

Harvesting energy for use every day.

- › HEAT PUMPS
- › VENTILATION
- › SOLAR



Independence

STIEBEL ELTRON

Renewables – energy supply in natural balance.

Make yourself independent of fossil fuels as much as you can. Nature is bursting with energy and our tailor-made solutions, based on renewables, make these natural resources available to you with the highest efficiency.



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Quality doesn't happen by chance. It is a matter of design.

From as early as 1924, the STIEBEL ELTRON brand has been associated with innovative solutions. Then and now, we continue to develop products with well-proven functions that are of the highest quality standard. These products combine innovative technology, reliable quality, and service for branded products with trusted partners of the best tradition. Our unconventional thinking and practical inventions have left their mark on entire market sectors. This intellectual dynamism is the most important capital our company possesses. It enables us to create products and systems of perfect quality for a demanding market.

Dedicated to continuity.

The same enthusiasm that led us to develop our present product range, drives us on to seek sustainable solutions for the future. When it comes to hot water, renewables and central heating, STIEBEL ELTRON has convenient and efficient solutions for today, and tomorrow too. Numerous individual components and complex system solutions contribute to protecting the environment and scarce resources without any sacrifice of comfort.

STIEBEL ELTRON.

Heat pump specialist.

For more than 35 years.

35 years ago we were one of the first businesses in Germany to develop heat pump technology far enough to launch it onto the market. Today, we have one of the largest and most advanced heat pump production facilities in Europe. We also have developed a wide pallet of products around renewables, too, starting with highly efficient compact appliances through to integral combi systems and modular and extendible system solutions. Now our seamless range is able to face any energetic challenge the future might hold – in the private as well as the commercial sector. All of our products are developed with close reference to statutory standards and requirements. It is our stated aim to offer our customers, not only high grade products, but also tailor-made solutions. To achieve this we cooperate with a strong network of qualified system partners, enabling us to offer our customers a very personal local service. Although technical options have changed fundamentally since 1924, we have remained faithful to our aims, so you will always feel comfortable with your decision in favour of the high grade products and solutions from STIEBEL ELTRON.

The drive to raise energy efficiency comes from a move towards independence. Away from reliance on gas and oil. Away from the emission of environmentally damaging greenhouse gases, such as CO₂. Forward towards the sustainable and careful utilisation of renewables. We are on that path – join us.

Independence means ...

Success is borne out of creativity. Dr. Theodor Stiebel set out 1924 to develop products that would consume the least amount of energy. An intention that became of great significance during the oil crisis of 1973. The timing was right for us to enter the heat pump technology sector.



... growing sustainably from the roots of a company.

The creativity of our employees is the most important asset our company possesses. We research and develop solutions for tomorrow's world with passion, because the world belongs to those who actively help to shape it.



... preparing the ground to encourage creativity.

Sustainable living concepts are a matter of technology, as can be seen in the Energy Plus house where more energy is generated than is consumed. Products appropriate for the market enable us to open new doors in this sector.



... in-house development of pioneering solutions.

STIEBEL ELTRON offers a solution for every problem.

New forms of harvesting energy create new challenges. With a wide range of system solutions, STIEBEL ELTRON offers a convincing response to many questions. All our answers are based on innovative and reliable technology, developed, designed and frequently made in Germany.

Heat pumps

› Using heat that is all around us

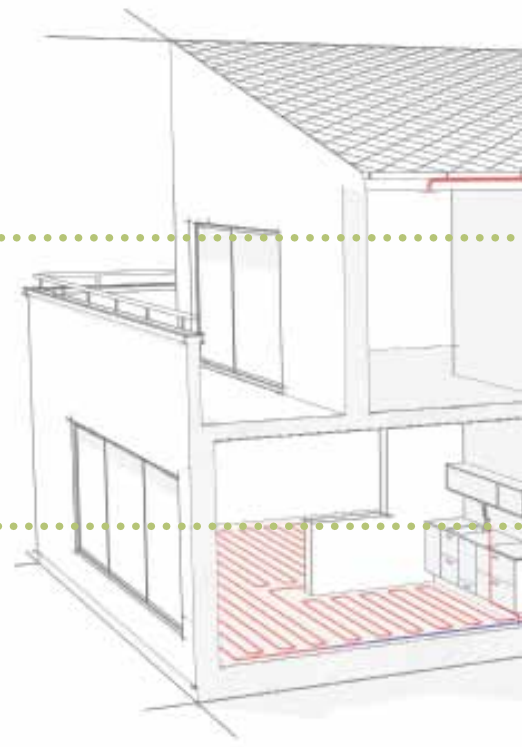
Heat pumps utilise the solar energy stored in the environment. Subject to medium, we differentiate between air | water, brine | water and water | water heat pumps. The large variety of systems offered by STIEBEL ELTRON mean that a tailor-made solution can be found for any demand.



