

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	CTC EcoAir 420	Reg. No.	012-060
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	DTI		
Subtype title	CTC EcoAir 420		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass Of Refrigerant	3.5 kg		

Model: CTC EcoAir 420 3x400V

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	18.72 kW	15.94 kW
El input	4.05 kW	5.45 kW
COP	4.62	2.92
Indoor water flow rate	3.25 m ³ /h	1.71 m ³ /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

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EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	145 %	119 %
Prated	13.88 kW	14.20 kW
SCOP	3.70	3.10
Tbiv	-6 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.50 kW	10.90 kW
COP Tj = -7°C	3.07	2.35
Pdh Tj = +2°C	14.00 kW	13.40 kW
COP Tj = +2°C	3.72	2.97
Pdh Tj = +7°C	17.70 kW	17.30 kW
COP Tj = +7°C	4.64	3.81
Pdh Tj = 12°C	21.40 kW	20.30 kW
COP Tj = 12°C	5.56	4.62
Pdh Tj = Tbiv	11.50 kW	11.50 kW
COP Tj = Tbiv	3.15	2.49

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Pdh Tj = TOL	10.50 kW	10.00 kW
COP Tj = TOL	2.82	2.10
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	68 W	20 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	3.40 kW	4.30 kW
Annual energy consumption Qhe	7739 kWh	9646 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	66 dB(A)	66 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	129 %	107 %
Prated	11.91 kW	11.14 kW

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SCOP	3.30	2.80
Tbiv	-14 °C	-14 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.60 kW	11.00 kW
COP Tj = -7°C	3.20	2.52
Pdh Tj = +2°C	14.10 kW	13.60 kW
COP Tj = +2°C	3.84	3.15
Pdh Tj = +7°C	17.80 kW	17.40 kW
COP Tj = +7°C	4.74	4.01
Pdh Tj = 12°C	21.30 kW	20.50 kW
COP Tj = 12°C	5.54	4.76
Pdh Tj = Tbiv	9.10 kW	8.50 kW
COP Tj = Tbiv	2.63	1.98
Pdh Tj = TOL	6.80 kW	6.10 kW
COP Tj = TOL	2.04	1.44
Cdh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	68 W	20 W
PSB	18 W	18 W
PCK	0 W	0 W

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	5.00 kW	4.90 kW
Annual energy consumption Q _{he}	8876 kWh	9970 kWh