STIEBEL ELTRON

The heat is there – let's use it!

> Using free environmental heat from the air with heat pump technology for central heating and domestic hot water





STIEBEL ELTRON is full of energy

We take ideas and turn them into innovations that move markets. As a company driven by engineering expertise, we aim to deliver results and turn our excellent products into groundbreaking system solutions – because we want to be actively engaged in shaping the future.

Our products have long been distinguished by excellent reliability, high quality and a long service life. We have been developing highly efficient electrical appliances since 1924, and in our business, we rely on the expertise of our 3,000 employees, in all areas from product development through to manufacturing. The result is a portfolio of over 2,000 products in the fields of DHW, renewables, air conditioning and room heating. Thanks to the networking opportunities available today, we are able to offer more than 30,000 system solutions that can help you prepare your home for the future.



Electricity – the energy source of the future

The time of the huge energy giants is over; decentralised structures and renewable energies will become the norm for the future of energy supply, as more and more people recognise the benefits of using self-generated power from renewable sources.

> **The goal of the energy transition is independence from fossil fuels** Fossil fuels are in decline on the electricity market – too harmful to the climate and ever more scarce. Nowadays, alternative energies from the sun, wind and water are being used to generate power. This means electricity will remain our primary energy source well into the future. So it is only logical to act in good time to convert the largest energy consumer in your home – the heating system – to this futureproof form of energy. As nearly 90 % of energy consumed in the home is used for heating and hot water, this makes perfect sense. So there is plenty of scope for applying the energy transition at home.



Recognising signs of the times

At STIEBEL ELTRON, we accept our share of responsibility and this is why we have launched the initiative for the House of the Future: Project Energy^e. After all, we have been a pioneer in this sector for 90 years. We know that energy efficient, integrated and lasting solutions are required. Now is the time for safe, straightforward and responsible technology that we can pass on to future generations.





"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!"

The air is full of energy

Outdoor air is supplied to the air source heat pump – installed either indoors or outdoors – via flexible hoses and a quiet fan. A heat exchanger extracts the latent energy from the air which is converted by the heat pump into useful heat for your home. Even at icy temperatures as low as -20 °C, the air source heat pump still operates efficiently and economically, all the while impressing with its very high COP. Very high flow temperatures can also still be achieved without backup from a booster heater.

Metered output - full efficiency

If cars only had two operating modes, i.e. full power or full braking, that would be neither comfortable nor efficient. Conventional heat pumps still operate just like that, as they are either on or off. This is where STIEBEL ELTRON air source heat pumps with inverter technology come into their own. They always deliver precisely the output that is currently required. Not only is this more energy efficient, it also reduces noise emmissions during spring and autumn. This is because the fan and compressor operate, on average, with a lower output and are consequently even more quiet than usual.

- > Continuous output matching
- > Higher efficiency in the partial load range
- > Very quiet
- > Top technology Made by STIEBEL ELTRON
-) Wide application range down to -20 °C
- > Improved efficiency and heating output



A heat pump to suit any demand profile

Air source heat pumps require little installation effort – and this makes them more affordable to buy and more suitable to use when modernising an existing heating system. In new build, too, this form of heating technology is highly desirable because of its efficiency, and it can be employed in low energy houses, for example.

	INVERTER AIR SOURCE	E HEAT PUMPS	AIR SOURCE HEAT PU	MPS
	Seite 08	Seite 10	Seite 11	Seite 12
	-			
Modell	WPL 15/25 AC(S)	WPL 33 HT(S)	WPL 10 I/IK 3	WPL 10 AC(S)
Energy efficiency class	A++/A++ ¹⁾	A+/A+	A+/A+	A+/A+
Detached and two-family houses	•	•	•	•
Apartment building	•	•		
Non-residential buildings				
New build modernisation		= =	■ -	■ -
Heating cooling	= =	= -	= -	
Integral DHW cylinder				•
Outdoor installation	•	•		•
Indoor installation		•	•	
Solar thermal system	•	•	•	•
Installation in tight spaces	•		•	•
May be combined with other heat generators				-

Note on the energy efficiency class: This information complies with the official requirements for room heaters (EU regulation no. 811/2013) that will be mandatory as of September 2015, based on the data for heating heat pumps as per EN 14511 and EN 14825. Efficiency classes marked with ¹⁾ will be equivalent to rating A^{+++} as of September 2019.

