

## Subtype CTC EcoPart 406

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC EcoPart 406
Registration number	012-069
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
Testing laboratory	RISE Research Institutes of Sweden

## Model CTC EcoPart 406 1x230V

Model name	CTC EcoPart 406 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
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## EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.90 kW	5.17 kW
El input	1.29 kW	1.87 kW
COP	4.57	2.76

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	6.71 kW	6.26 kW
SCOP	4.68	3.45
Tbiv	-7 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.30 kW
COP Tj = -7°C	4.67	3.10
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.88	3.52
Pdh Tj = +7°C	6.10 kW	5.60 kW
COP Tj = +7°C	5.06	3.91
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	5.25	4.32
Pdh Tj = Tbiv	5.90 kW	5.30 kW
COP Tj = Tbiv	4.67	3.16

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.91
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	5 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.10 kW
Annual energy consumption Qhe	2967 kWh	3743 kWh

#### EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

#### EN 14825 | Colder Climate

	Low temperature	Medium temperature
$\eta_s$	183 %	133 %
Prated	6.45 kW	5.88 kW
SCOP	4.80	3.50
Tbiv	-20 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	6.00 kW	5.40 kW
COP Tj = -7°C	4.90	3.42
Cdh Tj = -7 °C		
Pdh Tj = +2°C	6.10 kW	5.60 kW
COP Tj = +2°C	5.07	3.82
Cdh Tj = +2 °C		
Pdh Tj = +7°C	6.10 kW	5.70 kW
COP Tj = +7°C	2.20	4.19
Cdh Tj = +7 °C		
Pdh Tj = 12°C	6.20 kW	5.90 kW
COP Tj = 12°C	5.22	4.46
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	5.90 kW	5.30 kW
COP Tj = Tbiv	4.67	3.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.90 kW	5.17 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	2.91
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	5 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	0.70 kW
Annual energy consumption Qhe	3332 kWh	4107 kWh

## Model CTC EcoPart 406 3x400V

Model name	CTC EcoPart 406 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
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### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.90 kW	5.17 kW
El input	1.29 kW	1.87 kW
COP	4.57	2.76

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	50 dB(A)	50 dB(A)

### EN 14825 | Average Climate

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TOL	-10 °C	-10 °C
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COP Tj = -7°C	4.67	3.10
Pdh Tj = +2°C	6.00 kW	5.50 kW
COP Tj = +2°C	4.88	3.52
Pdh Tj = +7°C	6.10 kW	5.60 kW
COP Tj = +7°C	5.06	3.91
Pdh Tj = 12°C	6.20 kW	5.80 kW
COP Tj = 12°C	5.25	4.32
Pdh Tj = Tbiv	5.90 kW	5.30 kW
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Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.80 kW	1.10 kW
Annual energy consumption Qhe	2967 kWh	3743 kWh

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WTOL	65 °C	65 °C
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PTO	5 W	3 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.55 kW	0.70 kW
Annual energy consumption Qhe	3332 kWh	4107 kWh