

Efficiency at its most beautiful

High-end heat pump | **Industrial Line EcoTouch 5050T**



Industrial Line EcoTouch 5050T | Power range 20 – 56 kW



A+++ Energy efficiency of combined system (incl. WWPR II controller) heating W55, deviations within the series possible.

Powerful and individually applicable

The EcoTouch 5050T is a compact heating system with separate domestic hot water heating. The power range of 20 - 56 kW is ideally suited for use in multi family houses and small commercial properties.

Performance as required

Two fully hermetic scroll compressors allow an individual and demand-oriented power adjustment. The variable operation of the compressors allows a gradation of 50 % of the nominal power.

Cascade control included

With the integrated heat pump controller WWPR 2, 8 heat pumps can be connected in parallel. Without additional controller, the master pump controls the demand-oriented use of the other devices.

Maximum ease of use

The high-quality equipment includes touch display, WebInterface and the EasyCon software. With the EasyCon Mobile App, remote monitoring via Smartphone, tablet or PC is simple and extremely convenient.

Features

- Highly efficient compact heat pump
- Power adjustment 50 % / 100 %
- Colour 4.3" touch display
- Integrated WebInterface for remote monitoring
- Intuitive control software EasyCon
- Sensor system with numerous sensors
- COP counter and display of all operating data
- Cascade control of up to 8 heat pumps
- Domestic water heating with external storage tank
- Chlorine-free refrigerant R410A without ozone depletion
- Signal for the regulation of the speed of the circulation pumps
- SG Ready feature
- Easy to service unit design
- Connections installed on rear
- Unit dimensions (W x H x D): 750 x 1470 x 611 mm

Optional features

- Levelling mat for installation on uneven floors
- Flexible hoses for hydraulic connections
- Foundation support for vibration decoupling
- Controller expansion for:
 - Second heating circuit e.g. for swimming pool heating
 - Use of thermal solar energy
 - Two additional mixing circuits

Highlights

- Low operating costs due to high COP values
- Power adjustment through tandem compressor
- Innovative control software with mobile control
- Fully integrable into the Internet
- Display of running COP values
- Housing in high gloss white or stainless steel look

Technical data | Industrial Line EcoTouch 5050T | Power range 20 - 56 kW

EcoTouch 5050T with R410A		ET 5028.5T	ET 5034.5T	ET 5045.5T	ET 5056.5T
Heat source groundwater¹⁾					
Power input/output W10/W35	kW	4.4/26.8	5.6/34.1	7.7/45.2	9.6/56.4
Coefficient of performance (COP) at W10/W35		6	5.8	5.6	5.6
Space heating energy efficiency ²⁾		A+++	A+++	A+++	A+++
Energy efficiency class of the combined system ³⁾		A+++	A+++	A+++	A+++
Groundwater flow rate	m ³ /h ($\Delta T=3K$)	6.5	8.2	10.8	13.5
Groundwater flow rate, minimum	m ³ /h ⁴⁾ ($\Delta T=6K$)	3.3	4.1	5.4	6.7
Heating water flow rate	m ³ /h ($\Delta T=5K$)	4.6	5.9	7.8	9.7
Operating limit			W10/W65		
Compressor			Tandem scroll		
Power control			50 % / 100 %		

Heat source ground					
Power input/output B0/W35	kW	4.4/20.2	5.6/25.6	7.5/34.1	9.2/42.4
Coefficient of performance (COP) at B0/W35		4.5	4.5	4.4	4.5
Space heating energy efficiency ²⁾		A+++	A+++	A+++	A+++
Energy efficiency class of the combined system ³⁾		A+++	A+++	A+++	A+++
Heat source flow rate ⁵⁾	m ³ /h ($\Delta T=3K$)	5.2	6.6	8.7	10.8
Heating water flow rate	m ³ /h ($\Delta T=5K$)	3.5	4.4	5.9	7.3
Operating limit			B-5/W60; B0/W65		
Compressor			Tandem scroll		
Power control			50 % / 100 %		

Electrical data					
Electric power supply	V, AC, Hz	400, 3, 50			
Starting current	A	51.5	62.0	75.0	102.0
Starting current with soft start	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 on site (compressor)		C 20 A	C 25 A	C 32 A	C 32 A
Control fuse on site		B 10 A	B 10 A	B 10 A	B 10 A

Dimensions, weights, connections					
Number of scroll compressors		2	2	2	2
Weight of unit	kg	221	232	265	286
Connections: Heat source/use		R2"a			
Dimensions W x H x D	mm	750 x 1470 x 611			

Subject to technical changes. Tolerances as per EN 12900 and EN 14511 apply.

¹⁾ Groundwater source heating is to be used with an intermediate circuit; for solutions, please refer to our product range. Our performance data are based on this system configuration. ²⁾ Mean temperature application, average climatic conditions ³⁾ The Waterkotte WWPR controller class III (without room temperature sensor) was considered for the combined system. ⁴⁾ At W10/W35 and $\Delta T=6K$. ⁵⁾ Fluid 70 % water + 30 % ethylene glycol.



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