

# CTC EcoTouch 500 DT

Output range 51–85 kW



## Functions

- Heat pump for high output requirements
- 4.3" colour touchscreen
- Web interface allowing the potential for remote monitoring
- EasyCon – intuitive control software
- Cascade control of up to 4 heat pumps
- Signal for controlling the speed of the circulation pump
- Advanced control system with multiple sensors
- COP counter and operating data display
- Heating of domestic hot water with external accumulator tank
- Two independent cooling circuits
- Output setting 25%, 50%, 75% or 100%
- Installation connections on the rear
- Unit dimensions (D x W x H): 611x750x1470 mm

## Benefits

- Low operating costs thanks to high COP values
- Innovative control software with mobile control
- Network integration via Ethernet port
- Shows current and historical COP values
- Easy-to-service design
- Casing in high-gloss white finish
- Output setting at 4 levels

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

### Efficient and economical

CTC EcoTouch 500 DT is a series of medium-sized heat pumps that are used in properties with high heating needs. The 51–85 kW output range is covered by three different models. The efficient ground source heating installation achieves the highest COP values, regardless of power output.

### First-class equipment

The standard equipment includes a web interface, a 4.3" colour touchscreen and the innovative EasyCon software. It is therefore possible to control the system conveniently using a smartphone.

### Performance as required

CTC EcoTouch 585 DT is equipped with two pairs of tandem compressors. Using the intelligent EasyCon software, the output can be set at 4 output levels between 25 % and 100 %, as required.

### Highest possible operational reliability

The innovative dual tandem concept with two separate cooling circuits ensures maximum operational reliability for the system. Two independent systems supply a common heating circuit.

# Technical data

CTC EcoTouch 500 DT series   51-85 kW	Unit	550 DT	570 DT	585 DT
Input power/rated output B0/W35 <sup>1)</sup>	kW	11.2/51.2	15.0/68.2	18.4/84.8
Output figures according to EN 14511	COP	4.5	4.4	4.4
Energy efficiency class in heating system @ 35/55 °C		A+++ / A++	A+++ / A++	A+++ / A++
Flow in flow heat source <sup>2)</sup> , (B0/W35) $\Delta T=3K$	m <sup>3</sup> /h	12.6	16.7	20.9
Pressure losses in the evaporator, (30% ethylene glycol)	kPa	30.39	33.34	33.34
Water flow in heating system (B0/W35), $\Delta T=5K$	m <sup>3</sup> /h	8.8	11.7	14.6
Pressure losses in condenser	kPa	17.65	18.36	19.61
Operating limit		B -5/W60; B0/W65		
Compressor		2 x tandem spiral compressors		
1. Compressor: Sound power according to EN 12102 at B0/W55	dB(A)	55.0	57.0	54.0
2. Compressor: Sound power according to EN 12102 at B0/W55	dB(A)	63.0	65.0	62.0

## Electrical data

Voltage, compressor		400V 3N~ 50Hz		
Locked rotor current	A	62.0	75.0	102.0
Locked rotor current with soft-start (optional)	A	31.0	37.5	51.0
Max operating current	A	4 x 9.7	4 x 13.0	4 x 15.3
Main fuse for the heating medium	A	C 50 A	C 63 A	C 80 A

## Dimensions, weight, connections

Number of spiral compressors		4	4	4
Volume compr., filling with oil	l	4 x 1.24	4 x 1.89	4 x 1.77
Filling volume, refrigerant R410A	kg	2 x 2.6	2 x 3.4	2 x 3.7
Minimum room volume in m <sup>3</sup> according to EN 378-1	m <sup>3</sup>	11.8	15.5	16.8
Weight of the unit, without outer panels	kg	305	334	265
Weight, outer panels	kg	40	40	40
Connections: Heat source/use		G2"α, G2"α (connection piece)		
Dimensions D x W x H	mm	611 x 750 x 1470 (with connection piece: depth 711 mm)		

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

<sup>2)</sup> Heat source (70% water + 30% ethylene glycol)

## Dimensions diagram

