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Summary of	CTC EcoPart 435	Reg. No.	012-072
Certificate Holder			
Name	Eneritech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Subtype title	CTC EcoPart 435		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	5.4 kg		

## Model: CTC EcoAir 435 1x230V

Configure model	
Model name	CTC EcoAir 435 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	33.74 kW	31.74 kW
El input	7.42 kW	10.34 kW
COP	4.55	3.07

### Colder 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
$\eta_s$	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

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	33.74 kW	31.74 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	4.55	3.07
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	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 $Q_{he}$	18332 kWh	23108 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	56 dB(A)	56 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	181 %	137 %
Prated	33.74 kW	31.74 kW

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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 or Pdh Tj = Tdesignh if TOL < Tdesignh	33.74 kW	31.74 kW
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.60 kW	4.40 kW
Annual energy consumption Q <sub>he</sub>	16724 kWh	20572 kWh

## Model: CTC EcoPart 435 3x400V

Configure model	
Model name	CTC EcoPart 435 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

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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
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El input	7.42 kW	10.34 kW
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