CTC EcoTouch 5100

Output range 111–229 kW

Functions

- Heat pump for large output requirements
- Two-stage output control
- 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 units
- Heating of domestic hot water with external accumulator tank
- Signal for controlling the speed of the circulation pump
- Easy-to-service design
- Installation connections on the rear

Benefits

- Low operating costs thanks to high COP values
- Smart output control for different operating modes
- Innovative control software with mobile control
- Shows current and historical COP values
- Anthracite coloured casing with durable powder coating.

A+++

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

High performance values
With an extremely large output range of 111–229 kW, the CTC EcoTouch 5100 series is ideal for use in buildings with large heating needs. The output range is covered by various sizes, making it easy to find a system that meets the needs of your particular property.

Flexible output control included
The CTC EcoTouch 5100 series is equipped with two scroll compressors. Using the intelligent EasyCon software, the output can be set at 2 output levels, i.e. 50 % or 100 %, as required.

Maximum possible efficiency with minimum noise
The casing is made of thick steel plate and is equipped with a highly effective sound insulation. In this way, a low noise level can be guaranteed, even at the highest output level. The L-shaped frame also minimises vibration and noise – quiet efficiency.

Innovative ease of use
The EasyCon software combines technical complexity with intelligent ease of use. Remote monitoring is simple and convenient using a smartphone, tablet or computer with the EasyCon mobile app.

Technical data

CTC EcoTouch 5100 series | 111-229 kW	Unit	5110	5140	5180	5230
Input power/rated output B0/W35, kW (compressor)	kW	23.2/111.1	29.4/140.3	37.4/181.5	47.2/229.0
Output figures according to EN 14511	COP	4.53 (4.78)[3]	4.55 (4.78)[3]	4.61 (4.86)[3]	4.52 (4.85)[3]
Energy efficiency class in heating circuit @ 35/55°C		A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Flow in flow heat source[2] , ΔT=3K	m^3/h	27.8	35.1	45.6	58.0
Pressure losses in the evaporator, (ΔT=3K)	kPa	58.83	57.85	63.74	98.06
Flow in flow heat source[2] , (ΔT=4.5K)	m^3/h	18.5	23.3	30.4	42.7
Pressure losses in the evaporator, (ΔT=4.5K)	kPa	36.28	35.30	39.22	56.87
Water flow in heating system, ΔT=5K, m^3/h	m^3/h	19.2	24.2	30.8	39.4
Pressure losses in condenser, mWS (ΔT=5K)	kPa	24.51	23.53	25.49	38.24
Operating limit		B-5/W59 B0/W60 B5/W64 B10/W64			
Compressor		Hermetically sealed scroll compressor			

Electrical data					
Voltage, compressor		400V 3N~ 50Hz			
Locked rotor current	A	225	272	310	408
Locked rotor current with soft-start [1]	A	113	136	155	204
Max operating current	A	2 x 40	2 x 48.5	2 x 65.4	2 x 82.6
Main fuse for the heating medium	A	2 x C 50	2 x C 63	2 x C 80	2 x C 100
Control fuse for the heating medium	A	B 10	B 10	B 10	B 10

Dimensions, weight, connections					
Volume compr., filling with oil	l	2 x 4.67	2 x 6.8	2 x 6.3	2 x 6.3
Refrigerant quantity, R410A	kg	17.5	20.7	25.5	27.0
Content, heating side	l	21	27	33	33
Content, heat source side	l	21	27	33	33
Weight of the unit	kg	900	1000	1100	1130
Connections: Heat source/use		Flat seat G 2½"a/G 2½"a (according to DIN ISO 228-1)			
Dimensions D x W x H	mm	1076 x 1130 x 1366			

[1] The products in the series are factory fitted with soft-start relay. Model names as follows: 5110 AD, 5148 AD, 5180 AD och 5230 AD.
[2] Heat source (70% water + 30% ethylene glycol).
[3] Output figures, compressor.

Dimensions diagram