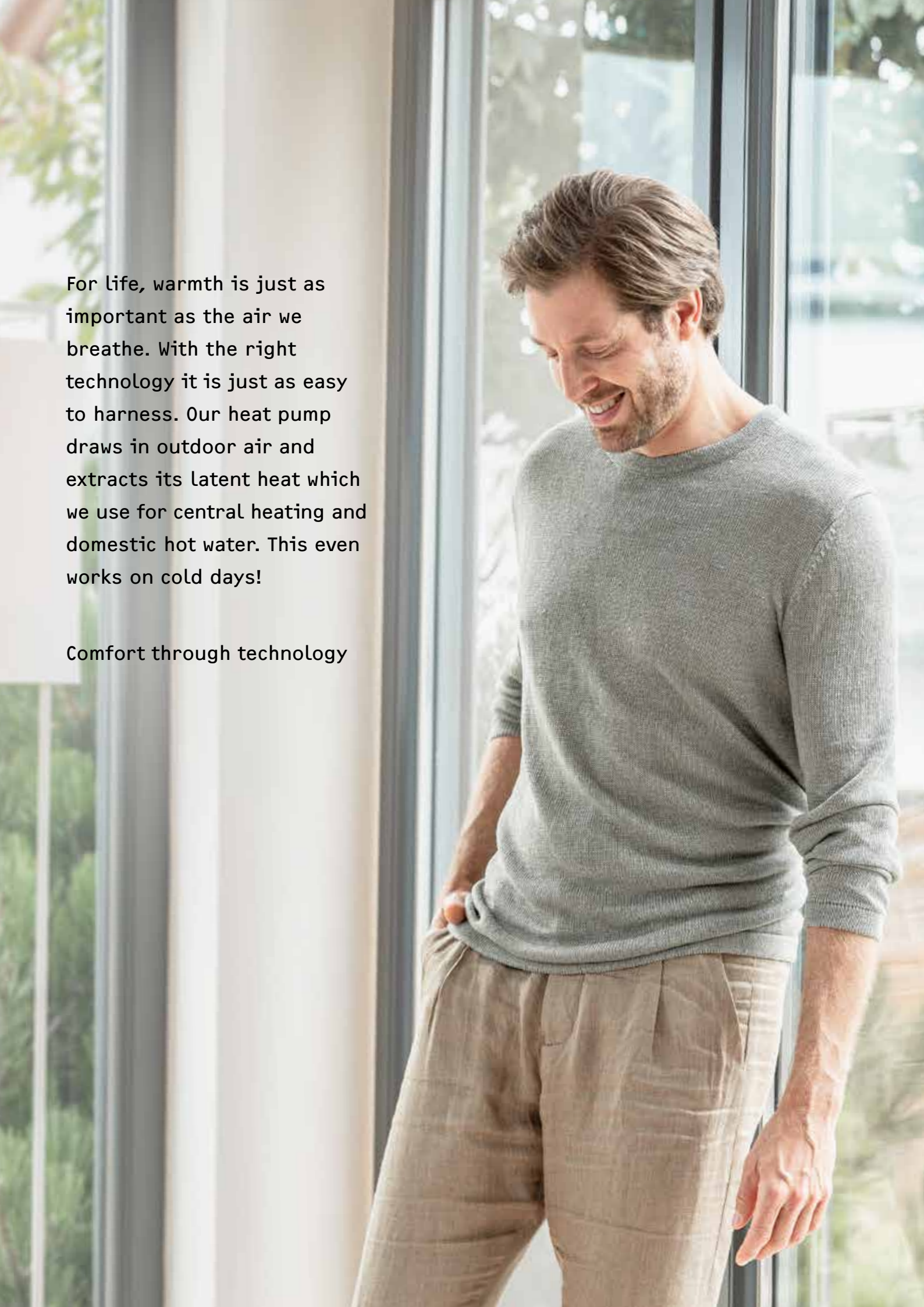
STIEBEL ELTRON

Warmth for the House
Energy for Life

Hot water, heating and cooling utilising energy from the air and ground



For life, warmth is just as important as the air we breathe. With the right technology it is just as easy to harness. Our heat pump draws in outdoor air and extracts its latent heat which we use for central heating and domestic hot water. This even works on cold days!

