

Subtype CTC GSi 608

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC GSi 608
Registration number	012-C700085
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	2.4 kg
Certification Date	30.11.2020
Testing basis	EN 14511:2018, EN 16147:2017, EN 14825:2016, EN12102:2017

Model CTC GSi 608

Model name	CTC GSi 608
Application	Heating + DHW + low temp
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	98 %
COP	2.39
Heating up time	01:58 h:min
Standby power input	79.8 W
Reference hot water temperature	49.8 °C
Mixed water at 40°C	239 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency η_{DHW}	98 %
COP	2.39
Heating up time	01:58 h:min
Standby power input	79.8 W
Reference hot water temperature	49.8 °C
Mixed water at 40°C	239 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	34 dB(A)	34 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
η_s	208 %	159 %
Prated	7.00 kW	7.00 kW
SCOP	5.39	4.17
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.02 kW	6.58 kW
COP Tj = -7°C	4.75	3.02
Cdh Tj = -7 °C	0.98	0.99
Pdh Tj = +2°C	3.61 kW	4.31 kW
COP Tj = +2°C	5.68	4.71
Cdh Tj = +2 °C	0.96	0.97
Pdh Tj = +7°C	2.47 kW	2.30 kW
COP Tj = +7°C	5.97	4.46
Cdh Tj = +7 °C	0.94	0.94
Pdh Tj = 12°C	2.58 kW	2.28 kW
COP Tj = 12°C	6.05	4.86
Cdh Tj = +12 °C	0.95	0.95
Pdh Tj = Tbiv	7.32 kW	6.91 kW
COP Tj = Tbiv	4.56	2.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.32 kW	6.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.97
WTOL	65 °C	65 °C
Poff	23 W	23 W
PTO	23 W	23 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	2683 kWh	3467 kWh

EN 12102-1 Colder Climate		
	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)
EN 14825 Colder Climate		
	Low temperature	Medium temperature
η_s	217 %	162 %

Prated	7.00 kW	7.00 kW
SCOP	5.63	4.24
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.18 kW	4.42 kW
COP Tj = -7°C	5.52	4.01
Cdh Tj = -7 °C	0.97	0.98
Pdh Tj = +2°C	2.70 kW	2.33 kW
COP Tj = +2°C	6.11	4.59
Cdh Tj = +2 °C	0.95	0.96
Pdh Tj = +7°C	2.64 kW	2.35 kW
COP Tj = +7°C	6.14	5.15
Cdh Tj = +7 °C	0.95	0.95
Pdh Tj = 12°C	2.64 kW	2.68 kW
COP Tj = 12°C	6.14	5.92
Cdh Tj = +12 °C	0.95	0.95
Pdh Tj = Tbiv	7.32 kW	6.94 kW
COP Tj = Tbiv	4.56	2.88
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.32 kW	6.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.97
WTOL	65 °C	65 °C
Poff	23 W	23 W
PTO	23 W	23 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	3063 kWh	4065 kWh

Model CTC EcoPart i608M

Model name	CTC EcoPart i608M
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Starting and operating test	passed

EN 14511-2 | Heating

	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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	34 dB(A)	34 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	208 %	159 %
Prated	7.00 kW	7.00 kW
SCOP	5.39	4.17
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.02 kW	6.58 kW
COP Tj = -7°C	4.75	3.02
Cdh Tj = -7 °C	0.980	0.990
Pdh Tj = +2°C	3.61 kW	4.31 kW
COP Tj = +2°C	5.68	4.71
Cdh Tj = +2 °C	0.960	0.970
Pdh Tj = +7°C	2.47 kW	2.30 kW
COP Tj = +7°C	5.97	4.46
Cdh Tj = +7 °C	0.940	0.940

Pdh Tj = 12°C	2.58 kW	2.28 kW
COP Tj = 12°C	6.05	4.86
Cdh Tj = +12 °C	0.950	0.950
Pdh Tj = Tbiv	7.32 kW	6.91 kW
COP Tj = Tbiv	4.56	2.66
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.32 kW	6.87 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970
WTOL	65 °C	65 °C
Poff	23 W	23 W
PTO	23 W	23 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	2683 kWh	3467 kWh

EN 12102-1 | Colder Climate

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Sound power level indoor	34 dB(A)	34 dB(A)

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Pdh Tj = -7°C	4.18 kW	4.42 kW
COP Tj = -7°C	5.52	4.01
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.70 kW	2.33 kW
COP Tj = +2°C	6.11	4.59
Cdh Tj = +2 °C	0.950	0.950
Pdh Tj = +7°C	2.64 kW	2.35 kW
COP Tj = +7°C	6.14	5.92
Cdh Tj = +7 °C	0.950	0.950
Pdh Tj = 12°C	2.64 kW	2.68 kW
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Cdh Tj = +12 °C	0.950	0.950
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.56	2.84
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.970	0.970
WTOL	65 °C	65 °C
Poff	23 W	23 W
PTO	23 W	23 W
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PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
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Annual energy consumption Qhe	3063 kWh	4065 kWh