

CTC EcoTouch 500

Output range 20–42 kW



Functions

- Highly efficient and compact heat pump
- Output setting 50% or 100%
- 4.3" colour touchscreen
- Web interface allowing the potential for remote monitoring
- EasyCon – intuitive control software
- Advanced control system with multiple sensors
- COP counter and operating data display
- Cascade control of up to 8 heat pumps
- Heating of domestic hot water with external accumulator tank
- Signal for controlling the speed of the circulation pump
- SG-ready
- Installation connections on the rear
- Unit dimensions (DxWxH): 611x750x1470 mm

Benefits

- Low operating costs thanks to high COP values
- Smart output control for different operating modes
- Innovative control software with mobile control
- Can be integrated with the Internet
- Easy-to-service design
- Shows current and historical COP values
- Casing in white high-gloss finish

A+++: Energy efficiency class for combined systems (incl. WWPR II regulator) heating W10/W55, deviations within the series are possible.

Highly efficient and compact

CTC EcoTouch 500 is a series of powerful and compact heat pumps for heat and hot water. With an output range of 20–42 kW, they are ideal for heating apartment buildings and medium-sized commercial properties.

Performance as required

Two hermetic scroll compressors allow for individual and demand-controlled adjustment of output. The variable compressor operation can adjust the output level to 50 % or 100 %, according to need. To ensure that your savings are as great as possible, the CTC EcoTouch 500 is available in four different output sizes. As a result, it is easy to find a system that suits the needs of your particular property, ensuring an unbeatable investment.

Cascade control included

With the integrated control, up to eight heat pumps can be connected in parallel. As a result, you can achieve a system solution that matches the needs of your property. The system's controlling heat pump can, as standard, control other connected products as needed.

Maximum user-friendliness

The high-quality heat pumps are equipped with a 4.3" touchscreen, a web interface and the EasyCon software. Remote monitoring is simple and convenient using a smartphone, tablet or computer with the EasyCon mobile app.

Technical data

CTC EcoTouch 500 series 20-42 kW	Unit	520	525	534	542
Input power/rated output B0/W35 ¹⁾	kW	4.4/20,2	5.6/25.6	7.5/34.1	9.2/42.4
Output figures according to EN 14511	COP	4.5	4.5	4.4	4.5
Energy efficiency class in heating circuit @ 35/55°C		A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Flow in flow heat source ²⁾ , (B0/W35) ΔT=3K	m ³ /h	5.2	6.6	8.7	10.8
Pressure losses in the evaporator, (30% ethylene glycol)	Kpa	16.67	17.65	19.61	20.59
Water flow in heating system (B0/W35), ΔT=5K,	m ³ /h	3.5	4.4	5.9	7.3
Pressure losses in condenser	Kpa	5.88	6.86	7.84	7.84
Operating limit		B -5/W60; B0/W65			
Compressor		Tandem spiral compressor			
1. Compressor: Sound power according to EN 12102 at B0/W55	dB(A)	53.0	55.0	57.0	54.0
2. Compressor: Sound power according to EN 12102 at B0/W55	dB(A)	58.0	60.0	62.0	59.0

Electrical data

Voltage, compressor		400V 3N~ 50Hz			
Locked rotor current	A	51.5	62.0	75.0	102.0
Locked rotor current with soft-start (standard)	A	26.0	31.0	38.0	51.0
Max operating current	A	2 x 7.4	2 x 9.7	2 x 13.0	2 x 15.3
Main fuse for the heating medium	A	C 20 A	C 25 A	C 32 A	C 32 A
Control fuse for the heating medium	A	B 10 A	B 10 A	B 10 A	B 10 A

Dimensions, weight, connections

Number of spiral compressors		2	2	2	2
Volume compr., filling with oil	l	2x1.24	2x1.24	2x 1.89	2x1.24
Filling volume, refrigerant R410A	kg	3.65	4.0	5.0	5.6
Minimum room volume in m ³ according to EN 378-1	m ³	8.3	9.1	10.2	11.4
Weight of the unit	kg	221	232	265	286
Connections: Heat source/use		R2"α			
Dimensions D x W x H	mm	611 x 750 x 1470			

¹⁾ For the above performance data, the tolerances according to EN 12900 and EN 14511 apply.

²⁾ Heat source (70% water + 30% ethylene glycol).

Dimensions diagram

