

Subtype CTC EcoPart 410

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC EcoPart 410
Registration number	012-064
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	1.9 kg
Certification Date	22.05.2023
Testing basis	EN 14511:2013, EN 14825:2013, EN12102:2013

Model CTC EcoPart 410 1x230V

Model name	CTC EcoPart 410 1x230V
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	1x230V 50Hz
Off-peak product	No

Brine/Water

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.98 kW	9.30 kW
El input	2.17 kW	3.00 kW
COP	4.60	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	138 %
Prated	11.32 kW	10.60 kW
SCOP	4.70	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	9.40 kW
COP Tj = -7°C	4.69	3.28
Cdh Tj = -7 °C		
Pdh Tj = +2°C	10.10 kW	9.50 kW
COP Tj = +2°C	1.88	3.66
Cdh Tj = +2 °C		
Pdh Tj = +7°C	10.20 kW	9.70 kW
COP Tj = +7°C	5.10	4.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	10.30 kW	9.90 kW

COP Tj = 12°C	5.22	4.41
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	10.00 kW	9.40 kW
COP Tj = Tbiv	4.69	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.35 kW	1.30 kW
Annual energy consumption Qhe	4944 kWh	5999 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	184 %	141 %
Prated	10.56 kW	10.48 kW
SCOP	4.80	3.70
Tbiv	-20 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	10.10 kW	9.50 kW
COP Tj = -7°C	4.89	3.58
Pdh Tj = +2°C	10.20 kW	9.70 kW
COP Tj = +2°C	5.05	3.96
Pdh Tj = +7°C	10.20 kW	9.80 kW
COP Tj = +7°C	5.16	4.29
Pdh Tj = 12°C	10.20 kW	10.00 kW
COP Tj = 12°C	5.19	4.54
Pdh Tj = Tbiv	10.00 kW	9.40 kW
COP Tj = Tbiv	4.66	3.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99

WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	1.20 kW
Annual energy consumption Qhe	5414 kWh	6939 kWh

Model CTC EcoPart 410 3x400V

Model name	CTC EcoPart 410 3x400V
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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.98 kW	9.30 kW
El input	2.17 kW	3.00 kW
COP	4.60	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	49 dB(A)	49 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	181 %	138 %
Prated	11.32 kW	10.60 kW
SCOP	4.70	3.65
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.00 kW	9.40 kW
COP Tj = -7°C	4.69	3.28
Cdh Tj = -7 °C		
Pdh Tj = +2°C	10.10 kW	9.50 kW
COP Tj = +2°C	1.88	3.66
Cdh Tj = +2 °C		
Pdh Tj = +7°C	10.20 kW	9.70 kW
COP Tj = +7°C	5.10	4.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	10.30 kW	9.90 kW

COP Tj = 12°C	5.22	4.41
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	10.00 kW	9.40 kW
COP Tj = Tbiv	4.69	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.98 kW	9.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.980	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.35 kW	1.30 kW
Annual energy consumption Qhe	4944 kWh	5999 kWh

EN 12102-1 | Colder Climate

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Prated	10.56 kW	10.48 kW
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COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.60	3.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.98	0.99

WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	14 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.60 kW	1.20 kW
Annual energy consumption Qhe	5414 kWh	6939 kWh