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 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

Comfortable heat for high performing homes

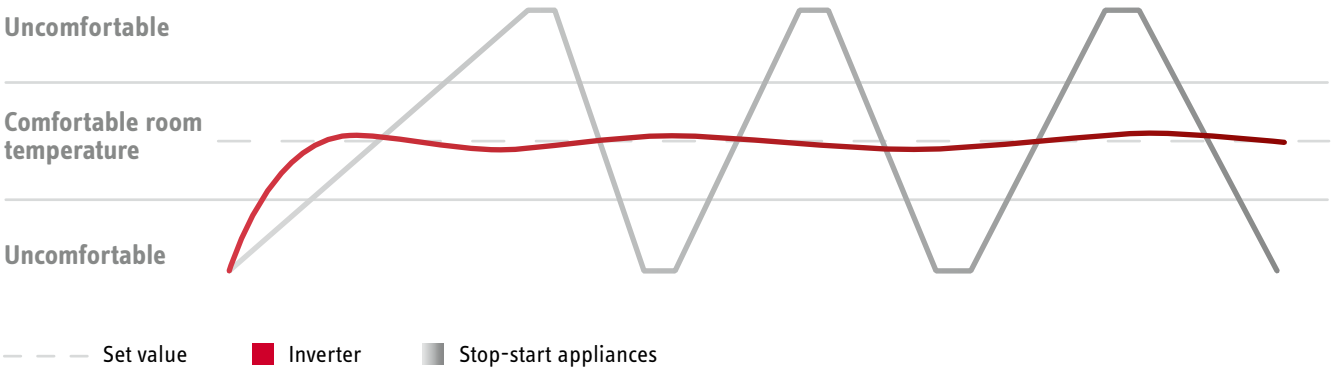
Heat pumps convert the energy stored in the air, water or beneath the ground into heating energy. The energy we use, taken from the air, water and earth, will always be available to us, giving us a limitless energy supply.

First, the heat in the ground or outdoor air is transferred to a refrigerant via a heat exchanger. With help from a compressor, the refrigerant boosts this energy to a higher temperature level, making it suitable for heating your home or your hot water system. With one-part electrical energy, you can convert up to five parts of environmental energy into heating energy.

Inverter technology – balanced living
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.

Convincing green technology
- 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

Our inverter technology compared to conventional heat pumps



Keep a cool head even in summer

During the cold months, warm water circulates in your underfloor heating, which the heat pump has heated up. Our air-to-water heat pump with cooling function can also cool heating water. So pleasantly cool water flows through your underfloor heating and lowers the room temperature. Since, in contrast to air conditioning, no cool air is blown into the room, drafts and annoying noise are a thing of the past.

Advantages of cooling with a heat pump

- Efficient heating and cooling in one device
- A heat pump supplies the whole house
- Save space in individual rooms, as no additional device has to be set up

Solar PV integration with hot water, heating and cooling

Energy management is a big term, but it also works within your own four walls. To do this, we equip you with well thought-out solutions for various building technology conditions and different needs.

Using energy intelligently
Use the electricity from your solar PV system to the full. It starts with connecting your system to your heat pump, which extracts free thermal energy from the environment with the help of self-generated electricity. We offer you two variants of the well thought-out energy management with which you can store excess energy or feed it into the grid for others.

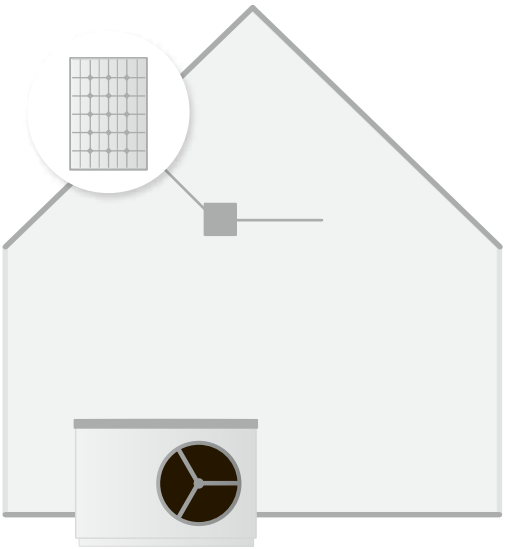
Good reasons to enjoy being at home
- Enjoy more independence
- Consume more self-produced electricity
- Increase efficiency
- Save energy costs
- Reduce environmental impact

SG Ready
SG Ready implementation of connecting a STIEBEL ELTRON hot water heat pump allows for a higher water temperature and more “free“ hot water. A signal wire is connected from a solar PV inverter* to the heat pump activating a higher secondary water temperature set point.