Ventilation

› Automatic ventilation with hardly any heat loss

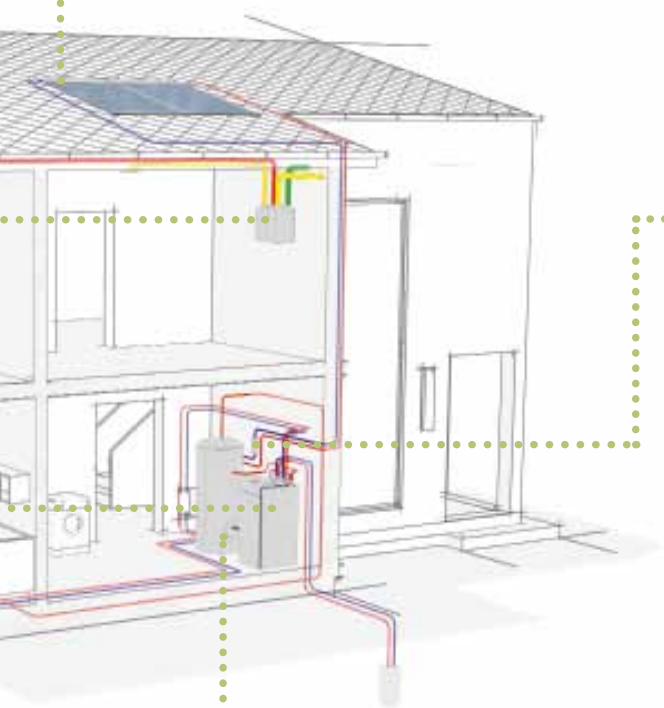
The more air-tight buildings become, the more important it is to regulate air change, not least to prevent damage to the building, such as from fungal growth. STIEBEL ELTRON offers tailor-made solutions that provide DHW heating as well as ventilation.



Solar thermal

› Clever use of solar energy

STIEBEL ELTRON can offer first class and durable products to those who want to reduce their energy costs with help from the sun. Solar energy can be used for providing solar central heating backup. In this area, too, STIEBEL ELTRON quality pays for itself through a long service life, as well as through excellent efficiency.



Accessories

› So you won't be short of anything – STIEBEL ELTRON accessories

To ensure that in-house efficiency does not falter on a detail, STIEBEL ELTRON offers an extensive range of accessories. This makes it possible to adapt the chosen system solution to existing conditions with the highest possible precision; thereby meeting the demand for particular operating convenience, for example.



Cylinders

› Plenty of heat in store

An adequately sized DHW cylinder, buffer cylinder or system cylinder is a must for any efficient heating system or for the utilisation of a solar thermal system. With its extensive range STIEBEL ELTRON offers just the right appliance for any application.



A big part of the energy generated is used to supply private homes with heat. It is time that we use advanced technology to reduce the wasteful part of this energy demand.

Nature is bursting with energy.
And we are full of ideas as to how we
can utilise this abundance, too, with
products and systems that create
independence from expensive and
diminishing fossil fuels.

Meeting challenges with renewed energy.

Most heating systems do what you expect of them – they heat. Now, however, questions concerning the future are attached to the use of this simple piece of domestic equipment: How can we secure our heat provision without exploiting ever more precious and expensive resources? Most important, at what cost? One thing is for sure – to continue burning valuable fossil fuels, such as gas and oil, in the way that we are now, is a strategy without future.

Welcome to the new energy age.

