

Subtype CTC EcoPart 430

Certificate Holder	CTC AB
Address	Box 309, Näsvägen
ZIP	SE-341 26
City	Ljungby
Country	SE
Certification Body	RISE CERT
Subtype title	CTC EcoPart 430
Registration number	012-071
Heat Pump Type	Brine/Water
Refrigerant	R407c
Mass of Refrigerant	5 kg
Certification Date	11.12.2023
Testing basis	EN 14511:2013, EN 14825:2013, EN 12102:2013
Testing laboratory	RISE Research Institutes of Sweden

Model CTC EcoPart 430 1x230V

Model name	CTC EcoPart 430 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	28.62 kW	26.84 kW
EI input	6.27 kW	8.74 kW
COP	4.58	3.08

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	137 %
Prated	28.62 kW	26.84 kW
SCOP	4.60	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.20 kW	27.20 kW
COP Tj = -7°C	4.64	3.29
Cdh Tj = -7 °C		
Pdh Tj = +2°C	29.40 kW	27.80 kW
COP Tj = +2°C	4.81	3.68
Cdh Tj = +2 °C		
Pdh Tj = +7°C	29.60 kW	28.40 kW
COP Tj = +7°C	4.97	4.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	29.80 kW	28.80 kW

COP Tj = 12°C	5.13	4.37
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	29.20 kW	27.20 kW
COP Tj = Tbiv	4.64	3.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.62 kW	26.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	32 W
PSB	18 W	18 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	14934 kWh	18316 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	176 %	140 %
Prated	28.62 kW	26.84 kW
SCOP	4.60	3.70
Tbiv	-18 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	29.40 kW	27.60 kW
COP Tj = -7°C	4.84	3.59
Cdh Tj = -7 °C		
Pdh Tj = +2°C	29.60 kW	28.20 kW
COP Tj = +2°C	4.98	3.94
Cdh Tj = +2 °C		
Pdh Tj = +7°C	29.80 kW	28.60 kW
COP Tj = +7°C	5.08	4.26
Cdh Tj = +7 °C		
Pdh Tj = 12°C	29.80 kW	29.00 kW
COP Tj = 12°C	5.11	4.49
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	29.20 kW	27.20 kW
COP Tj = Tbiv	4.67	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.62 kW	26.84 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.58	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	32 W
PSB	18 W	18 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	15539 kWh	20278 kWh

Model CTC EcoPart 430 3x400V

Model name	CTC EcoPart 430 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	28.62 kW	26.84 kW
EI input	6.27 kW	8.74 kW
COP	4.58	3.08

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	137 %
Prated	28.62 kW	26.84 kW
SCOP	4.60	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	29.20 kW	27.20 kW
COP Tj = -7°C	4.64	3.29
Cdh Tj = -7 °C		
Pdh Tj = +2°C	29.40 kW	27.80 kW
COP Tj = +2°C	4.81	3.68
Cdh Tj = +2 °C		
Pdh Tj = +7°C	29.60 kW	28.40 kW
COP Tj = +7°C	4.97	4.03
Cdh Tj = +7 °C		
Pdh Tj = 12°C	29.80 kW	28.80 kW

COP Tj = 12°C	5.13	4.37
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	29.20 kW	27.20 kW
COP Tj = Tbiv	4.64	3.34
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.62 kW	26.84 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.57	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	32 W
PSB	18 W	18 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	14934 kWh	18316 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	176 %	140 %
Prated	28.62 kW	26.84 kW
SCOP	4.60	3.70
Tbiv	-18 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	29.40 kW	27.60 kW
COP Tj = -7°C	4.84	3.59
Cdh Tj = -7 °C		
Pdh Tj = +2°C	29.60 kW	28.20 kW
COP Tj = +2°C	4.98	3.94
Cdh Tj = +2 °C		
Pdh Tj = +7°C	29.80 kW	28.60 kW
COP Tj = +7°C	5.08	4.26
Cdh Tj = +7 °C		
Pdh Tj = 12°C	29.80 kW	29.00 kW
COP Tj = 12°C	5.11	4.49
Cdh Tj = +12 °C		
Pdh Tj = Tbiv	29.20 kW	27.20 kW
COP Tj = Tbiv	4.67	3.28
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	28.62 kW	26.84 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	4.58	3.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.960	0.990
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	97 W	32 W
PSB	18 W	18 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	15539 kWh	20278 kWh