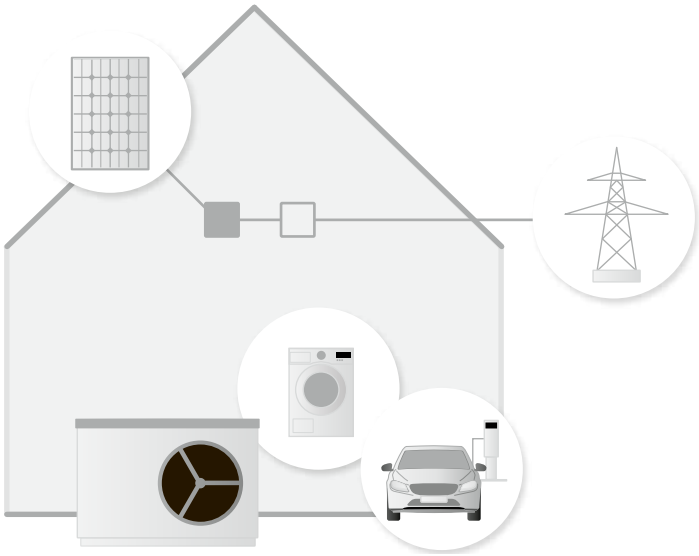
EMS
Implementing a full Energy Management System provides the best holistic solution for connecting with STIEBEL ELTRON hot water heat pumps to a solar PV system. The EMS will activate the heat pump to heat water at the best possible time to reduce consumption from the grid.

With both systems you increase your independence and save electricity costs.

SG Ready[1)]



EMS[1)]



* Suitable solar PV inverter or contact switch necessary

Make the best choice for all your plans

Design services for renewable heating and hot water projects

We offer a range of design and specification services for our partners, helping you to ensure that your project starts off on the right foot from day one.

Commissioning for heat pump installations

Until you are completely confident with every aspect of installing our products, we offer a range of commissioning services. This support helps you ensure optimised efficiency for the system and happy customers. Speak to our technical team about a package to suit your needs.

Heat with a high achiever

Outdoor air source hydronic heat pumps


WPL 25 AC(S)

Specifically engineered for outdoor installation, STIEBEL ELTRON focuses on the aesthetic design in addition to keeping the operating sound of these heat pumps to a minimum.

Top product features

- Outdoor installation to harvest energy from the air and turn it into comfortable heat for your home
- Suitable for use with both in-slab and radiators
- High efficiency with inverter technology
- Very quiet operation
- Internet control and maintenance
- Smart Grid ready for connection to solar PV and energy management systems
- Defrost function for cold climates
- Made in Germany


Heating | Hot water | Outdoor installation | Air source | Cooling | Remote access

For product overview, see p. 19

Heat efficiently and protect the environment

WPL-A 07 Premium air source heat pump

The WPL-A Premium air source heat pump is not only suitable for heating and hot water but also provides cooling in the summer months. Since the inverter unit achieves high flow temperatures even at very low outside temperatures of down to –25 °C, it is equally suitable for use in new build and renovation projects. The WPL-A HK Premium contains a futureproof refrigerant. In combination with its high efficiency, the heat pump scores highly as an environmentally responsible heating technology.

Top product features

- Air source heat pump for heating, hot water and cooling
- Inverter technology provides adjusted heating output
- High flow temperatures of up to 75 °C enable high DHW temperatures and mixed water volumes
- Low operating costs through high efficiency all year round
- Smart Grid ready for connection to solar PV and energy management systems

Heating | Hot water | Outdoor installation | Air source | Cooling | Remote access

For product overview, see p. 19

Bring efficiency into your home

Indoor air source heat pumps

STIEBEL ELTRON is focused on ensuring premium comfort at home, that is why we invent and implement innovative technology such as a modulating fan control which keeps operating sound extremely quiet.

Top product features

- High efficiency with inverter technology
- Silent mode, for even quieter operation
- Installed indoors with ducting
- Smart Grid ready for use with solar PV and energy management systems
- Made in Germany

Heating | Hot water | Indoor installation | Air source | Cooling | Remote access

For product overview, see p. 19

Geothermal hydronic heat pumps

Premium home comfort - from the ground up


WPF 05 – 13 S


WPE-I 33 – 87

Save money while saving energy
The affordable WPF (S) basic series provides an ideal alternative to highly integrated geothermal heat pumps. Featuring top STIEBEL ELTRON quality, the WPF (S) basic is designed for easy installation. Thanks to its compact and timeless design, it fits nicely into your home without wasting valuable space.

