Login

Summary of	CTC EcoPart 410	Reg. No.	012-064
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 410		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	1.9 kg		

Model: CTC EcoPart 410 1x230V

Configure model	
Model name	CTC EcoPart 410 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	9.98 kW	9.30 kW
El input	2.17 kW	3.00 kW
COP	4.60	3.10

Colder Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	184 %	141 %
Prated	10.56 kW	10.48 kW
SCOP	4.80	3.70
Tbiv	-20 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	9.50 kW
COP Tj = -7°C	4.89	3.58
Pdh Tj = +2°C	10.20 kW	9.70 kW
COP Tj = +2°C	5.05	3.96
Pdh Tj = +7°C	10.20 kW	9.80 kW
COP Tj = +7°C	5.16	4.29
Pdh Tj = 12°C	10.20 kW	10.00 kW
COP Tj = 12°C	5.19	4.54
Pdh Tj = Tbiv	10.00 kW	9.40 kW
COP Tj = Tbiv	4.66	3.27

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	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	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	1.20 kW
Annual energy consumption Qhe	5414 kWh	6939 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	181 %	138 %
Prated	11.32 kW	10.60 kW

SCOP	4.70	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	9.40 kW
COP Tj = -7°C	4.69	3.28
Pdh Tj = +2°C	10.10 kW	9.50 kW
COP Tj = +2°C	1.88	3.66
Pdh Tj = +7°C	10.20 kW	9.70 kW
COP Tj = +7°C	5.10	4.03
Pdh Tj = 12°C	10.30 kW	9.90 kW
COP Tj = 12°C	5.22	4.41
Pdh Tj = Tbiv	10.00 kW	9.40 kW
COP Tj = Tbiv	4.69	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	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	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.10 kW	1.30 kW
Annual energy consumption Qhe	4944 kWh	5999 kWh

Model: CTC EcoPart 410 3x400V

Configure model	
Model name	CTC EcoPart 410 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	9.98 kW	9.30 kW
El input	2.17 kW	3.00 kW
COP	4.60	3.10

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
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PTO	14 W	3 W
PSB	18 W	18 W
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Supplementary Heater: PSUP	1.10 kW	1.30 kW
Annual energy consumption Qhe	4944 kWh	5999 kWh