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

Summary of	CTC EcoPart 435	Reg. No.	012-072
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 435		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	5.4 kg		

Model: CTC EcoAir 435 1x230V

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	33.74 kW	31.74 kW
El input	7.42 kW	10.34 kW
COP	4.55	3.07
Indoor water flow rate	6.16 m³/h	3.33 m³/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

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	33.74 kW	31.74 kW
SCOP	4.70	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	33.80 kW	32.00 kW
COP Tj = -7°C	4.64	3.23
Pdh Tj = +2°C	34.20 kW	32.20 kW
COP Tj = +2°C	4.83	3.60
Pdh Tj = +7°C	34.40 kW	32.80 kW
COP Tj = +7°C	5.01	3.97
Pdh Tj = 12°C	34.80 kW	33.40 kW
COP Tj = 12°C	5.18	4.36
Pdh Tj = Tbiv	33.80 kW	32.00 kW
COP Tj = Tbiv	4.64	3.23

Pdh Tj = TOL	33.74 kW	31.74 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	4.60 kW	4.40 kW
Annual energy consumption Qhe	16724 kWh	20572 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	184 %	140 %
Prated	33.70 kW	31.70 kW

SCOP	4.80	3.70
Tbiv	-20 °C	-19 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	34.20 kW	32.20 kW
COP Tj = -7°C	4.84	3.51
Pdh Tj = +2°C	34.40 kW	32.80 kW
COP Tj = +2°C	5.01	3.89
Pdh Tj = +7°C	34.60 kW	33.20 kW
COP Tj = +7°C	5.13	4.24
Pdh Tj = 12°C	34.60 kW	33.60 kW
COP Tj = 12°C	5.15	4.50
Pdh Tj = Tbiv	33.80 kW	31.80 kW
COP Tj = Tbiv	4.61	3.19
Pdh Tj = TOL	33.74 kW	31.74 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	2.00 kW	2.80 kW
Annual energy consumption Qhe	18332 kWh	23108 kWh

Model: CTC EcoPart 435 3x400V

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	33.74 kW	31.74 kW
El input	7.42 kW	10.34 kW
COP	4.55	3.07
Indoor water flow rate	6.16 m³/h	3.33 m³/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

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	33.74 kW	31.74 kW
SCOP	4.70	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	33.80 kW	32.00 kW
COP Tj = -7°C	4.64	3.23
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COP Tj = +2°C	4.83	3.60
Pdh Tj = +7°C	34.40 kW	32.80 kW
COP Tj = +7°C	5.01	3.97
Pdh Tj = 12°C	34.80 kW	33.40 kW
COP Tj = 12°C	5.18	4.36
Pdh Tj = Tbiv	33.80 kW	32.00 kW
COP Tj = Tbiv	4.64	3.23

Pdh Tj = TOL	33.74 kW	31.74 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	4.60 kW	4.40 kW
Annual energy consumption Qhe	16724 kWh	20572 kWh

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Annual energy consumption Qhe	18332 kWh	23108 kWh