Geothermal Heat Pumps
- Compact design for easy placement in your home
- Inbuilt circulation pump and heat pump manager for compact installation
- Timeless design
- Extremely quiet operation thanks to advanced sound technology
- Highest European energy efficiency rating A++ for low energy bills
- Made in Germany

Hot water, heating and cooling on a grand scale
The WPE-I heat pump provides not only heating and cooling but also hot water convenience. The cascade control can supply both apartment buildings and commercial properties. With its inverter technology, the appliance is exceptionally versatile, and can even be conveniently operated via an app (optional accessory required).

Inverter Geothermal Heat Pumps
- Geothermal hydronic heat pump for domestic or commercial applications
- Inverter technology
- Inbuilt touch screen control
- Simultaneous heating and cooling
- Cascadable with 16 devices from 10 kW to 1.6 MW
- Quiet operation
- Control via app with optional accessory


Hot water | Geothermal | Indoor installation | Heating | Cooling | Remote access

For product overview, see p. 20

Even when it is freezing outside, temperature levels remain steady deep below the ground. Our advanced geothermal heat pumps utilise this phenomenon and are among the few that achieve a COP of up to 5. With consistent temperatures under ground, geothermal heat pumps generate from one part electricity up to five parts heat.


STIEBEL ELTRON

Open your door to comfortable living

WPE-I H 230 Premium ground source heat pump

Comfort moves into your home with the WPE-I H Premium inverter geothermal heat pumps. This device uses the heat from the ground for heating and hot water operation. The year-round constant heat output with high flow temperatures offers maximum living comfort regardless of the season.

The all-rounder for new builds or renovations. Thanks to its five performance sizes, the WPE-I H Premium for indoor installation is suitable for use in new buildings and renovation projects. The inverter technology provides consistent heating power for maximum efficiency all year round, which saves money and means an optimal climate in the home.

Top product features

- Geothermal heat pump for hot water and heating
- Made in Germany
- Year-round optimal operation and maximum efficiency thanks to inverter technology
- High flow temperatures of up to 75 °C for energy-efficient heating and large amounts of mixed water
- Future-proof and environmentally friendly refrigerant
- Optional integration into the home network and control via smartphone

Hot water | Geothermal | Indoor installation | Heating | Remote access

For product overview, see p. 21

"Tablets and smartphones are not only our access to the world, but also to our homes. We control our heating technology quite comfortably from any location."

ISG

With the Internet Service Gateway (ISG), our heat pump technology achieves first-class smart home comfort. Data and settings can be easily viewed and adjusted remotely via any mobile or desktop web browser.

Internet Service Gateway

- Smart, economical and forward-thinking: control and manage your heat pump from you sofa at home or anywhere in the world
- Easy operation of your heating system from either desktop or mobile using a standard web browser
- Energy management possible with compatible hardware

Remote access

Energy management

SG Ready

Zubehör erforderlich

KNX

Modbus

Air source hydronic heat pumps





Model	WPL 17 ACS	WPL 17 ICS Classic / WPL 17 IKCS Classic	WPL 24 I	WPL 25 AC / WPL 25 ACS	WPL-A 07 HK
Phases | Rated voltage	Single | 230 V	Single | 230 V	Three | 400 V	Three | 400 V / Single | 230 V	Single | 230 V
Output at A7/W35 (EN 14511)	8.5 kW	9.0 / 9.0 kW	15.7 kW	14.0 / 14.0 kW	10.75 kW
Coefficient of performance at A7/W35 (EN 14511)	4.86	4.74 / 4.60	4.72	5.09 / 4.82	5.42
Installation	Outdoor	Indoor	Indoor	Outdoor	Outdoor
Sound power level (EN 12102)	57 dB(A)	51 / 50 dB(A)	54 dB(A)	54 / 54 dB(A)	48 dB(A)
Sound pressure level at 5 m distance in a free field	35 dB(A)	N/A	N/A	32 / 32 dB(A)	26 dB(A)
Max. flow temperature	60 °C	60 / 60 °C	65 °C	65 / 65 °C	75°C
Inverter technology	■	■	■	■	■
Domestic hot water *	■	■	■	■	■
Cooling *	■	■		■	■
Pool heating *	■	■	■	■	■
Inbuilt heat pump manager		■			
Refrigerant	R410A	R410A	R410A	R410A	R454C
Height | Width | Depth	812 | 1152 | 524 mm	1381 | 874 | 874 1892 | 893 | 833 mm	1116 | 784 | 1182 mm	1045 | 1490 | 593 / 1045 | 1490 | 593 mm	900 | 1270 | 593 mm
Weight	91 kg	175 / 221 kg	279 / 373 kg	175 / 175 kg	135 kg

* May require additional equipment

Accessories

WPM heat pump manager
- Heat pump manager in a designer wall mounting enclosure
- Cooling control function
- Screed heat-up program
- Control the cascade of two heat pumps or the control of one direct heating circuit and two heating circuits with mixer.

