Efficiency at its best

High-end heat pumps | EcoTouch 5029 Ai

up to
COP 5.1

WATERKOTTE

EcoTouch 5029 Ai | Power range from 5 – 29 kW

up to
COP 5.1

A+++

A+++: Space heating energy efficiency class of the package (with WWPR II controller) at W10/W35. Discrepancies within the model series possible.

Features

- Heat pump for higher capacity
- 4.3 inch colour touch-display
- Integrated web interface for App-control
- Intuitive control software EasyCon
- Central power switch
- Sensor system with numerous sensors
- COP counter and display of all operating data
- Domestic hot water heating available optionally
- Integrated electrical heating element 6 kW
- Chlorine-free refrigerant R410A without ozone depletion
- Speed-controlled circulation pumps of efficiency class A
- Integrated vibration damper Silenter®
- Easy to service unit design
- Connections installed on rear
- Unit dimensions: (W x H x D) 600 x 1470 x 633 mm

Optional features

- Connection set
- Natural cooling (NC) and reversing circuit (RC)
- Starting current damping (400 V)
- Controller extension for:
  - Second heating circuit e.g. for swimming pool heating
  - Use of thermal solar energy
  - 2 additional mixer circuits

Highlights

- Low operating costs due to COP values up to 5.1
- Low noise emission of 43 dB (A)
- Power reserves can be used efficiently
- Touch-display with innovative EasyCon software
- Smartphone control via EasyCon Mobile
- Fully integrated into the Internet
- Indication of current COP value
- Housing in high gloss white
- Optimized footprint 0.38 m²

High performance with minimal noise emission
The EcoTouch 5029 Ai series with a performance spectrum from 5 to 29 kW is suitable for use in buildings with higher heating demand. At COP values up to 5.0 the compact heat pump is as quiet as a refrigerator.

Completely high-end
The EcoTouch 5029 Ai not only impresses with its efficiency, but also by its modern design. The innovative control software EasyCon also allows an intuitive and convenient control.

Space-saving compact heating center
By connecting a water tank from the EcoStock series the EcoTouch 5029 Ai becomes a complete heating system. The footprint of less than 0.38 m² is ideal for a space-saving installation.

Climate control on demand
The EcoTouch 5029 Ai is available in the versions NC for natural cooling with system separation and RC for climate cooling with reversing circuit. Based on your climate-control need the suitable model can be selected.

EasyCon Software | The new type of control

Features of the control unit

- Touch sensitive screen, size 4.3"
- Display of 65,000 colours in format 16:9
- LED backlight
- Hardware architecture 32 bit
- Computer speed 50 x 1.6 MIPS
- Windows CE operating system
- WebInterface NetBase, preinstalled by default
- External access via LAN and USB

Software

- Icon controlled
- Menus based on WATERKOTTE control logic
- Continuous calculation of comprehensive measured values
- Efficient automatic system for heating and cooling mode
- Preprogrammed for additional control circuits such as:
  - Use of thermal solar energy
  - Photovoltaics
  - Second heating circuit e.g. for swimming pool heating
  - and three additional mixer circuits
- Energy management included
- Bivalence point allows alternate and parallel configuration
- Buffer memory for saving configuration data
- Remote control via app EasyCon Mobile
- Automatic screen saver

Ease of use

- Access to central menu items via Quicklinks
- Dynamic display of refrigerant circuit
- Continuous measurement of COP
- Continuous information on system status
- Automatic e-mail in case of malfunctions
- Continuous display of important measured values
- Display of graphics for performance trends
- Use of individual timer program
- Full Internet connection

