

Efficiency in its most beautiful form

High-end heat pump | EcoTouch Geo Cube



EcoTouch Geo Cube | Power range from 6 - 19 kW



The new generation of heat pumps

The EcoTouch Geo Cube geothermal heat pump is part of a new WATERKOTTE heat pump generation. Operated with the sustainable refrigerant R290, it is particularly environmentally friendly.

Refrigerant with low GWP

In terms of efficiency, R290 is in no way inferior to other refrigerants. In terms of environmental friendliness, however, R290 has an enormous advantage due to its particularly low global warming potential.

Equally ideal for new builds and refurbishments The new EcoTouch Geo Cube achieves very high flow temperatures of up to 80 °C. In addition to use in new buildings, the product is therefore also ideal for use in refurbishment projects.

Compact design

The EcoTouch Geo Cube outdoor unit contains the complete heat pump technology. The wall-mounted control unit blends into the interior design in a space-saving and modern way.

Features indoor unit

- Wall-mounted hydraulic and control unit
- Ready-to-use and tested heat pump unit
- Colour touch display
- Intuitive EasyCon 2.0 control software
- Appliance dimensions (H x W x D): 720 x 600 x 340 mm

Features outdoor unit

- Ready-to-use and tested heat pump unit
- Environmentally friendly refrigerant R290 with low global warming potential
- Service and installation-friendly device design
- Speed-controlled scroll compressor
- Weatherproof housing
- Electronically controlled expansion valve
- Natural cooling
- Appliance dimensions (W x H x D): 750 x 800 x 750 mm

Optional equipment

- Connection set
- Controller extension for additional mixer circuits

Highlights

- Environmentally friendly refrigerant R290 with low global warming potential
- High-quality control unit
- Low operating costs thanks to COP values of up to 6.6 *
- Graphical representation of all operating situations

* with W10/W35 and 10.3 kW controlled

Technical data | EcoTouch Geo Cube

EcoTouch Geo Cube with R290		7012.7	7019.7
Groundwater as a heat source¹⁾			
Max. Heat output (W10/W35)	kW	11,8	18,9
Power consumption	kW	2,4	3,3
Coefficient of performance (COP) at W10/W35 Groundwater flow rate		5,1	5,7
Groundwater flow rate, minimum	m ³ /h (ΔT=3K)	2,8	4,5
Heating water flow rate	m ³ /h (ΔT=6K)	1,4	2,2
Coefficient of performance (COP) at W10/W35	m ³ /h (ΔT=5K)	2,0	3,3
Space heating energy efficiency ¹⁾		6.5 (6.4 kW regulated)	6.6 (10.3 kW regulated)
Energy efficiency class of the combined system ²⁾ Space heating Limits of use			A+++ A+++ W10/W80
Minimum heat output		2,4	3,6
Ground heat source			
Max. Heat output (B0/W35)	kW	9,1	14,6
Power consumption	kW	2,3	3,3
Coefficient of performance (COP) with B0/W35		4,1	4,4
Heat source flow rate	m ³ /h (ΔT=3K)	2,1	3,5
Heating water flow rate	m ³ /h (ΔT=5K)	1,6	2,5
Coefficient of performance (COP) with B0/W35		4.6 (6.4 kW regulated)	4.8 (9.4 kW regulated)
Space heating energy efficiency ¹⁾			A+++
Energy efficiency class of the combined system ²⁾ Space heating Limits of use			A+++ B0/W80
Minimum heat output (B0/W35)	kW	1,8	2,7
Compressor			Scroll Inverter
Refrigerant			R290
Sound power outdoor unit	dB(A)	42	44
Sound power indoor unit	dB(A)	30	30
Electrical data			
Electrical power supply	V, AC, Hz		400, 3, 50
Control voltage	V, AC, Hz		230, 1, 50
Main fuse (on site)	A		C20A
Control fuse (on site)	A		B16A
Max. Power consumption of heating pump	W		140
Dimensions, weights, connections			
Refrigerant charge (R290) Weight	kg	0,6	1,1
indoor unit	kg	50	50
Weight outdoor unit	kg	230	250
Heating connections Dimensions			1½"
indoor unit W x H x D Dimensions	mm		720 x 600 x 340
outdoor unit W x H x D	mm		750 x 800 x 750

Subject to technical changes. Tolerances according to EN 12900, EN 14511 and EN 12102 apply.

¹⁾ Low temperature application 35 °C, average climate conditions. ²⁾ The WATERKOTTE WWPR controller was taken into account for the composite label (without room temperature sensor).



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