WPE extension controller
- Function extension module for the WPM
- Control of two additional heating circuits with mixer
- Swimming pool management

FET Controller
- Remote control with thermostat function for the WPM
- Touch wheel operation
- Room temperature and humidity measurement
- Easy adjustment of the comfort temperature
- Illuminated graphic display




	PREMIUM			
Model	**WPF 04 – 16**	**WPF 10-16 M**	**WPF 05 – 13 S**	**WPF 20 – 32 Set**
Phases | Rated voltage	Three | 400 V	Three | 400 V	Single | 230 V	Three | 400 V
Output at B0/W35 (EN 14511)	4.77 – 17.02 kW	10.02 – 16.99 kW	5.88 – 13.01 kW	20.04 – 33.98 kW
Coefficient of performance at B0/W35 (EN 14511)	4.50 – 5.02	4.49 – 4.35	4.75 – 4.78	4.44 – 4.57
Sound power level (EN 12102)	43 – 53 dB(A)	51 dB(A)	46 – 50 dB(A)	50 – 54 dB(A)
Sound pressure level at 5 m distance in a free field	20 – 31 dB(A)	40 – 45 dB(A)	24 – 28 dB(A)	32 – 45 dB(A)
Max. flow temperature	65 °C	65 °C	60 °C	60 °C
Cascadable		■		■
Domestic hot water *	■	■	■	■
Cooling 1)	■	■	■	■
Pool heating *		■		■
Inbuilt heat pump manager	■		■	
Refrigerant	R410A	R410A	R410A	R410A
Height | Width | Depth	1319 | 598 | 658 mm	960 | 1240 | 680 mm	1319 | 598 | 658 mm	960 | 1240 | 680 mm
Weight	150 – 181 kg	112 – 125 kg	152 – 171 kg	224 – 250 kg




	PREMIUM			
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**
Phases | Rated voltage	Three | 400 V	Three | 400 V	Three | 400 V	Three | 400 V
Output at B0/W35 (EN 14511)	10 – 33 kW	11 – 44 kW	14 – 59 kW	21 - 87 kW
Coefficient of performance at B0/W35 (EN 14511)	4.73	4.60	4.50	4,71
Sound power level (EN 12102)	41 – 56 dB(A)	41 – 56 dB(A)	46 – 61 dB(A)	46 – 63 dB(A)
Max. flow temperature	65 °C	65 °C	65 °C	65 °C
Touch screen and app control	■	■	■	■
Domestic hot water *	■	■	■	■
Cooling *	■	■	■	■
Pool heating *	■	■	■	■
Refrigerant	R410A	R410A	R410A	R410A
Height | Width | Depth	1723 | 692 | 803 mm	1723 | 692 | 803 mm	1742 | 900 | 848 mm	1742 | 900 | 848 mm
Weight	300 kg	300 kg	430 kg	550 kg

* May require additional equipment 1) Other models may perform cooling with additional equipment

Geothermal hydronic heat pumps

	PREMIUM				
Model	**WPE-I 04 H 230**	**WPE-I 06 H 230**	**WPE-I 08 H 230**	**WPE-I 12 H 230**	**WPE-I 15 H 230**
Phases | Rated voltage	Single | 230 V	Single | 230 V	Single | 230 V	Single | 230 V	Single | 230 V
Output at B0/W35 (EN 14511)	1.96 kW	2.37 kW	2.78 kW	4.19 kW	5.18 kW
Coefficient of performance at B0/W35 (EN 14511)	4.60	4.60	4.67	5.01	4.86
Sound power level (EN 12102)	38 – 40 dB(A)	38 – 43 dB(A)	39 – 45 dB(A)	39 – 46 dB(A)	39 – 47 dB(A)
Sound pressure level at 5 m distance in a free field	17 – 18 dB(A)	17 – 21 dB(A)	17 – 23 dB(A)	17 – 24 dB(A)	17 – 25 dB(A)
Max. flow temperature	75 °C	75 °C	75 °C	75 °C	75 °C
Domestic hot water *	■	■	■	■	■
Pool heating *	■	■	■	■	■
Inbuilt heat pump manager	■	■	■	■	■
Refrigerant	R454C	R454C	R454C	R454C	R454C
Height | Width | Depth	1369 | 598 | 658 mm	1369 | 598 | 658 mm	1369 | 598 | 658 mm	1369 | 598 | 658 mm	1369 | 598 | 658 mm
Weight	180 kg	180 kg	180 kg	190 kg	190 kg