SAVING ENERGY THROUGH EXCELLENT EFFICIENCY

Our air source heat pumps are rated into an excellent energy efficiency class, that is up to A++/A++¹⁾ (flow temperature 55 °C/35 °C).



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Selle 13	Selte 14	Selle 16	Selte 17
		ψ	
WPL (S) basic	WPL E	WPL cool	WPL 34 47 57
A+/A+	A+/A+	A+/A+	A+/A+
•	•	•	
			•
■ -	= =	• •	= =
■ -	• -	= =	■ -
•	•	•	•
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COSY WARMTH FROM THE AIR WHEN OTHERS ARE JUST STARTING THEIR BOILERS

The WPL 15/25 AC(S) air source heat pump, designed for installation outdoors, delivers first class efficiency, even at temperatures significantly below freezing. Its high flow temperatures make the supply of classic radiators possible.

Low noise - high efficiency

Low operating noise is of critical relevance for outdoor installations – particularly when considering neighbours. The more quiet a heat pump is in operation, the smaller the clearance required to the nearest building.



Benefits for your home

- > With energy efficient inverter technology for high flow temperatures even on cold winter days
- Suitable for densely built-up areas thanks to low operating noise
- > Can be combined with a solar thermal system
- > Integral cooling function
- > High energy efficiency class A++, even at a flow temperature of 55°C



Model		WPL 15 ACS	WPL 25 AC	WPL 25 ACS
		234759	234760	234761
Energy efficiency class, average climate, W55/W35		A++/A++ 1)	A++/A++ 1)	A++/A++ 1)
Heating output at A2/W35 (EN 14511)	kW	4.23	8.33	8.15
Heating output at A-7/W35 (EN 14511)	kW	6.86	12.86	13.05
Cooling capacity at A35/W7 max.	kW	7.8	14.5	14.5
COP at A2/W35 (EN 14511)		3.88	4.17	4.05
COP at A-7/W35 (EN 14511)		2.83	2.93	2.98
Cooling capacity factor at A35/W7 max.		2.4	2	2
Sound power level (EN 12102)	dB(A)	55	56	56
Min. application limit, heat source	°C	-20	-20	-20
Max. application limit, heat source	°C	40	40	30
Max. application limit on the heating side	°C	65	65	65
Height/Width/Denth	mm	900/1270/593	1045/1490/593	1045/1490/1490

Note on the energy efficiency class: This information complies with the official requirements for room heaters (EU regulation no. 811/2013) that will be mandatory as of September 2015, based on the data for heating heat pumps as per EN 14511 and EN 14825. Efficiency classes marked with ¹⁾ will be equivalent to rating A^{+++} as of September 2019.

CLEVER CHOICE FOR HEATING SYSTEM MODERNISATION

The WPL 33 HT (S) was specifically designed for modernisation projects. High grade technology achieves the flow temperatures necessary for radiator operation even when its freezing outside. Thanks to advanced inverter technology, energy efficiency remains high, too.

Totally flexible

The WPL 33 HT(S) has been designed with maximum flexibility in mind, and as a result it can adjust optimally to the most diverse requirements. It can be sited indoors or out, and can be combined with other heat generators, such as a solar thermal system.