Just use your imagination: The energy available in fossil fuel was formed during a bygone age. In just one millionth (!) of the time it took to create, it will have been consumed. For this reason, systems are now required that will remain efficient in the long term. The most obvious solution at hand lies 100 million miles away from us – the sun. It radiates energy and the solar energy stored in nature is sufficient to secure our energy provision – we just need to grab it.

Already, STIEBEL ELTRON offers solutions with which we can drastically reduce energy consumption and harvest renewables. And that, at costs far below those for classic energy provision, because we're of the opinion that innovative technology must protect two things: the environment and your bank balance.



Energy from nature

- › Independence from gas and oil
- › Free and available every day
- › Protects the environment and our climate
- › Zero emissions
- › Unlimited availability
- › Futureproof

Ideas as energy.

The best things in life are free. That can apply to the energy we consume in our daily lives, too. Nature provides it for us in abundance, free of charge – namely as radiated and heating energy. Using intelligent technology, such as heat pumps and solar thermal systems, these vast resources can be employed to provide energy for private and commercial buildings. Together with intelligent energy management, systems for heat recovery, and further measures for increasing energy efficiency, the use of gas and oil in situ can be made irrelevant. We're not looking at the distant future either. This is possible now. STIEBEL ELTRON began over 35 years ago to develop products for renewables for good reason. Today, the company offers one of the widest ranges of systems and solutions – proven in practical applications – for the energy household of tomorrow.

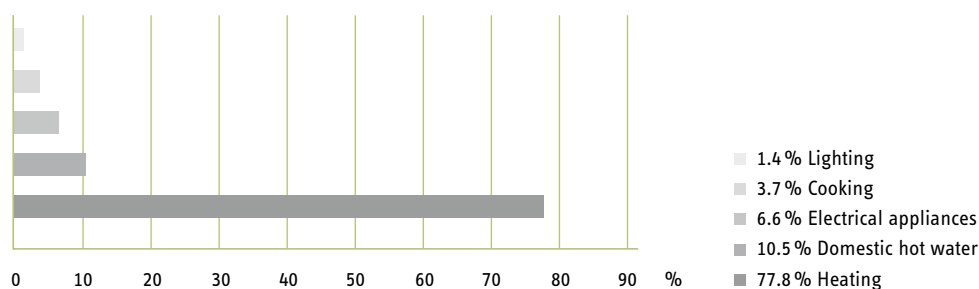
We want to be frugal, but not with facts.

Energy can take the most diverse forms and can be used in just as many ways. Most frequently it is used to generate heat. If you consider that, in private homes, almost 90 % of the entire energy spend is used to provide heating and domestic hot water, you can guess which way we're thinking: potential savings are fantastic. Or to put it another way – who would not want to spend less on energy in future?

Economical environmental protection.

Using renewables pays back, and not just economically. Handling valuable resources responsibly is becoming one of the most important challenges of the future, yet using renewables already pays for itself today. Those who invest in renewables protect the environment and gain from long-term savings in heating energy costs.

Energy consumers in households (in %)



Based on: Detached house, source: AG Energiebilanzen

We have the energy to change things. That developing heating technology based on re than 35 years. We've brought them to mark continue to look ahead to ensure that in fu affordable heat provision beyond gas and



is why we have been
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oil.



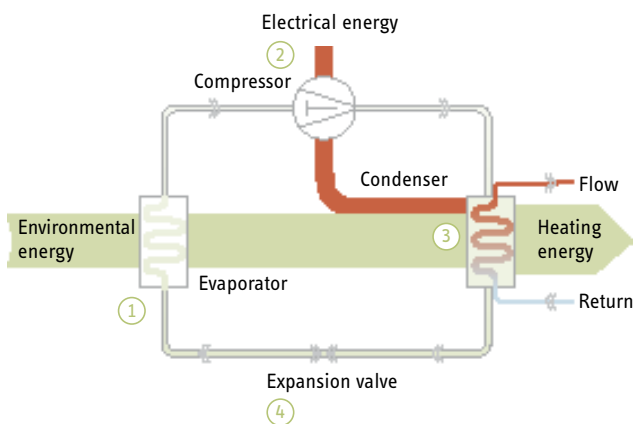
How to use the cold to generate hot water.

