

Summary of	CTC GSi 16	Reg. No.	012-SC0819-18
Certificate Holder			
Name	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		
Subtype title	CTC GSi 16		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.2 kg		
Certification Date	28.11.2018		



Model: CTC GSi 16 3x400V

General Data		
Power supply	3x400V 50Hz	
Off-peak product	No	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.55 kW	9.85 kW	
El input	2.62 kW	3.63 kW	
СОР	4.40	2.72	
Indoor water flow rate	2.03 m³/h	1.06 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		
Complete power supply failure	passed	

Average Climate

EN 14825		
	Low temperature	Medium temperature





Inis information was generated by the HP KEYMARK database on 17 Dec 2020			
η_s	201 %	154 %	
Prated	16.00 kW	16.00 kW	
SCOP	5.23	4.04	
Tbiv	-9 °C	-8 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	14.04 kW	14.19 kW	
COP Tj = -7°C	4.17	2.79	
Pdh Tj = +2°C	8.49 kW	8.83 kW	
COP Tj = +2°C	5.36	4.13	
Pdh Tj = $+7^{\circ}$ C	5.61 kW	5.50 kW	
$COP Tj = +7^{\circ}C$	5.87	4.89	
Pdh Tj = 12°C	4.55 kW	4.39 kW	
COP Tj = 12°C	6.03	5.14	
Pdh Tj = Tbiv	15.27 kW	14.58 kW	
COP Tj = Tbiv	3.88	2.70	
Pdh Tj = TOL	15.60 kW	14.34 kW	
COP Tj = TOL	3.77	2.57	
Cdh	0.99	0.99	
WTOL	65 °C	65 °C	
Poff	20 W	20 W	
РТО	20 W	20 W	





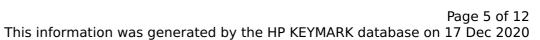
PSB	20 W	20 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.40 kW	1.66 kW
Annual energy consumption Qhe	6321 kWh	8176 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

Colder Climate

	Low temperature	Medium temperature
η_{s}	210 %	161 %
Prated	16.00 kW	16.00 kW
SCOP	5.45	4.22
Tbiv	-21 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.89 kW	9.98 kW
COP Tj = -7°C	5.22	3.79
Pdh Tj = +2°C	5.88 kW	5.92 kW

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This information was go	Theracea by the fill RETT	ATTR database on 17 Dec 202
COP Tj = +2°C	5.93	4.78
Pdh Tj = +7°C	4.45 kW	4.46 kW
$COP Tj = +7^{\circ}C$	6.07	5.31
Pdh Tj = 12°C	4.39 kW	4.46 kW
COP Tj = 12°C	5.76	5.31
Pdh Tj = Tbiv	15.51 kW	14.27 kW
COP Tj = Tbiv	3.77	2.76
Pdh Tj = TOL	15.60 kW	14.34 kW
COP Tj = TOL	3.77	2.57
Cdh	0.99	0.99
WTOL	65 °C	65 °C
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РТО	20 W	20 W
PSB	20 W	20 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.40 kW	1.66 kW
Annual energy consumption Qhe	7239 kWh	9352 kWh



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Sound power level indoor	42 dB(A)	42 dB(A)

Domestic Hot Water (DHW)

Average Climate

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	99 %	
СОР	2.38	
Heating up time	01:04 h:min	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	234	
Standby power input	57.0 W	

Colder Climate



$$\operatorname{\textit{Page}}\ 7$$ of 12 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	99 %	
СОР	2.38	
Heating up time	01:04 h:min	
Reference hot water temperature	50.0 °C	
Mixed water at 40°C	234	
Standby power input	57.0 W	



Model: CTC EcoPart 616M 3x400V

General Data		
Power supply	3x400V 50Hz	

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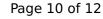
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