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### **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	RISE CERT		
Subtype title	CTC EcoPart 410	CTC EcoPart 410		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R407c	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	
СОР	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
$\eta_{s}$	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
$COP Tj = +7^{\circ}C$	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

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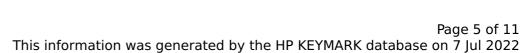
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99
WTOL	65 °C	65 °C
Poff	18 W	18 W
РТО	14 W	3 W
PSB	18 W	18 W
PCK	o w	o 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	
$\eta_{S}$	181 %	138 %	
Prated	11.32 kW	10.60 kW	





SCOP	4.70	3.65
SCOP	4.70	5.05
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = $-7^{\circ}$ C	10.00 kW	9.40 kW
$COPTj = -7^{\circ}C$	4.69	3.28
Pdh Tj = $+2$ °C	10.10 kW	9.50 kW
COP Tj = +2°C	1.88	3.66
Pdh Tj = $+7^{\circ}$ C	10.20 kW	9.70 kW
$COPTj = +7^{\circ}C$	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
РТО	14 W	3 W
PSB	18 W	18 W
РСК	0 W	o w



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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
СОР	4.60	3.10

### Colder Climate



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### Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe

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	Low temperature	Medium temperature	
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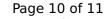
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