Subtype CTC GS 608

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC GS 608
Registration number	012-C700090
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.9 kg
Certification Date	30.11.2020
Testing basis	EN 14511:2013, EN16147:2017, EN 14825:2016, EN12102:2013
Testing laboratory	RISE Research Institutes of Sweden

Model CTC GS 608

Model name	CTC GS 608
Application	Heating + DHW
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 ηDHW	111 %
COP	2.78
Heating up time	3:17 h:min
Standby power input	46.0 W
Reference hot water temperature	49.4 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.78
Heating up time	3:17 h:min
Standby power input	46.0 W
Reference hot water temperature	49.4 °C
Mixed water at 40°C	241 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.48 kW	
El input	2.38 kW	
COP	3.14	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	147 %	
Prated	8.63 kW	
SCOP	3.88	
Tbiv	-6 °C	
TOL	-10 °C	
Pdh Tj = -7°C	7.60 kW	
COP Tj = -7°C	3.35	
Pdh Tj = +2°C	7.80 kW	
COP Tj = +2°C	3.94	
Pdh Tj = +7°C	8.00 kW	
COP Tj = +7°C	4.33	
Pdh Tj = 12°C	8.20 kW	
COP Tj = 12°C	4.78	
Pdh Tj = Tbiv	7.60 kW	
COP Tj = Tbiv	3.47	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.14	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	
WTOL	65 °C	
Poff	18 W	
PTO	4 W	
PSB	18 W	
PCK	0 W	
Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	1.20 kW	
Annual energy consumption Qhe	4594 kWh	

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	151 %	
Prated	8.48 kW	
SCOP	3.96	
Tbiv	-18 °C	

TOL	-22 °C
Pdh Tj = -7°C	7.70 kW
COP Tj = -7°C	3.78
Pdh Tj = +2°C	8.00 kW
COP Tj = +2°C	4.28
Pdh Tj = +7°C	8.10 kW
COP Tj = +7°C	4.64
Pdh Tj = 12°C	8.20 kW
COP Tj = 12°C	4.94
Pdh Tj = Tbiv	7.60 kW
COP Tj = Tbiv	3.35
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.14
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99
WTOL	65 °C
Poff	18 W
PTO	4 W
PSB	18 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	5275 kWh

Model CTC GS 608 1x230V

Model name	CTC GS 608 1x230V
Application	Heating + DHW
Units	Indoor
Climate zone (for heating)	Colder Climate
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	No

Brine/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.78
Heating up time	3:17 h:min
Standby power input	46.0 W
Reference hot water temperature	49.4 °C
Mixed water at 40°C	241 l

EN 16147 | Colder Climate

Declared load profile	XL
Efficiency ηDHW	111 %
COP	2.78
Heating up time	3:17 h:min
Standby power input	46.0 W
Reference hot water temperature	49.4 °C
Mixed water at 40°C	241 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	7.48 kW	
El input	2.38 kW	
COP	3.14	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	147 %	
Prated	8.63 kW	
SCOP	3.88	
Tbiv	-6 °C	
TOL	-10 °C	
Pdh Tj = -7°C	7.60 kW	
COP Tj = -7°C	3.35	
Pdh Tj = +2°C	7.80 kW	
COP Tj = +2°C	3.94	
Pdh Tj = +7°C	8.00 kW	
COP Tj = +7°C	4.33	
Pdh Tj = 12°C	8.20 kW	
COP Tj = 12°C	4.78	
Pdh Tj = Tbiv	7.60 kW	
COP Tj = Tbiv	3.47	
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.48 kW	
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.14	
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99	
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Poff	18 W	
PTO	4 W	
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Supplementary Heater: Type of energy input	Electricity	
Supplementary Heater: PSUP	1.20 kW	
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EN 12102-1 | Colder Climate

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EN 14825 | Colder Climate

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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.99
WTOL	65 °C
Poff	18 W
PTO	4 W
PSB	18 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	1.00 kW
Annual energy consumption Qhe	5275 kWh