

Natural sustainability Grounded in our technology

Heating, cooling and hot water with geothermal energy



Giving the future a green light

Renewables help to determine where our energy will come from in the future. More and more people are recognising the benefits of green electricity for their homes. We too see electricity as the energy source of the future.

Turning the tide ourselves

Power companies, politicians and society have been seeking viable alternatives to fossil fuels for a long time. Fossil fuels are exhaustible resources that pollute the environment. So why not simply tap into the heat contained in the sun, air, water and ground, and put it to use in your home?

You are bound to have some concerns about the energy efficiency of your house. Perhaps you would like to change to a futureproof energy supply. The largest energy consumer is your heating system: almost 80 % of the energy you consume goes into heating and hot water. There is therefore great potential for an energy transition in your home.

Our land yields plenty of goodness: carrots, radishes, basil, chives, bell peppers and much more. It even takes care of us in winter – our heat pump uses energy from the ground to keep us warm indoors.

Comfort through technology



Give yourself room to feel good

The temperature affects how healthy and alert you are. The temperature range in which you constantly feel at your energetic best is narrow. Our top of the range ground source heat pumps ensure a healthy room climate. If they are equipped with a cooling function, they even do so in summer as well. The appliance cools the heating water that flows through your underfloor heating system, which lowers the room temperature. This increases your living comfort and vitality.

Good reasons to enjoy your home comforts

- › Pleasant room temperatures all year round
- › Easier to relax and feel good
- › Greater vitality and alertness
- › Efficient heating and cooling in one appliance



Your energy efficiency on solid ground

It is constantly warm below the surface of the ground, even when it is bitterly cold outside. You can benefit from this fact with a ground source heat pump. Using liquid brine, the heat pump collects heat from the ground and converts it into energy for heating and hot water.

The ratio of heating output to the required electricity input is measured in heat pumps by the “coefficient of performance” (COP). Your ground source heat pump from STIEBEL ELTRON achieves a COP of up to five. This means that even at temperatures below freezing, it generates up to five parts heat from one part electricity. Since your geothermal probe is installed 40 to 100 metres deep in the ground, the surface area required is comparatively small.

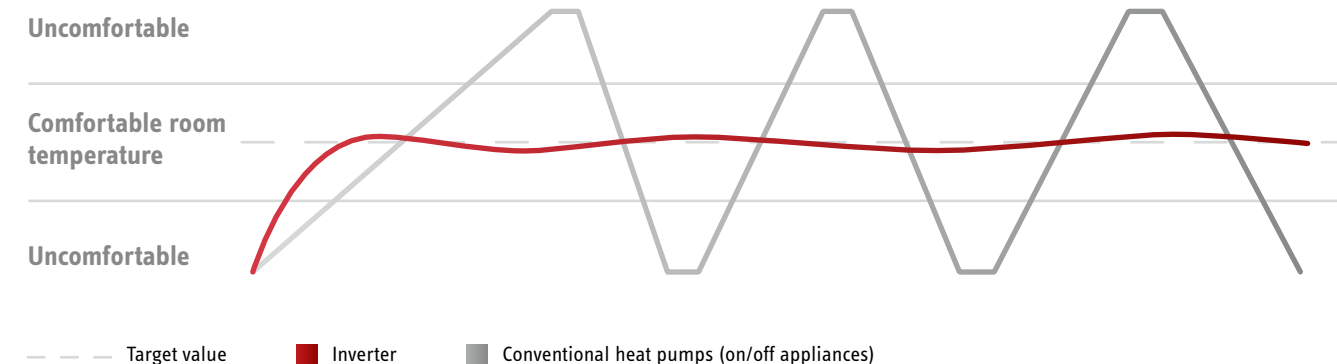
Inverter technology – keeping a good balance

Conventional heat pumps are either on or off. By contrast, our heat pumps with inverter technology are much more sophisticated. They expertly deliver precisely the output needed throughout your home for a comfortable indoor environment. This is not only more energy efficient, but also much less noisy. This is because the fan and compressor operate, on average, with a lower output and are consequently much quieter.

Green technology with impressive properties

- › Output is continuously matched to your requirements
- › Higher efficiency in the partial load range
- › Very quiet
- › Top technology developed from many years of experience
- › Improved heating output and efficient energy consumption

Inverter technology compared to conventional heat pumps



Make the best choice for all your plans

Whether you are working on a new build or a modernisation project, you will find the right solution for every application in our range of ground source heat pumps. Our appliances are suitable for detached houses, apartment buildings and commercial premises, as they are powerful and highly efficient.



