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#### **Login**

Summary of	CTC GSi 12 1x230V	Reg. No.	012-074	
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	RISE CERT		
Subtype title	CTC GSi 12 1x230V	CTC GSi 12 1x230V		
Heat Pump Type	Brine/Water	Brine/Water		
Refrigerant	R407c	R407c		
Mass of Refrigerant	2.3 kg			

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# Model: CTC GSi 12 1x230V

Configure model		
Model name	CTC GSi 12 1x230V	
Application	Heating + DHW + low temp	
Units	Indoor	
Climate Zone	Colder Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data		
Power supply	1x230V 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	5.55 kW	6.20 kW
El input	1.29 kW	2.34 kW
СОР	4.31	2.65

### Colder Climate

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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	204 %	152 %
Prated	9.50 kW	11.80 kW
SCOP	5.30	4.00
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.70 kW	7.13 kW
COP Tj = -7°C	5.15	3.66
Pdh Tj = +2°C	3.50 kW	4.30 kW
COP Tj = +2°C	5.65	4.38
Pdh Tj = $+7^{\circ}$ C	2.40 kW	2.70 kW
$COP Tj = +7^{\circ}C$	6.06	5.04
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	6.06	5.33
Pdh Tj = Tbiv	9.50 kW	11.60 kW
COP Tj = Tbiv	4.21	2.68
COP Tj = Tbiv	4.21	2.68

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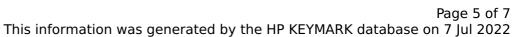
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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.50 kW	11.71 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.23	2.68
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.97
WTOL	65 °C	65 °C
Poff	23 W	23 W
РТО	o w	0 W
PSB	23 W	23 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.10 kW
Annual energy consumption Qhe	4425 kWh	7225 kWh

# Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)

rature Medium temperature
148 %
12.00 kW





SCOP	5.10	3.90
Tbiv	-15 °C	-9 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.90 kW	10.60 kW
COP Tj = -7°C	4.37	2.96
Pdh Tj = +2°C	5.40 kW	6.50 kW
COP Tj = +2°C	5.25	3.90
Pdh Tj = +7°C	3.40 kW	4.20 kW
$COPTj = +7^{\circ}C$	5.75	4.55
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	6.10	5.24
Pdh Tj = Tbiv	11.80 kW	11.60 kW
COP Tj = Tbiv	3.68	2.73
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.00 kW	11.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.03	2.64
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	o w	o w
PSB	23 W	23 W
РСК	o w	o w



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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	4041 kWh	6369 kWh

# Domestic Hot Water (DHW)

## Colder Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	1:49 h:min	
Standby power input	70.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	232	

## **Average Climate**





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	96 %	
СОР	2.40	
Heating up time	1:49 h:min	
Standby power input	23.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	232 I	