Commercial & high capacity heat pumps




	PREMIUM			
Model	**WPL 23 E**	**WPL 47 / WPL 57**	**WPF 20 – 66**	**WPF 27 HT**
Source	Air sourced	Air sourced	Geothermal	Geothermal
Phases | Rated voltage	Three | 400 V	Three | 400 V	Three | 400 V	Three | 400 V
Output (EN 14511)	16.56 kW (A7/W35)	26.83 / 31.01 kW (A7/W35)	21.50 – 67.10 kW (B0/W35)	27.41 kW (B0/W35)
Coefficient of performance (EN 14511)	3.99 (A7/W35)	3.94 / 3.59 (A7/W35)	4.34 – 4.85 (B0/W35)	4.34 (B0/W35)
Sound power level (EN 12102)	65 dB(A)	67 / 69 dB(A)	54 – 61 dB(A)	55 dB(A)
Sound pressure level at 5 m distance in a free field	39 dB(A)	45 / 47 dB(A)	33 – 39.5 dB(A)	33 dB(A)
Max. flow temperature	60 °C	60 / 60 °C	60 °C	75 °C
Stackable			■	■
Cascadable	■	■	■	■
Domestic hot water *	■	■	■	■
Cooling *			■	■
Pool heating *	■	■	■	■
Refrigerant	R407C	R407C	R410A	R134A
Height | Width | Depth	1116 | 784 | 1182 mm	1485 | 1860 | 2040 / 1485 | 1860 | 2040 mm	1154 | 1242 | 860 mm	1154 | 1242 | 860 mm
Weight	211 kg	540 / 600 kg	345 – 655 kg	409 kg

Buffer tanks



	Plus		
Model	**SBP 200 – 700 E SBP 700 E SOL**	**SBP 1000/1500 E SBP 1000/1500 E cool SBP 1000/1500 E SOL**	**SBP 100 classic**
Small | Large capacity system	■ | ■[1)]	– | ■	■ | –
Apartment		■	
Commercial | larger capacity		■ | ■	
Heating | Cooling	■ | ■	■ | ■[2)]	■ | ■
Nominal capacity	207, 415, 703, 720 L	979, 1006, 1473, 1503 L	100 L
Connection to heat pump	■	■	■
Connection to solar thermal	■[3)]	■[4)]	

1) only SBP 700 E/SBP 700 E SOL
2) only SBP 1000 E cool/SBP 1500 E cool
3) only SBP 700 E SOL
4) only SBP 1000 E SOL/SBP 1500 E SOL

For more product information head to our website
www.stiebel-eltron.com.au/downloads

Domestic hot Water cylinders & Combi tanks




	Plus	Premium		
Model	**SBB 302 WP SBB 401 – 501 WP SOL**	**SBS 601 – 1501 W**	**HSBC 200 S**	**HSBC 300 cool**
Small | Large hot water demand*	■ | ■[1)]	– | ■	■ | –	■ | –
Buffer		■	■	■
Heating | Cooling	N/A	■ | –	■ | –	■ | ■
Domestic hot water	■	■	■	■
Nominal capacity	290, 395, 495 L (Hot water)	599, 613, 740, 759, 916, 941, 1430, 1500 L (Buffer)	168 + 100 L (Hot water + Buffer)	270 + 100 L (Hot water + Buffer)
Connection to heat pump	■			
Connection to solar thermal	■[2)]	■[2)]		

* Water usage based on 60 L / person / day
1) only SBB 401-501 WP SOL 2) only SOL models

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.

STIEBEL ELTRON

Your local trade partner:

For new and interesting information on our products, visit www.stiebel-eltron.com.au or consult your local trade partner.

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Issue 05_21 | Air and Ground Source Heat Pump Brochure | Errors excepted. Subject to changes.