Ground source heat pumps

	
	Page 08
Model	WPE-I HK Premium
Energy efficiency class, W55/W35	A+++/A+++
Detached and two-family house	■
Apartment building	■
Non-residential building	
New build modernisation	■ ■
ISG-capable option for:	■
- PV self-consumption ¹⁾	■
- mobile control	■
Heating cooling	■ ■
Integral domestic hot water cylinder	
Indoor installation	■
Outdoor installation	
Can be combined with other heat generators	■
Product class	Premium

¹⁾ For system and country-specific compatibility and availability, please note the information at: www.stiebel-eltron.co.uk

	
	Page 10
Model	WPE-I HW GB Premium
Energy efficiency class, W55/W35	A+++/A+++
Detached and two-family house	■
Apartment building	
Non-residential building	
New build modernisation	■ ■
ISG-capable option for:	■
- PV self-consumption ¹⁾	■
- mobile control	■
Heating cooling	■ -
Integral domestic hot water cylinder	■
Indoor installation	■
Outdoor installation	
Can be combined with other heat generators	
Product class	Premium

	
	Page 15
Model	WPE-I 33-87 H 400 Premium
Energy efficiency class, W55/W35	A+++/A+++
Detached and two-family house	■
Apartment building	■
Non-residential building	■
New build modernisation	■ ■
ISG-capable option for:	■
- PV self-consumption ¹⁾	■
- mobile control	■
Heating cooling	■ -
Integral domestic hot water cylinder	
Indoor installation	■
Outdoor installation	
Can be combined with other heat generators	■
Product class	Premium

Open your door to comfortable living

WPE-I HK Premium inverter ground source heat pump

Boost your home comforts with this ground source heat pump. The appliance with inverter technology draws heat from the ground for your heating and hot water system. In both summer and winter, this ingenious piece of engineering elevates your living comfort to new levels, thanks to its consistent heating output with high flow temperatures.

Make the most of this all-rounder

One of our five output sizes will be just right for you, whether it's for a new building or a modernisation project. The inverter technology guarantees you the exact heating output you want at any given time. This reduces your energy consumption to a minimum, saves you money and even optimises your room climate – all at the same time.

Top product features

- › Ground source heat pump installed indoors for heating, with cooling as an optional extra
- › Optimum output and maximum efficiency thanks to inverter technology
- › Flow temperatures of up to 75 °C for energy efficient heating and high mixed water volumes
- › Future-oriented and eco-friendly refrigerant
- › Optional integration into the home network and control via smartphone



Indoor
installation



New build



Modernisation

Feel the warm glow of a sustainable future

WPE-I HW Premium inverter ground source heat pump

This heat pump allows you to combine comfort and function in one solution. It uses energy from the ground to heat your central heating water and domestic hot water, plus it contains a domestic hot water cylinder. The inverter technology is so efficient at all times of the year that you save energy and reduce your heating bill.

Doing well for the environment

The eco-friendly and safe refrigerant also contributes to a good domestic energy balance. Furthermore, you're all set for a good night's sleep thanks to the appliance's especially low sound levels.

Top product features

- › Indoor heat pump for room heating and domestic hot water heating
- › Compact design saves space
- › Optimum output and maximum efficiency thanks to inverter technology
- › First class domestic hot water convenience and high mixed water volumes thanks to flow temperature of up to 75 °C
- › Futureproof and eco-friendly refrigerant
- › Optional integration into the home network and control via smartphone



Indoor
installation



New build



Modernisation

Quality that packs a punch

WPE-I H 400 Premium inverter ground source heat pump



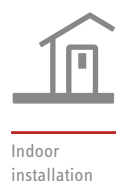
This premium heat pump lives up to the quality implied in its name and gives its all throughout your home. In a cascade, it even supplies apartment buildings and commercial premises with large volumes of central heating water and domestic hot water. Thanks to inverter technology, you can use the appliance in a very versatile way and have the convenient option to control it via smartphone.

Discretion you can count on

We have designed this all-rounder to be so robust that it will give you many years of reliable service, yet still blend quietly into the background.

