This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	CTC GSi 12 1x230V	Reg. No.	012-074
Certificate Holder			
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Name of testing laboratory	RISE		
Subtype title	CTC GSi 12 1x230V		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.3 kg		

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
COP	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

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

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
PTO	0 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

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°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
PTO	0 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	0.10 kW
Annual energy consumption Qhe	4425 kWh	7225 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	96 %
COP	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 l

Colder Climate

EN 16147

Declared load profile	XL
COP	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 l
Efficiency ηDHW	96 %