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#### **Login**

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	RISE CERT		
Subtype title	CTC EcoAir 420	CTC EcoAir 420		
Heat Pump Type	Outdoor Air/Water	Outdoor Air/Water		
Refrigerant	R407c	R407c		
Mass of Refrigerant	3.5 kg	3.5 kg		



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# Model: CTC EcoAir 420 3x400V

Configure model		
Model name	CTC EcoAir 420 3x400V	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	18.72 kW	15.94 kW	
El input	4.05 kW	5.45 kW	
СОР	4.62	2.92	

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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	10.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.82	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
РТО	68 W	20 W
PSB	18 W	18 W
PCK	o 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
$\eta_{S}$	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
$COP Tj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	6.80 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.04	1.44
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
РТО	68 W	20 W
PSB	18 W	18 W
РСК	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 Qhe	8876 kWh	9970 kWh