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#### This information was generated by the HP KEYMARK database on 7 Jul 2022

#### **Login**

Summary of	CTC GSi 12 3x400V	Reg. No.	012-073	
Certificate Holder	'			
Name	Enertech CTC AB	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26	
City	Ljungby	Country	Sweden	
Certification Body	RISE CERT			
Subtype title	CTC GSi 12 3x400V			
Heat Pump Type	Brine/Water			
Refrigerant	R407c			
Mass of Refrigerant	2.4 kg			
Certification Date	12.06.2017			

# Model: CTC GSi 12 3x400V

Configure model		
Model name	CTC GSi 12 3x400V	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	
Off-peak product	No	
Phase-out Date	25.10.2023	

## 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	6.08 kW	5.24 kW
El input	1.27 kW	1.78 kW
СОР	4.78	2.95

## Colder Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	208 %	155 %	
Prated	11.40 kW	7.20 kW	
SCOP	5.50	4.30	
Tbiv	-22 °C	-22 °C	
TOL	-22 °C	-22 °C	
Pdh Tj = -7°C	7.00 kW	4.46 kW	
COP Tj = -7°C	5.33	4.01	
Pdh Tj = +2°C	4.20 kW	2.70 kW	
COP Tj = +2°C	5.90	4.66	
Pdh Tj = +7°C	2.80 kW	2.40 kW	
COP Tj = +7°C	5.95	5.17	
Pdh Tj = 12°C	2.40 kW	2.40 kW	
COP Tj = 12°C	5.74	5.51	
Pdh Tj = Tbiv	11.50 kW	7.50 kW	
COP Tj = Tbiv	3.93	2.86	

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.45 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.98
WTOL	65 °C	65 °C
Poff	13 W	23 W
PTO	34 W	0 W
PSB	o w	0 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3800 kWh	3444 kWh

# Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	208 %	155 %
Prated	9.81 kW	6.80 kW





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SCOP	5.40	4.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.80 kW	6.00 kW
$COP Tj = -7^{\circ}C$	4.59	3.25
Pdh Tj = $+2$ °C	5.40 kW	3.70 kW
COP Tj = +2°C	5.60	4.18
Pdh Tj = $+7$ °C	3.50 kW	2.40 kW
$COP Tj = +7^{\circ}C$	6.05	4.70
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	6.03	5.34
Pdh Tj = Tbiv	9.80 kW	6.70 kW
COP Tj = Tbiv	4.30	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.94 kW	6.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	23 W	23 W
РТО	0 W	6 W
PSB	o w	0 W
PCK	0 W	o w



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Supplementary Heater: Type of energy input	Electricity	Electricity	
Supplementary Heater: PSUP	0.10 kW	0.10 kW	

3800 kWh Annual energy consumption Qhe 3444 kWh

## Domestic Hot Water (DHW)

## Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	100 %	
СОР	2.50	
Heating up time	1:45 h:min	
Standby power input	59.0 W	
Reference hot water temperature	49.5 °C	
Mixed water at 40°C	235 I	

## **Average Climate**



EN 16147		
Declared load profile	XL	
Efficiency ηDHW	100 %	
СОР	2.50	
Heating up time	1:45 h:min	
Standby power input	59.0 W	
Reference hot water temperature	49.5 °C	
Mixed water at 40°C	235 I	



# Model: CTC EcoPart 612M 3x400V

Configure model			
Model name CTC EcoPart 612M 3x400V			
Application	Heating (medium temp)		
Units	Indoor		
Climate Zone Colder Climate			
Reversibility			
Cooling mode application (optional)	n/a		

General Data			
Power supply 3x400V 50Hz			
Phase-out Date	25.10.2023		

## Heating

EN 14511-4		
	passed	
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Operating range outdoor exchanger/indoor exchanger upper limit/upper limit		
Shutting off the heat transfer medium flow		
Complete power supply failure	passed	

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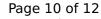
## Colder Climate



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6.03	5.34		
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65 °C	65 °C		
23 W	23 W		
o w	6 W		
o w	o w		
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