

# Natural sustainability Grounded in our technology

Heating, cooling and hot water with geothermal energy







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

# 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.





# 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.

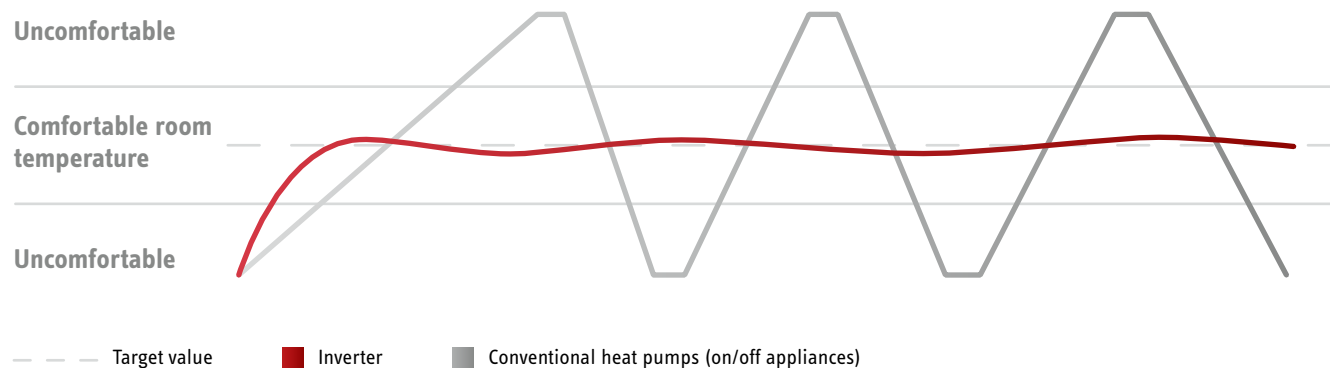
## Inverter technology – keeping a good balance

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



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

<sup>1)</sup> For system and country-specific compatibility and availability, please note the information at: [www.stiebel-eltron.co.uk](http://www.stiebel-eltron.co.uk)



Page 12

WPF S

A++/A+++

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■ | ■

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Plus



Page 13

WPC S GB

A++/A+++

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Plus



Page 15

WPE-I 33-87 H 400  
Premium

A+++/A+++

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Premium







# Open your door to comfortable living

WPE-I H and WPE-I HW 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

- › Indoor heat pump for room heating
- › 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 H and 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





# Place your trust in an absolute top performer

WPF S ground source heat pump



This high performing appliance is exceptionally proficient: it provides your house with a highly efficient supply of heat and hot water. What's more, you can combine it with any of our domestic hot water cylinders. Your contractor will install the appliance quickly and easily, as all key components are already fitted.

#### **Advanced comfort control**

With an innovative heat pump manager, you have precise control over the comfort levels of your room climate at all times.

#### **Top product features**

- › Indoor heat pump for room heating
- › Also suitable for larger buildings
- › First class domestic hot water convenience thanks to flow temperature of up to 65 °C
- › Low energy costs due to exemplary efficiency
- › Excellent COP through optimally matched components and high grade technology



Indoor  
installation



New build



Modernisation

# Superb performance on a minimal footprint

WPC S GB ground source heat pump



This multi-talented appliance gives your efficiency levels a real boost, with a COP of up to five. Its design is as compact as can be, and it comes with all the most important components built in, such as a domestic hot water cylinder with 200 litre capacity. With this heat pump, you therefore save both money and space.

#### Functional design

The heat pump manager is controlled via the backlit display screen and the convenient, intuitive Touch-Wheel.

#### Top product features

- › Indoor heat pump for room heating, domestic hot water heating
- › Compact solution with key components integrated to save space
- › Flow temperatures of up to 65 °C for high domestic hot water convenience
- › Low energy costs due to exemplary efficiency
- › Excellent COP through optimally matched components and high grade technology



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



# Customise your equipment to suit your requirements

With our extensive range of accessories, you can tailor your level of comfort to suit your requirements. Regardless of whether you are using individual appliances or complex systems – we can supply you with everything from one source. All our components are perfectly matched to each other so that you can continue to enjoy your STIEBEL ELTRON products for many years to come.

