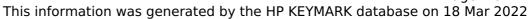


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Login

Summary of	CTC GSi 616	Reg. No.	012- C700088
Certificate Holder			
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Subtype title	CTC GSi 616		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.2 kg		
Certification Date	30.11.2020		
Testing basis	HP Keymark Scheme 2018		





Model: CTC GSi 616

Configure model		
Model name	CTC GSi 616	
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

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

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

Average Climate

EN 14825





	Low temperature	Medium temperature
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
$COP Tj = +2^{\circ}C$	5.36	4.13
Pdh Tj = $+7^{\circ}$ C	5.61 kW	5.50 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	15.60 kW	14.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.77	2.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	20 W	20 W





PTO	20 W	20 W
PSB	20 W	20 W
PCK	o w	0 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

EN 14825		
	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

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5.88 kW	5.92 kW
5.93	4.78
4.45 kW	4.46 kW
6.07	5.31
4.39 kW	4.46 kW
5.76	5.31
15.51 kW	14.27 kW
3.77	2.76
15.60 kW	14.34 kW
3.77	2.57
0.99	0.99
65 °C	65 °C
20 W	20 W
20 W	20 W
20 W	20 W
0 W	0 W
Electricity	Electricity
0.40 kW	1.66 kW
7239 kWh	9352 kWh
	5.93 4.45 kW 6.07 4.39 kW 5.76 15.51 kW 3.77 15.60 kW 3.77 0.99 65 °C 20 W 20 W 20 W Electricity 0.40 kW



EN 12102-1		
	Low temperature	Medium temperature
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



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

Configure model		
Model name CTC EcoPart 616M		
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone Colder Climate		
Reversibility No		
Cooling mode application (optional) n/a		

General Data		
Power supply	3x400V 50Hz	

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	

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

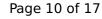
Average Climate

EN 14825		
	Low temperature	Medium temperature





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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°C	5.61 kW	5.50 kW
$COPTj = +7^{\circ}C$	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 or Pdh Tj = Tdesignh if TOL < Tdesignh	15.60 kW	14.34 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.77	2.57
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	0.99
WTOL	65 °C	65 °C
Poff	20 W	20 W
РТО	20 W	20 W
	1	





PSB	20 W	20 W
PCK	o w	0 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)

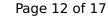
Colder Climate

EN 14825		
	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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COP Tj = +2°C	5.93	4.78
Pdh Tj = +7°C	4.45 kW	4.46 kW
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COP Tj = Tbiv	3.77	2.76
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	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	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





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



Model: CTC EcoPart i616M

Configure model			
Model name CTC EcoPart i616M			
Application	Heating (medium temp)		
Units Indoor			
Climate Zone Colder Climate			
Reversibility No			
Cooling mode application (optional)	n/a		

General Data		
Power supply	3x400V 50Hz	

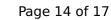
Heating

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	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	

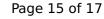
Average Climate

EN 14825		
	Low temperature	Medium temperature





	<u> </u>	
η_{s}	201 %	154 %
Prated	16.00 kW	16.00 kW
SCOP	5.23	4.04
Tbiv	-9 °C	-8 °C
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РТО	20 W	20 W
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PSB	20 W	20 W
PCK	o w	0 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

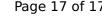
EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	42 dB(A)	42 dB(A)	

Colder Climate

Low temperature Medium temper			
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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WTOL	65 °C	65 °C		
Poff	20 W	20 W		
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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EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	42 dB(A)	42 dB(A)	