Top product features

- › Indoor heat pump for room heating and domestic hot water heating
- › Suitable for cascades with high output requirements
- › Optimum output and maximum efficiency thanks to inverter technology
- › High domestic hot water convenience thanks to high flow temperature of up to 65 °C
- › Low energy costs due to exemplary efficiency
- › Particularly quiet operation
- › Optional integration into the home network and control via smartphone



Indoor
installation



New build



Modernisation



Ground source heat pump product comparison

Model		WPE-I 04 HK 230	WPE-I 06 HK 230	WPE-I 08 HK 230	WPE-I 12 HK 230	WPE-I 15 HK 230
		Premium	Premium	Premium	Premium	Premium
Product number		202615	238614	238615	238616	238617
Energy efficiency class		A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating output at B0/W35 (min/max)	kW	1.0 - 4.2	1.0 - 6.6	1.0 - 7.6	2.1 - 12.7	2.1 - 14.8
Output at B0/W35 (EN 14511)	kW	1.96	2.37	2.78	4.19	5.18
Coefficient of performance at B0/W35 (EN 14511)		4.6	4.6	4.67	5.01	4.86
SCOP (EN 14825)		5.07	5.2	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	38 - 40	38 - 43	38 - 45	39 - 46	39 - 47
Max. heating flow temperature	°C	75	75	75	75	75
Height	mm	1369	1369	1369	1369	1369
Width		598	598	598	598	598
Depth		658	658	658	658	658
Weight	kg	180	180	180	190	190
Product class Premium/Plus/Trend		■/-/-	■/-/-	■/-/-	■/-/-	■/-/-

Model		WPE-I 04 HW 230	WPE-I 06 HW 230	WPE-I 08 HW 230	WPE-I 12 HW 230	WPE-I 15 HW 230
		GB Premium	GB Premium	GB Premium	GB Premium	GB Premium
Product number		202637	202638	202639	202640	202641
Energy efficiency class		A+++	A+++	A+++	A+++	A+++
Heating output at B0/W35 (min/max)	kW	1.0 - 4.2	1.0 - 6.6	1.0 - 7.6	2.1 - 12.7	2.1 - 14.8
Output at B0/W35 (EN 14511)	kW	1.96	2.37	2.78	4.19	5.18
Coefficient of performance at B0/W35 (EN 14511)		4.6	4.6	4.67	5.01	5.44
SCOP (EN 14825)		5.07	5.2	5.12	5.59	5.44
Sound power level (EN 12102)	dB(A)	43 - 46	43 - 48	43 - 48	43 - 49	43 - 49
Max. heating flow temperature	°C	75	75	75	75	75
Height	mm	1937	1937	1937	1937	1937
Width		600	600	600	600	600
Depth		703	703	703	703	703
Weight	kg	265	265	265	275	275
Product class Premium/Plus/Trend		■/-/-	■/-/-	■/-/-	■/-/-	■/-/-

Model		WPE-I 33 H 400 Premium	WPE-I 44 H 400 Premium	WPE-I 59 H 400 Premium	WPE-I 87 H 400 Premium
Product number		201412	201413	201414	201415
Energy efficiency category, average climate, W55/W35		A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Heating output at B0/W35 (min/max)	kW	10 - 33	11 - 44	14 - 59	21 - 87
Output at B0/W35 (EN 14511)	kW	20.18	26.71	35.60	52.00
Coefficient of performance at B0/W35 (EN 14511)		4.73	4.6	4.5	4.71
SCOP (EN 14825)		5.55	5.65	5.19	5.17
Sound power level (EN 12102)	dB(A)	41-56	41-56	46-61	46-63
Max. heating flow temperature	°C	65	65	65	65
Height	mm	1723	1723	1742	1742
Width		692	692	900	900
Depth		803	803	848	848
Weight	kg	300	300	430	550
Product class Premium/Plus/Trend		■/-/-	■/-/-	■/-/-	■/-/-

Sustainable comfort

Electricity is the future. With the development of green technologies, we advocate innovative, environmentally responsible and futureproof building services – so that you can enjoy sustainable comfort at home. As a family business, we act for the future – yours and ours.

Since 1924, STIEBEL ELTRON has been synonymous with reliable solutions for domestic hot water, heating, ventilation and cooling. We maintain a clear focus in the energy debate: electricity, preferably harnessed from renewables, is the energy of the future. That is why we rely on approximately 4000 employees around the world for efficient heating solutions with green technologies.

From the design and manufacture of your appliance through to its maintenance, we systematically apply our expertise, strength of innovation and experience – gained from working with customers with high standards, such as yourself, and from the sale of more than two million appliances each year. We have the right solutions to meet every requirement. Solutions designed to raise the level of convenience in your home today and still be up to date tomorrow.

You can see first hand our commitment to green technology by visiting the Energy Campus at our head office in Holzminden, Germany. This training and communication centre is our flagship project for sustainable and resource-efficient construction. It combines the highest standards of architectural and communication quality. As a PlusEnergy building, it generates more energy than it consumes. Come and experience what our name stands for – in theory and practice.



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