Touch symbols in colour

As the name suggests, EasyCon makes the operation of your heat pump even easier. The software uses simple, self-explanatory symbols like on a smartphone. The symbols on the colour touch-display of the EcoTouch units require only a light touch.
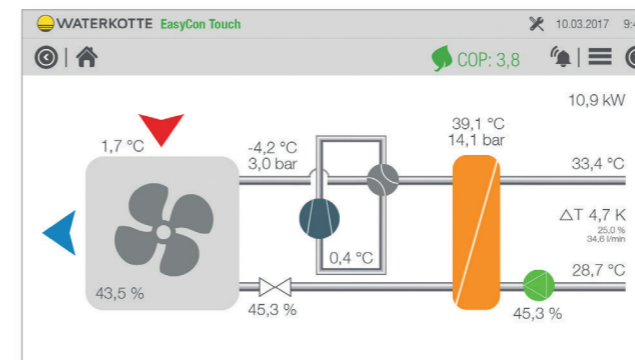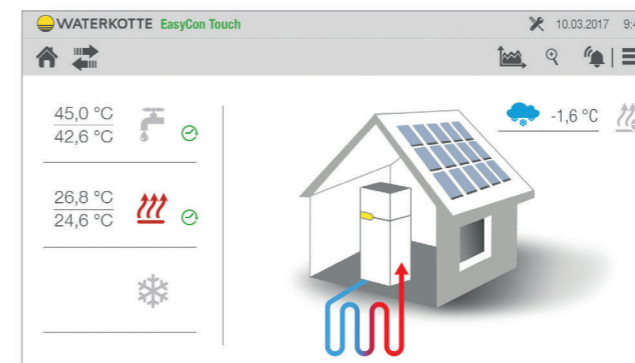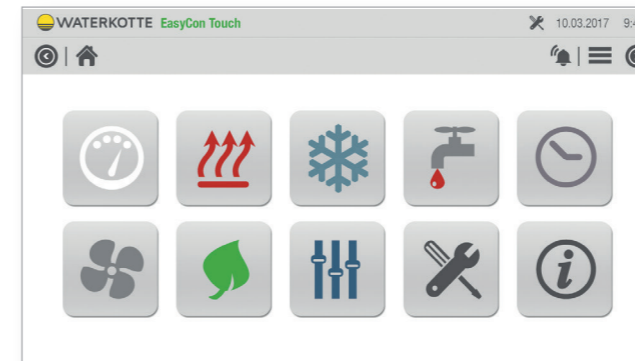
It could not be easier

The symbols, also referred to as icons, are self-explanatory. You therefore always have quick access to all important functions of the unit. Setting the desired temperature or timer program is child's play. Operating a heating system without the operating manual has never been easier.

Comprehensive data evaluation

On the large colour display you can evaluate a variety of data. The actual consumption data, performance data and operating states are clearly displayed in graphics. This is made possible by the data acquisition by the sensor system and the mathematical analysis by EasyCon.

Fully integrated into the Internet

The particularly advanced feature of EasyCon, in addition to icon control, is its full integration into the Internet. As a standard, all heat pumps in the EcoTouch series are connected to the network via the touch-screen. The free app EasyCon Mobile allows you to control your heat pump even while you are on the move.

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EasyCon | Mobile App Control

Features

- Control and monitoring software for heat pumps living area ventilation, energy storage and homeautomation
- Multilingual full version
- Intuitive menu structure
- Available as Apple and Android app
- Can be installed on smartphones and tablet PCs
- Expandable, e.g. for living area ventilation

Technical Requirements

- Available LAN network
- Existing Internet access via provider
- Router with a spare RJ45 connection
- WATERKOTTE EcoTouch products
- WATERKOTTE RemoteBox / SmartBox

Highlights

- Free control software
- Continuous system overview
- Comprehensive display of measured data
- Active system messages from the heat pump

Quick and convenient via Internet

With the EasyCon App for mobile control you can access to your WATERKOTTE products by smartphone or tablet. This is made possible by an Internet connection that you can establish with your heat pump via the application and a web interface.

Mobile control of your heat pump

The menu structure of the application for mobile control is like the control software that is installed on your heat pump. This allows immediate and intuitive navigation. With the software you are able to send mobile control commands, or check data evaluations.

Free of charge and easy to install

EasyCon Mobile is available free of charge as an Apple- and Android- app for your Smartphone or your tablet computer. Simply download from Internet and install. Then enter your heat pump ID, and you are connected.