WPL 33 HT(S) outdoor installation

Benefits for your home

- > Inverter technology matches the heating output to the actual heat demand
- > Top quality appliance with premium technology
- > Very quiet operation
- > High DHW convenience
- > Suitable for apartment buildings

Model		WPL 33 HT	WPL 33 HTS
		229938	229937
Energy efficiency class average climate, W55/W35		A+/A+	A+/A+
Heating output at A-7/W35 (EN 14511)	kW	12.38	12.38
Heating output at A2/W35 (EN 14511)	kW	7.45	7.45
COP at A-7/W35 (EN 14511)		2.47	2.47
COP at A2/W35 (EN 14511)		3.47	3.47
Sound power level (EN 12102)	dB(A)	58	58
Min. application limit on the heating side	°C	15	15
Max. application limit on the heating side	°C	75	75
Min. application limit, heat source	°C	-20	-20
Max. application limit, heat source	°C	30	30
Height/Width/Depth (outdoor installation)	mm	1434/1280/1390	1434/1280/1390



MORE ROOM WITH A COMPACT SOLUTION

The compact WPL 10 I/IK 3 air source heat pump is well suited for newly built detached or two-family houses. It is installed indoors and supplies every interior with the required amount of heat, whilst taking up the smallest amount of space itself.

Made to work in combination right from the start

The WPL 10 I/IK 3 is perfect in combination with a solar thermal system or alternative heat generators. These flexible application options can improve efficiency even further.



WPL 10 I/IK 3

Benefits for your home

- > Ideally suited to new build
- > Small footprint
- > Circulation pump with energy efficiency class A
-) High flow temperatures are achieved even at outside temperatures as low as $-20\,^\circ\text{C}$

Model	WPL 10 I	WPL 10 IK 3	
		220811	234655
Energy efficiency class average climate. W55/W35		A+/A+	A+/A+
Heating output at A-7/W35 (EN 14511)	kW	5.40	5.40
Heating output at A2/W35 (EN 14511)	kW	6.70	6.70
COP at A-7/W35 (EN 14511)		2.90	2.90
COP at A2/W35 (EN 14511)		3.27	3.27
Sound power level indoor installation			
air intake/discharge (EN 12102)	dB(A)	62	62
Sound power level indoor installation (EN 12102)	dB(A)	57	57
Min. application limit on the heating side	°C	15	15
Max. application limit on the heating side	°C	60	60
Min. application limit. heat source	°C	-20	-20
Max. application limit. heat source	°C	30	30
Height/Width/Depth	mm	1010/758/856	1668/778/925
Weight	kσ	166	212



HEATS, COOLS AND SAVES

The WPL 10 AC(S) offers an affordable entry into personal energy transition. It is an excellent air source heat pump for outdoor installation on a small footprint. In addition, it offers an efficient cooling function.

A clever combination

The WPL 10 AC(S) air source heat pump is perfectly suited for integration into systems with additional heat generators. This way the benefits of a solar thermal system can be exploited, for example.



WPL 10 AC(S)

Benefits for your home

- > Ideally suited to new build
- > Very quiet operation
- > Small footprint
- > Optional active cooling by reversing the refrigerant cycle
- > Great for use in combination with other heat generators

Model		WPL 10 AC	WPL 10 ACS
		230236	227995
Energy efficiency class average climate, W55/W35		A+/A+	A+/A+
Heating output at A-7/W35 (EN 14511)	kW	5.11	4.94
Heating output at A2/W35 (EN 14511)	kW	6.74	6.53
Cooling capacity at A35/W7	kW	6.22	6.39
Cooling capacity at A35/W7	kW	9.12	9.31
COP at A-7/W35 (EN 14511)		3.06	2.86
COP at A2/W35 (EN 14511)		3.51	3.37
Sound power level outdoor installation (EN 12102)	dB(A)	59	60
Min. application limit on the heating side	°C	15	15
Max. application limit on the heating side	°C	60	60
Min. application limit, heat source	°C	-20	-20
Max. application limit, heat source	°C	40	40
Height/Width/Depth	mm	900/1270/593	900/1270/593



ENTRY MODEL FOR AMBITIOUS ENERGY SAVERS

In the shape of the air source heat pump WPL (S) basic, STIEBEL ELTRON offers a highly attractive and affordable entry model which is particularly suitable for new build with heating systems requiring a low flow temperature. The corrosion-resistant metal casing was developed specifically for space efficient outdoor installation.