A brief introduction to the world of heat pumps.

Generally speaking, heat can only be gained from an energy source that has a higher temperature than the immediate ambience. For example from a flame inside a boiler. A medium – mostly water – flows around this heat source and absorbs the heat through the large temperature drop. The heating energy flows from the high temperature to the low one. This energy absorbed from the burner flame is transported by the medium (water) to the point where it is required: i.e. to the radiator.

In principle, heat pump technology operates similarly. However, it utilises the solar energy stored in the environment and transfers it to the heating system. That means it draws from an energy source that will, in practical terms, never diminish. However, as this environmental energy is not available at high temperatures, the medium that has to absorb this energy must be cooler to create the necessary temperature drop. For this reason, not water, but a refrigerant is used as a heat transfer medium.

Heat pump technology – simple physics

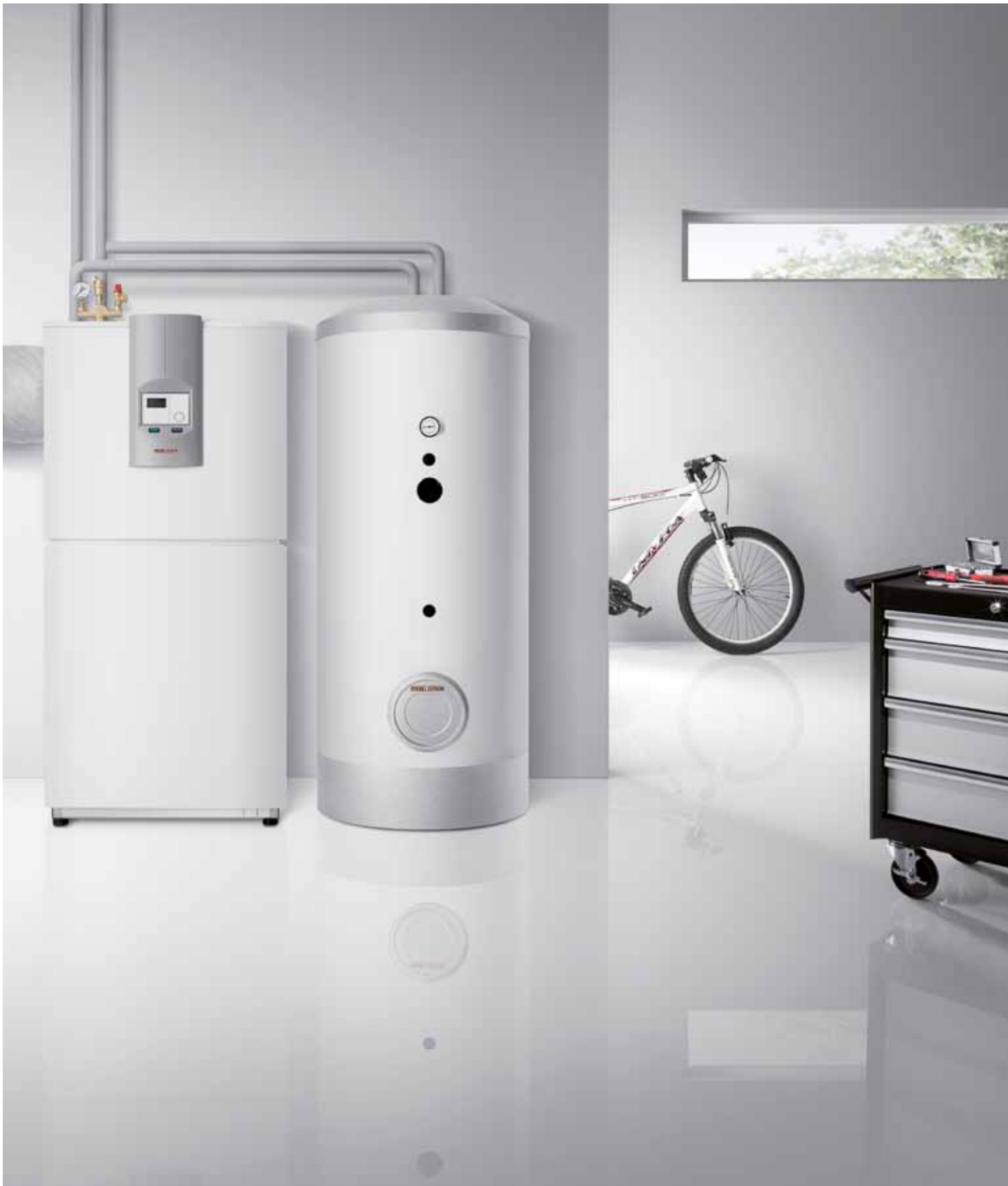


This process takes place as follows: The cooled liquid refrigerant is first routed to the heat exchanger, the so-called evaporator. Here, the refrigerant absorbs the environmental heat and evaporates in the process. A compressor draws in the now gaseous refrigerant, where it is compressed. This raises the pressure and the temperature rises further. A second heat exchanger (condenser) now ensures that this heat reaches the heating system. The heat transfer lets the refrigerant condense, turning it back into a liquid state. Finally, the pressure reduces in the expansion valve, and the cycle starts again. This principle corresponds to that of a fridge, except the fridge cools instead of heating.

- 1 A cooled refrigerant is routed, in its liquid state, to the heat exchanger (evaporator). The temperature drop enables it to absorb energy from the environment. In the process, the refrigerant changes into a gaseous state.
