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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
COP	4.40	2.72

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed

## Average Climate

### EN 14825

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	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	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
COP Tj = +7°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

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PTO	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 Q <sub>he</sub>	6321 kWh	8176 kWh

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

## Colder Climate

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	210 %	161 %
Prated	16.00 kW	16.00 kW
SCOP	5.45	4.22
T <sub>biv</sub>	-21 °C	-18 °C
TOL	-22 °C	-22 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.89 kW	9.98 kW
COP T <sub>j</sub> = -7°C	5.22	3.79

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Pdh Tj = +2°C	5.88 kW	5.92 kW
COP Tj = +2°C	5.93	4.78
Pdh Tj = +7°C	4.45 kW	4.46 kW
COP Tj = +7°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 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	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

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	99 %
COP	2.38
Heating up time	01:04 h:min
Reference hot water temperature	50.0 °C
Mixed water at 40°C	234 l
Standby power input	57.0 W

### Colder Climate

<b>EN 16147</b>	
Declared load profile	XL
Efficiency $\eta_{DHW}$	99 %
COP	2.38
Heating up time	01:04 h:min
Reference hot water temperature	50.0 °C
Mixed water at 40°C	234 l
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
COP	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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Pdh Tj = -7°C	14.04 kW	14.19 kW
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Poff	20 W	20 W
PTO	20 W	20 W

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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	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
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<b>EN 12102-1</b>		
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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

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	Low temperature	Medium temperature
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