## WPMsystem

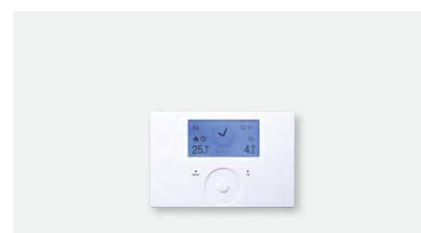
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- › WPM heat pump manager
- › With integral programming unit
- › For controlling extensive functions



- › WPE extension controller
- › To control additional functions
- › With universal differential controller
- › Integration of a stove possible



- › FET Touch-Wheel remote control
- › To set the exact comfort temperature you require
- › With illuminated graphic display
- › Shows the room temperature, room humidity, time and outside temperature

## Ground source heat pump product comparison

Model		WPE-I 04 H 230 Premium	WPE-I 06 H 230 Premium	WPE-I 08 H 230 Premium	WPE-I 12 H 230 Premium	WPE-I 15 H 230 Premium
<b>Product number</b>		<b>202613</b>	<b>238610</b>	<b>238611</b>	<b>238612</b>	<b>238613</b>
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	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 GB Premium	WPE-I 06 HW 230 GB Premium	WPE-I 08 HW 230 GB Premium	WPE-I 12 HW 230 GB Premium	WPE-I 15 HW 230 GB Premium
<b>Product number</b>		<b>202637</b>	<b>202638</b>	<b>202639</b>	<b>202640</b>	<b>202641</b>
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		WPF 05 S	WPF 07 S	WPF 10 S	WPF 13 S
<b>Product number</b>		<b>232922</b>	<b>232923</b>	<b>232924</b>	<b>232925</b>
Energy efficiency class		A++	A++	A++	A++
Output at B0/W35 (EN 14511)	kW	5.88	7.61	10.31	13.01
Coefficient of performance at B0/W35 (EN 14511)		4.78	4.75	4.76	4.75
SCOP (EN 14825)		5.23	5.30	5.20	5.18
Sound power level (EN 12102)	dB(A)	46	50	50	50
Sound pressure level at a distance of 1 m	dB(A)	38	42	42	42
Max. heating flow temperature	°C	60	60	60	60
Height	mm	1319	1319	1319	1319
Width		598	598	598	598
Depth		658	658	658	658
Weight	kg	152	157	169	171
Product class Premium/Plus/Trend		-/■/-	-/■/-	-/■/-	-/■/-

## Ground source heat pump product comparison

Model		WPC 05 S GB	WPC 07 S GB	WPC 10 S GB	WPC 13 S GB
<b>Product number</b>		<b>234308</b>	<b>234309</b>	<b>234310</b>	<b>234311</b>
Energy efficiency class		A++	A++	A++	A++
Energy efficiency class, domestic hot water heating, load profile L		A	A	A	A
Output at B0/W35 (EN 14511)	kW	5.88	7.61	10.31	13.01
Coefficient of performance at B0/W35 (EN 14511)		4.78	4.75	4.76	4.75
SCOP (EN 14825)		5.23	5.30	5.20	5.18
Sound power level (EN 12102)	dB(A)	47	54	54	54
Sound pressure level at a distance of 1 m	dB(A)	36	43	43	43
Max. heating flow temperature	°C	60	60	60	60
Height	mm	1917	1917	1917	1917
Width		600	600	600	600
Depth		703	703	703	703
Weight	kg	246	259	259	283
Rated capacity	l	175	175	162	162
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
<b>Product number</b>		<b>201412</b>	<b>201413</b>	<b>201414</b>	<b>201415</b>
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		■ / - / -	■ / - / -	■ / - / -	■ / - / -



# Recharge your energy with ours

We need energy to live. As a family business, we endeavour to ensure that energy will still be available in tomorrow's world. That is why we advocate environmentally responsible and efficient building services that safeguard investment. 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 3900 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 solution to meet any 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.



**Your local trade partner:**



For new and interesting information on our products, visit  
[www.stiebel-eltron.co.uk](http://www.stiebel-eltron.co.uk) or consult your local trade partner.

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