- 2 Inside the compressor, the gaseous refrigerant is compressed. The increase in pressure also raises the temperature.
- 3 A second heat exchanger (condenser) transports this heat into the heating system, the refrigerant reverts to its liquid form and cools down.
- 4 The refrigerant pressure is reduced in the expansion valve. The process starts again.

Efficiency – a matter of technology.

STIEBEL ELTRON has worked continuously to increase the efficiency of its heat pumps through highly efficient technology. Practically, a heat pump only requires electrical power to operate its compressor. From every kWh of electricity, some heat pumps from STIEBEL ELTRON generate up to 6 kW available heating energy. These systems operate with extreme reliability and are almost maintenance-free. Many such appliances have been in trouble-free operation for more than 35 years.



Heating with heat pumps.

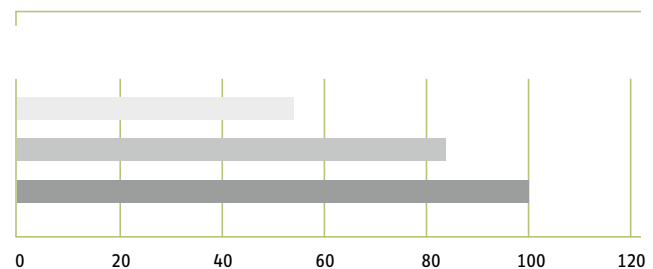
Increasingly, when deciding on a new heating system, the question of a system change arises. Will the classic fuels crude oil and natural gas remain sustainable in the future? STIEBEL ELTRON has prepared a comparison for you between conventional heating systems and heat pumps.

- › CO₂ emissions massively reduced
- › Largely free energy (only the power consumption needs to be paid for)
- › Little space requirement
- › Largely independent of raw material prices

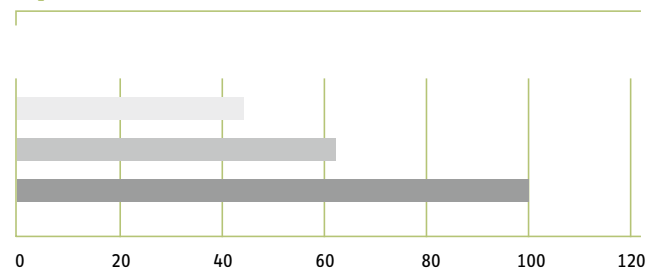
What is noticeable in the direct system comparison is that heat pumps are superior to both modern low-temperature oil heating systems and to condensing technology employing natural gas. This superiority applies for both the consumption of primary energy and CO₂ emissions. In light of dwindling resources and increasingly expensive raw material costs, heat pumps undoubtedly possess a more forward-looking technology.

