Login

Summary of	CTC EcoPart 425	Reg. No.	012-068
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 425		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	4.6 kg		

Model: CTC EcoPart 425 1x230V

Configure model	
Model name	CTC EcoPart 425 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	25.06 kW	23.51 kW
El input	5.50 kW	7.62 kW
COP	4.56	3.09

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	50 dB(A)	50 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	182 %	138 %
Prated	25.06 kW	23.51 kW
SCOP	4.80	3.70
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	23.60 kW	22.00 kW
COP Tj = -7°C	4.69	3.25
Pdh Tj = +2°C	23.80 kW	22.40 kW
COP Tj = +2°C	4.88	3.64
Pdh Tj = +7°C	24.00 kW	22.80 kW
COP Tj = +7°C	5.06	4.02
Pdh Tj = 12°C	24.20 kW	23.20 kW
COP Tj = 12°C	5.23	4.40
Pdh Tj = Tbiv	23.60 kW	22.00 kW
COP Tj = Tbiv	4.69	3.25

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.06 kW	23.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.07
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	22 W	5 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.20 kW	3.00 kW
Annual energy consumption Qhe	11628 kWh	14168 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	185 %	141 %
Prated	25.10 kW	23.50 kW

SCOP	4.80	3.70
Tbiv	-20 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	23.80 kW	22.40 kW
COP Tj = -7°C	4.89	3.56
Pdh Tj = +2°C	24.00 kW	22.80 kW
COP Tj = +2°C	5.06	3.94
Pdh Tj = +7°C	24.20 kW	23.20 kW
COP Tj = +7°C	5.18	4.29
Pdh Tj = 12°C	24.20 kW	23.40 kW
COP Tj = 12°C	5.20	4.54
Pdh Tj = Tbiv	23.60 kW	22.00 kW
COP Tj = Tbiv	4.66	3.25
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.06 kW	23.51 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.10
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	22 W	5 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	2.80 kW
Annual energy consumption Qhe	12746 kWh	16390 kWh

Model: CTC EcoPart 425 3x400V

Configure model	
Model name	CTC EcoPart 425 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	25.06 kW	23.51 kW
El input	5.50 kW	7.62 kW
COP	4.56	3.09

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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	Low temperature	**Medium temperature**
Sound power level indoor	50 dB(A)	50 dB(A)

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Pdh Tj = +7°C	24.00 kW	22.80 kW
COP Tj = +7°C	5.06	4.02
Pdh Tj = 12°C	24.20 kW	23.20 kW
COP Tj = 12°C	5.23	4.40
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