More ease of use and less costs

The EasyCon applications make the mobile control of your WATERKOTTE products possible. This results in real ease of use. By mobile control you can already turn up the heat from the sofa. Saving costs has never been so much fun.

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Technical data | EcoTouch 5029 Ai

EcoTouch 5029 Ai mit R410A		5007.5Ai	5008.5Ai	5010.5Ai	5014.5Ai	5018.5Ai	5023.5Ai	5029.5Ai
Heat source groundwater[1]								
Power cons./output W10/W35	kW	1.1/6.8	1.3/7.9	1.6/10.4	2.1/14.0	2.7/17.8	3.8/23.5	4.8/29.1
Coefficient of performance (COP) at W10/W35		6.6	6.6	6.9	6.4	6.7	5.9	5.5
Space heating energy efficiency class		A++	A++	A++	A++	A++	A++	A++
Space heating energy efficiency class of the package [2]		A+++	A+++	A+++	A+++	A+++	A+++	A+++
Groundwater flow rate	m³/h (ΔT=3K)	1.6	1.9	2.6	3.5	4.4	5.7	7.1
Groundwater flow rate, minimum	m³/h[3] (ΔT=6K)	0.9	1.0	1.4	1.8	2.3	3.0	3.7
Heating water flow rate	m³/h (ΔT=5K)	1.2	1.4	1.8	2.5	3.1	4.1	5.1
Operating limit					W10/W65			
Ground source heating								
Power cons./output B0/W35	kW	1.1/5.0	1.3/5.9	1.6/7.7	2.1/10.4	2.7/13.2	3.7/17.5	4,6/21.6
Coefficient of performance (COP) at B0/W35		4.7	4.8	5.0	5.1	5.0	4.8	4.5
Space heating energy efficiency class		A++	A++	A++	A++	A++	A++	A++
Space heating energy efficiency class of the package [2]		A++	A++	A++	A++	A++	A++	A++
Heat source flow rate[4]	m³/h (ΔT=3K)	1.2	1.4	1.9	2.6	3.3	4.3	5.4
Heating water flow rate	m³/h (ΔT=5K)	0.9	1.0	1.3	1.8	2.3	3.1	3.8
Max. power consumption (pump heat source)	W	75	75	75	75	130	130	130
Max. power consumption (pump heating)	W	75	75	75	75	130	130	130
Operating limit					B-5/W60 B0/W63			
Compressor					Fully hermetic scroll			
Sound power EN 12102 at B0/W55	dB(A)	44	44	45	46	46	47	47
Electrical data								
Electrical Energy Supply	V, AC, Hz				3, 400, 50 (1, 230, 50)			
Starting current (unreduced)	A	28 (52)	28 (60)	43 (83)	51,5 (108)	62 (130)	75	102
Starting current soft start	A	14 (45)	14 (45)	22 (45)	26 (45)	31 (45)	38	51
Max. operating current.	A	4.8 (10.5)	4.8 (12.8)	6,2 (17.1)	7.4 (22.8)	9.7 (27.9)	13	15.3
Main fuse, compressor (provided by customer)	A	C16A (C25A)	C16A (C25A)	C16A (C25A)	C16A (C32A)	C16A (C32A)	C 16 A	C 20 A
Control fuse (provided by customer)	A	B 10 A	B 10 A	B 10 A	B 10 A	B 10 A	B 10 A	B 10 A
Electrical heating element	kW				6			
Filling capacities, dimensions, weights, connections								
Unit weight [5]	kg	194	194	208	208	219	225	225
Connections: Heat source / use					Flat-sealing G 1 ¼"a / G 1 ¼ "a			
Dimensions W x H x D	mm				600 x 1470 x 633			

Subject to technical change. Tolerances as per EN 12900 and EN 14511 apply to the performance data listed above.

[1] Groundwater source heating is to be used with intermediate circuit; for solutions, please refer to our product range. Our performance data are based on this system configuration. [2] When the composite label WATERKOTTE controller WWPR class III as considered (without room temperature sensor). [3] At W10/W35 and Δt=6K. [4] Fluid (70 % water + 30 % ethylene glycol). [5] NC version +8 kg

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