Login

Summary of	CTC EcoPart 406	Reg. No.	012-069
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 406		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	1.9 kg		

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Model: CTC EcoPart 406 1x230V

Configure model	
Model name	CTC EcoPart 406 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	5.90 kW	5.17 kW
El input	1.29 kW	1.87 kW
COP	4.57	2.76

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

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EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	130 %
Prated	6.71 kW	6.26 kW
SCOP	4.68	3.45
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.30 kW
COP Tj = -7°C	4.67	3.10
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.88	3.52
Pdh Tj = +7°C	6.10 kW	5.60 kW
COP Tj = +7°C	5.06	3.91
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	5.25	4.32
Pdh Tj = Tbiv	5.90 kW	5.30 kW
COP Tj = Tbiv	4.67	3.16

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	5 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.10 kW
Annual energy consumption Qhe	2967 kWh	3743 kWh

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	183 %	133 %
Prated	6.45 kW	5.88 kW

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SCOP	4.80	3.50
Tbiv	-20 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.00 kW	5.40 kW
COP Tj = -7°C	4.90	3.42
Pdh Tj = +2°C	6.10 kW	5.60 kW
COP Tj = +2°C	5.07	3.82
Pdh Tj = +7°C	6.10 kW	5.70 kW
COP Tj = +7°C	2.20	4.19
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	5.22	4.46
Pdh Tj = Tbiv	5.90 kW	5.30 kW
COP Tj = Tbiv	4.67	3.09
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.91
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	0.70 kW
Annual energy consumption Qhe	3332 kWh	4107 kWh

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Model: CTC EcoPart 406 3x400V

Configure model	
Model name	CTC EcoPart 406 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	5.90 kW	5.17 kW
El input	1.29 kW	1.87 kW
COP	4.57	2.76

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

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