

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

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		
Name of testing laboratory	RISE		
Subtype title	CTC EcoPart 417		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.7 kg		

Model: CTC EcoPart 417 1x230V

General Data

Power supply	1x230V 50Hz
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Heating

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
Indoor water flow rate	2.76 m ³ /h	1.72 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

Average Climate

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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

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Pdh Tj = TOL	16.87 kW	15.87 kW
COP Tj = TOL	4.55	3.07
Cdh	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

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

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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	16.87 kW	15.87 kW
COP Tj = TOL	4.55	3.07
Cdh	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

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Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	1.00 kW	1.40 kW
Annual energy consumption Q _{he}	8758 kWh	11554 kWh

Model: CTC EcoPart 417 3x400V

General Data

Power supply	3x400V 50Hz
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Heating

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
Indoor water flow rate	2.76 m ³ /h	1.72 m ³ /h

EN 14511-4

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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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