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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		
Name of testing laboratory	RISE	RISE		
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	2.3 kg		



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Model: CTC GSi 12 1x230V

General Data		
Power supply	1x230V 50Hz	
Off-peak product	No	

Heating

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	
Indoor water flow rate	0.98 m³/h	0.67 m³/h	

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

EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	148 %
Prated	10.00 kW	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
COP Tj = +7°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

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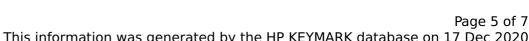
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Pdh Tj = TOL	10.00 kW	11.60 kW
COP Tj = TOL	4.03	2.64
Cdh	0.97	0.98
WTOL	65 °C	65 °C
Poff	23 W	23 W
РТО	o w	0 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.40 kW
Annual energy consumption Qhe	4041 kWh	6369 kWh

Colder Climate

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

EN 14825		
	Low temperature	Medium temperature
η_{s}	204 %	152 %
Prated	9.50 kW	11.80 kW



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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°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	
Pdh Tj = TOL	9.50 kW	11.71 kW	
COP Tj = TOL	4.23	2.68	
Cdh	0.96	0.97	
WTOL	65 °C	65 °C	
Poff	23 W	23 W	
РТО	0 W	0 W	
PSB	23 W	23 W	
PCK	0 W	o w	

CEN heat pump KEYMARK

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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

Domestic Hot Water (DHW)

Average Climate

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	

Colder Climate





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EN 16147	
Declared load profile	XL
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 I
Efficiency ηDHW	96 %