No cut back on efficiency

The WPL (S) basic makes its case with high levels of efficiency that are not usual for this price bracket. Its excellent equipment level, including an electronically controlled expansion valve, large evaporator and optimum defrost technology, make it possible.



WPL (S) basic

Benefits for your home

- > Affordable entry into heat pump technology
- > Efficient defrosting

Model		WPL 13 basic	WPL 20 basic	WPL 13 S basic	WPL 18 S basic
		230385	230386	230387	230388
Energy efficiency class,					
average climate, W55/W35		A+/A+	A+/A+	A+/A+	A+/A+
Heating output at A-7/W35					
(EN 14511)	kW	6.39	10.43	6.69	8.89
Heating output at A2/W35					
(EN 14511)	kW	8.50	12.90	9.07	11.60
COP at A-7/W35 (EN 14511)		2.92	2.82	2.86	2.26
COP at A2/W35 (EN 14511)		3.62	3.36	3.66	3.39
Sound power level (EN 12102)	dB(A)	68	70	70	73
Min. application limit					
on the heating side	°C	15	15	15	15
Max. application limit					
on the heating side	°C	60	60	60	60
Min. application limit,					
heat source	°C	-18	-18	-18	-18
Max. application limit,					
heat source	°C	40	40	40	40
Height/Width/Denth	mm	1116/784/1182	1116/784/1182	1116/784/1182	1116/784/1182



PERSUASIVE OUTPUT REGARDLESS OF SITUATION

The advantages of the robust WPL E will benefit almost any type of building and any kind of application. Even at temperatures as low as -20 °C, they can reach flow temperatures of 60 °C which makes them an optimum choice when modernising older buildings.

And there is more

In addition to the almost limitless application options, this model can also be used in cascades. In larger buildings or smaller commercial units, the output can be multiplied easily by combining several WPL E heat pumps into a cascade.



Benefits for your home

- > Ideally suited to modernisation
- > High output and excellent COP even at low outside temperatures
- > Cost savings through efficient heat pump defrosting
- > Highly flexible siting options (indoors and outdoors)

Model		WPL 13 E	WPL 18 E	WPL 23 E	WPL 33
		227756	227757	227758	185348
Energy efficiency class, average climate, W55/W35		A+/A++	A+/A++	A+/A+	A+/A+
Heating output at A-7/W35 (EN 14511)	kW	6.77	9.72	13.21	10.78
Heating output at A2/W35 (EN 14511)	kW	8.09	11.30	15.73	8.90
COP at A-7/W35 (EN 14511)		3.20	3.27	3.14	3.26
COP at A2/W35 (EN 14511)		3.76	3.73	3.62	2.50
Sound pressure level at 1 m distance in a free field	dB(A)	54	54	54	57
Min. application limit, heat source	°C	-20	-20	-20	30
Max. application limit, heat source	°C	40	40	40	-20
Min. application limit on the heating side	°C	15	15	15	15
Max. application limit on the heating side	°C	60	60	60	60
Height/Width/Depth (outdoor installation)	mm	1434/1240/1280	1434/1240/1280	1434/1240/1280	1434/1280/1390



OUR ALL-INCLUSIVE MODEL

An integral cooling function makes the WPL cool the all-inclusive model amongst air source heat pumps. It enables a reversal of the refrigerant circuit from heating into cooling mode. Consequently the WPL cool offers every opportunity for advanced room tempering.

Also available for indoor installation

The WPL E/cool is also perfect indoors. The compact air routing module, WPIC 3 with integral control unit, can be optimally connected to the heat pump, including hydraulic components.





