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Login

Summary of	CTC GSi 12 3x400V	Reg. No.	012-073
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 12 3x400V		
Heat Pump Type	Brine/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.4 kg		
Certification Date	12.06.2017		

Model: CTC GSi 12 3x400V

Configure model	
Model name	CTC GSi 12 3x400V
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
Phase-out Date	25.10.2023

Heating

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

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.08 kW	5.24 kW
El input	1.27 kW	1.78 kW
COP	4.78	2.95

Colder Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	208 %	155 %
Prated	11.40 kW	7.20 kW
SCOP	5.50	4.30
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	7.00 kW	4.46 kW
COP Tj = -7°C	5.33	4.01
Pdh Tj = +2°C	4.20 kW	2.70 kW
COP Tj = +2°C	5.90	4.66
Pdh Tj = +7°C	2.80 kW	2.40 kW
COP Tj = +7°C	5.95	5.17
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	5.74	5.51
Pdh Tj = Tbiv	11.50 kW	7.50 kW
COP Tj = Tbiv	3.93	2.86

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.45 kW	7.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.93	2.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.96	0.98
WTOL	65 °C	65 °C
Poff	13 W	23 W
PTO	34 W	0 W
PSB	0 W	0 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3800 kWh	3444 kWh

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	208 %	155 %
Prated	9.81 kW	6.80 kW

SCOP	5.40	4.10
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.80 kW	6.00 kW
COP Tj = -7°C	4.59	3.25
Pdh Tj = +2°C	5.40 kW	3.70 kW
COP Tj = +2°C	5.60	4.18
Pdh Tj = +7°C	3.50 kW	2.40 kW
COP Tj = +7°C	6.05	4.70
Pdh Tj = 12°C	2.40 kW	2.40 kW
COP Tj = 12°C	6.03	5.34
Pdh Tj = Tbiv	9.80 kW	6.70 kW
COP Tj = Tbiv	4.30	3.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.94 kW	6.66 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.28	2.99
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	23 W	23 W
PTO	0 W	6 W
PSB	0 W	0 W
PCK	0 W	0 W

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.10 kW
Annual energy consumption Qhe	3800 kWh	3444 kWh

Domestic Hot Water (DHW)

Colder Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.50
Heating up time	1:45 h:min
Standby power input	59.0 W
Reference hot water temperature	49.5 °C
Mixed water at 40°C	235 l

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	100 %
COP	2.50
Heating up time	1:45 h:min
Standby power input	59.0 W
Reference hot water temperature	49.5 °C
Mixed water at 40°C	235 l

Model: CTC EcoPart 612M 3x400V

Configure model	
Model name	CTC EcoPart 612M 3x400V
Application	Heating (medium temp)
Units	Indoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz
Phase-out Date	25.10.2023

Heating

EN 14511-4	
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