Login

Summary of	CTC EcoPart 417	Reg. No.	012-067
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 417		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.7 kg		

Model: CTC EcoPart 417 1x230V

Configure model	
Model name	CTC EcoPart 417 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 14511-4	
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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.87 kW	15.87 kW
El input	4.47 kW	5.17 kW
COP	4.55	3.07

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	176 %	140 %
Prated	17.86 kW	17.29 kW
SCOP	4.80	3.70
Tbiv	-20 °C	-19 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	17.10 kW	16.10 kW
COP Tj = -7°C	4.84	3.51
Pdh Tj = +2°C	17.20 kW	16.40 kW
COP Tj = +2°C	5.01	3.89
Pdh Tj = +7°C	17.30 kW	16.60 kW
COP Tj = +7°C	5.13	4.24
Pdh Tj = 12°C	17.30 kW	16.80 kW
COP Tj = 12°C	5.15	4.50
Pdh Tj = Tbiv	16.90 kW	15.90 kW
COP Tj = Tbiv	4.61	3.19

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.87 kW	15.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	3.07
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	27 W	8 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.00 kW	1.40 kW
Annual energy consumption Qhe	8758 kWh	11554 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	181 %	137 %
Prated	19.15 kW	18.03 kW

SCOP	4.70	3.60
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.90 kW	16.00 kW
COP Tj = -7°C	4.64	3.23
Pdh Tj = +2°C	17.10 kW	16.10 kW
COP Tj = +2°C	4.83	3.60
Pdh Tj = +7°C	17.20 kW	16.40 kW
COP Tj = +7°C	5.01	3.97
Pdh Tj = 12°C	17.40 kW	16.70 kW
COP Tj = 12°C	5.18	4.36
Pdh Tj = Tbiv	16.90 kW	16.00 kW
COP Tj = Tbiv	4.64	3.23
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.87 kW	15.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.55	3.07
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	27 W	8 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.30 kW	2.20 kW
Annual energy consumption Qhe	8362 kWh	10286 kWh

Model: CTC EcoPart 417 3x400V

Configure model	
Model name	CTC EcoPart 417 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 14511-4	
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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	16.87 kW	15.87 kW
El input	4.47 kW	5.17 kW
COP	4.55	3.07

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
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Pdh Tj = +7°C	17.30 kW	16.60 kW
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