WPL cool with air routing module WPIC 3

Benefits for your home

- > Ideally suited to modernisation
- > High output and excellent COP even at low temperatures
- > Cost savings through efficient heat pump defrosting
- > Highly flexible siting options (indoors and outdoors)

Model		WPL 13 cool	WPL 18 cool	WPL 23 cool	WPIC 3
		223400	223401	223402	234343
Energy efficiency class average					
climate, W55/W35		A+/A+	A++/A++	A+/A++	
Heating output at A-7/W35 (EN 14511)	kW	6.60	9.72	13.21	
Heating output at A2/W35 (EN 14511)	kW	8.10	11.30	15.73	
Cooling capacity at A35/W7	kW	6.70	9.20	12.50	
COP at A-7/W35 (EN 14511)		3.20	3.27	3.14	
COP at A2/W35 (EN 14511)		3.76	3.73	3.62	
Cooling capacity factor at A35/W7		2.40	2.40	2.10	
Sound pressure level at					
1 m distance in a free field	dB(A)	54	54	54	
Min. application limit, heat source	°C	-20	-20	-20	
Max. application limit, heat source	°C	40	40	40	
Min. application limit on the					
heating side	°C	15	15	15	
Max. application limit on the					
heating side	°C	60	60	60	
Height/Width/Depth	mm	1116/784/1182	1116/784/1182	1116/784/1182	637/1240/800



ENERGY PACKS FOR MAJOR TASKS

The WPL 34 | 47 | 57 has adequate energy reserves to cope with higher heating demands, such as those common in apartment blocks or commercial buildings. A cascade layout enables the output to be multiplied and matched accurately to the building in question.

Adaptable down to the last detail

With solar backup or without – the WPL 34 | 47 | 57 for outdoor installation offers every option. The variable heat pump manager even enables use in combination with other heat generators.



WPL 34 | 47 | 57

Benefits for your home

- > Low height
- Evaporator protected against external damage for high operational reliability
- > Suitable for linkup with an additional energy source for dual mode operation

Model		WPL 34	WPL 47	WPL 57
		228835	228836	228837
Energy efficiency class				
average climate, W55/W35		A+/A+	A+/A+	A+/A+
Heating output at A2/W35 (EN 14511)	kW	18.32	24.82	29.92
Heating output at A-7/W35 (EN 14511)	kW	15.22	21.68	23.90
COP at A2/W35 (EN 14511)		3.14	3.43	3.28
COP at A-7/W35 (EN 14511)		2.78	3.05	2.70
Sound power level (EN 12102) dE	3(A)	67	67	69
Min. application limit on the heating side	°C	15	15	15
Max. application limit on the heating side	°C	60	60	60
Min. application limit, heat source	°C	-20	-20	-20
Max. application limit, heat source	°C	40	40	40
Height/Width/Depth (outdoor installation)	mm	1485/1860/2040	1485/1860/2040	1485/1860/2040

Alternatively, the WPL 34/47/57 is also available in silver metallic.



DISCOVERING POSSIBILITIES

Our extensive range of accessories allows all our appliances to be adjusted to your personal requirements - for tailor-made convenience. These adaptations can range from the control unit of a single appliance to a complex system - STIEBEL ELTRON offers everything from a single source. For that reason, all components are perfectly matched to each other and guarantee a long service life for lasting solutions. For further information on our extensive range of accessories for your STIEBEL ELTRON products see www.stiebel-eltron.com or speak to your local trade partner.

Heat pump manager

Makes best use of your heat pump's potential

The WPM 3 is the control centre of any STIEBEL ELTRON heat pump system, enabling the entire system to be monitored and controlled.



Everything important under control

The FE7 remote control enables the required room temperature to be controlled with great accuracy. For example, it makes it possible to accurately and individually set the heat pump operating mode.



We speak one language the world over: German Engineering

We are represented in many key markets throughout the world with our products and solutions. This includes three international production facilities, 24 subsidiaries and agencies in over 120 countries. More than 40 per cent of turnover is now achieved internationally thanks to the high vertical range of manufacture of our products, the well-engineered quality "made in Germany" and in-depth knowledge of local markets.



Manufacturing facilities

SUCCESS ON FIVE CONTINENTS

STIEBEL ELTRON products are available worldwide. We are represented on the international stage by our own subsidiaries as well as numerous trade partners. With their own sales organisations and service facilities they successfully serve a diverse range of markets.



Your local trade partner:

Have we sparked your interest? For further information, see www.stiebel-eltron.com or consult your local trade partner.



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