

This information was generated by the HP KEYMARK database on 18 Mar 2022

[Login](#)

Summary of	CTC EcoAir 406	Reg. No.	012-056
Certificate Holder			
Name	Enertech CTC AB		
Address	Box 309, Näsvägen	Zip	SE-381 26
City	Ljungby	Country	Sweden
Certification Body	RISE CERT		
Subtype title	CTC EcoAir 406		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R407c		
Mass of Refrigerant	2.2 kg		

Model: CTC EcoAir 406 1x230V

Configure model	
Model name	CTC EcoAir 406 1x230V
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.22 kW	5.56 kW
El input	1.28 kW	1.83 kW
COP	4.78	3.03

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	151 %	131 %
Prated	5.08 kW	4.95 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.50 kW
COP Tj = -7°C	3.16	2.13
Pdh Tj = +2°C	4.80 kW	4.40 kW
COP Tj = +2°C	3.92	2.93
Pdh Tj = +7°C	6.40 kW	6.00 kW
COP Tj = +7°C	5.25	3.99
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.66	5.21
Pdh Tj = Tbiv	4.10 kW	3.80 kW
COP Tj = Tbiv	3.35	2.44

This information was generated by the HP KEYMARK database on 18 Mar 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	3.50 kW	3.10 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	2.85	1.82
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.90 kW
Annual energy consumption Q_{he}	2722 kWh	3045 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	131 %	103 %
Prated	4.14 kW	5.14 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

SCOP	3.40	2.70
Tbiv	-13 °C	-9 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.00 kW	3.60 kW
COP Tj = -7°C	3.34	2.49
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.07	3.22
Pdh Tj = +7°C	6.40 kW	6.10 kW
COP Tj = +7°C	5.40	4.34
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.62	5.44
Pdh Tj = Tbiv	3.20 kW	3.40 kW
COP Tj = Tbiv	2.92	2.37
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.90 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.83	1.67
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W

This information was generated by the HP KEYMARK database on 18 Mar 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.20 kW	3.50 kW
Annual energy consumption Q _{he}	3045 kWh	4785 kWh

Model: CTC EcoAir 406 3x400V

Configure model	
Model name	CTC EcoAir 406 3x400V
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	Colder Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.22 kW	5.56 kW
El input	1.28 kW	1.83 kW
COP	4.78	3.03

EN 14511-4	
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	151 %	131 %
Prated	5.08 kW	4.95 kW
SCOP	3.90	3.00
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.90 kW	3.50 kW
COP Tj = -7°C	3.16	2.13
Pdh Tj = +2°C	4.80 kW	4.40 kW
COP Tj = +2°C	3.92	2.93
Pdh Tj = +7°C	6.40 kW	6.00 kW
COP Tj = +7°C	5.25	3.99
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.66	5.21
Pdh Tj = Tbiv	4.10 kW	3.80 kW
COP Tj = Tbiv	3.35	2.44

This information was generated by the HP KEYMARK database on 18 Mar 2022

$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	3.50 kW	3.10 kW
$COP T_j = TOL$ or $COP T_j = T_{designh}$ if $TOL < T_{designh}$	2.85	1.82
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.90 kW
Annual energy consumption Q_{he}	2722 kWh	3045 kWh

Colder Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	56 dB(A)	56 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_s	131 %	103 %
Prated	4.14 kW	5.14 kW

This information was generated by the HP KEYMARK database on 18 Mar 2022

SCOP	3.40	2.70
Tbiv	-13 °C	-9 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.00 kW	3.60 kW
COP Tj = -7°C	3.34	2.49
Pdh Tj = +2°C	4.90 kW	4.50 kW
COP Tj = +2°C	4.07	3.22
Pdh Tj = +7°C	6.40 kW	6.10 kW
COP Tj = +7°C	5.40	4.34
Pdh Tj = 12°C	7.90 kW	7.60 kW
COP Tj = 12°C	6.62	5.44
Pdh Tj = Tbiv	3.20 kW	3.40 kW
COP Tj = Tbiv	2.92	2.37
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.90 kW	1.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.83	1.67
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.97	0.98
WTOL	65 °C	65 °C
Poff	18 W	18 W
PTO	19 W	6 W
PSB	18 W	18 W
PCK	0 W	0 W

This information was generated by the HP KEYMARK database on 18 Mar 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.20 kW	3.50 kW
Annual energy consumption Q _{he}	3045 kWh	4785 kWh