Login

Summary of	CTC EcoPart 414	Reg. No.	012-066
Certificate Holder			
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Subtype title	CTC EcoPart 414		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.7 kg		

Model: CTC EcoPart 414 1x230V

Configure model	
Model name	CTC EcoPart 414 1x230V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	14.51 kW	13.45 kW
El input	3.19 kW	4.32 kW
COP	4.55	3.11

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	174 %	137 %
Prated	16.47 kW	16.12 kW
SCOP	4.60	3.60
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.60 kW	13.60 kW
COP Tj = -7°C	4.64	3.29
Pdh Tj = +2°C	14.70 kW	13.90 kW
COP Tj = +2°C	4.81	3.68
Pdh Tj = +7°C	14.80 kW	14.20 kW
COP Tj = +7°C	4.97	4.03
Pdh Tj = 12°C	14.90 kW	14.40 kW
COP Tj = 12°C	5.13	4.37
Pdh Tj = Tbiv	14.60 kW	13.60 kW
COP Tj = Tbiv	4.64	3.34

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.51 kW	13.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	3.11
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	35 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7467 kWh	9158 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	176 %	140 %
Prated	16.30 kW	15.19 kW

SCOP	4.60	3.70
Tbiv	-18 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	14.70 kW	13.80 kW
COP Tj = -7°C	4.84	3.59
Pdh Tj = +2°C	14.80 kW	14.10 kW
COP Tj = +2°C	4.98	3.94
Pdh Tj = +7°C	14.90 kW	14.30 kW
COP Tj = +7°C	5.08	4.26
Pdh Tj = 12°C	14.90 kW	14.50 kW
COP Tj = 12°C	5.11	4.49
Pdh Tj = Tbiv	14.60 kW	13.60 kW
COP Tj = Tbiv	4.67	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	14.51 kW	13.45 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	3.11
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	32 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.80 kW	1.70 kW
Annual energy consumption Qhe	8758 kWh	10139 kWh

Model: CTC EcoPart 414 3x400V

Configure model	
Model name	CTC EcoPart 414 3x400V
Application	Heating (medium temp)
Units	Indoor
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	14.51 kW	13.45 kW
El input	3.19 kW	4.32 kW
COP	4.55	3.11

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	53 dB(A)	53 dB(A)

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	Low temperature	**Medium temperature**
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Annual energy consumption Qhe	8758 kWh	10139 kWh