
Cdh Tj = -15 °C	1.000	1.000

#### EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

#### EN 14825 | Warmer Climate

	Low temperature	Medium temperature
$\eta_s$	250 %	188 %
Prated	15.20 kW	15.60 kW
SCOP	6.33	4.76
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	15.08 kW	15.55 kW
COP Tj = +2°C	2.57	2.09
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	9.69 kW	9.86 kW
COP Tj = +7°C	5.50	3.99
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.14 kW	5.00 kW
COP Tj = 12°C	8.46	6.49
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	15.08 kW	15.55 kW
COP Tj = Tbiv	2.57	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.08 kW	15.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	2.09

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	17 W	17 W
PTO	17 W	17 W
PSB	17 W	17 W
PCK	16 W	16 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3208 kWh	4375 kWh