Comparison of different heating systems (central heating)

Comparison of primary energy consumption



CO₂ emissions

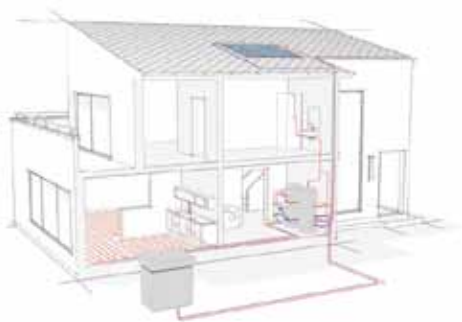


- Mono mode electric heat pump, seasonal performance factor 4 (ground source)
- Gas condensing
- Low temperature oil



Free environmental energy.

In practical applications, three forms of harvesting energy have proven to be ideal: energy from the ambient air, using the ground as a supplier of heat and utilising groundwater as heat source. One of these principle types enables almost every type of building and home of any size to be equipped or modernised.



Air as heat source

Air as heat source.

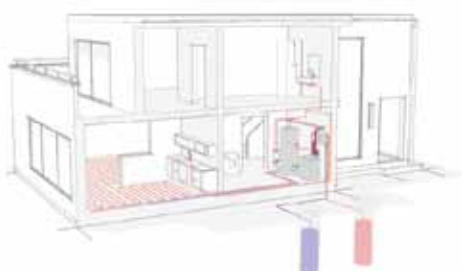
Outdoor air is drawn in by a quiet fan. A heat exchanger extracts energy from the air. The heat pump converts this energy into available heat for your home. On account of the low installation effort, this principle is particularly suitable for the conversion of an existing heating system to a heat pump system. However, many low energy houses are also heated with this technology.



Ground as heat source

Ground as heat source.

By the geothermal process, one or more probes are let into the ground to a depth of 50–100 metres, depending on site conditions. A heat transfer medium transports the geothermal heat to the heat pump, where it is made available for the building. This most frequently used type of heat pump operates in practical terms with the same efficiency all year round, as the temperature under ground is almost constant. A relatively small area is required for drilling.



Groundwater as heat source

Groundwater as heat source.

Where groundwater is available, it can be used as a heat source without much fuss. A delivery well provides a supply of groundwater to a heat exchanger, where the heat pump absorbs energy and makes it available as heating energy. The groundwater then returns under ground via a so-called return well. Using groundwater as a heat source offers maximum efficiency all year round.

Six steps to the right heat pump.

1 | House check

Check the building conditions and availability of space.

2 | Calculating the heat load

The heating energy demand results from the floor area of the residence and its thermal insulation. Our experts always start by calculating the optimum sizing of the heating system.

3 | Required functions

All of our heat pumps provide heating and DHW. Our trade partners will advise you as to whether auxiliary functions, such as ventilation and cooling might offer relevant comfort or savings options.

4 | Siting the heat pump

Our heat pumps can be installed in internal spaces and in a cellar. An air | water heat pump saves that space, as it can also be installed outdoors.

5 | Type of heat pump

With steps 1–4, the optimum heat pump for your property is selected from our wide range of products.

6 | Your personal offer

Our partners calculate an offer.



Enjoy fresh air without heat loss.

Buildings need fresh air to stay healthy, just like people. A regular exchange of stale air is particularly important for energy efficient houses, the building envelope of which is characterised by being largely air-tight.

- › Consistently high air quality
- › Energy efficient ventilation through heat recovery
- › Benefits, particularly for allergy sufferers

Healthy ventilation for your home.

Guidelines specify that interiors should be vented for at least 10 minutes 3 to 4 times each day. This venting should replace at least 50 % of the interior air – this is something that working occupants, those that like to travel, and all those who are frequently away from home can hardly ever achieve.

However, the risks are real: If moisture collects in the interior, a slight temperature fluctuation is enough to raise its humidity level. It then becomes a perfect breeding ground for fungal growth which flourishes when a humidity level of 80 % exists for around three days – the same goes for bacteria and viruses. These microbes not only attack the building substance, they can affect the occupants adversely, too. When a building is vented too infrequently, noxious substances from the interior equipment concentrate in the air just as much as CO₂.

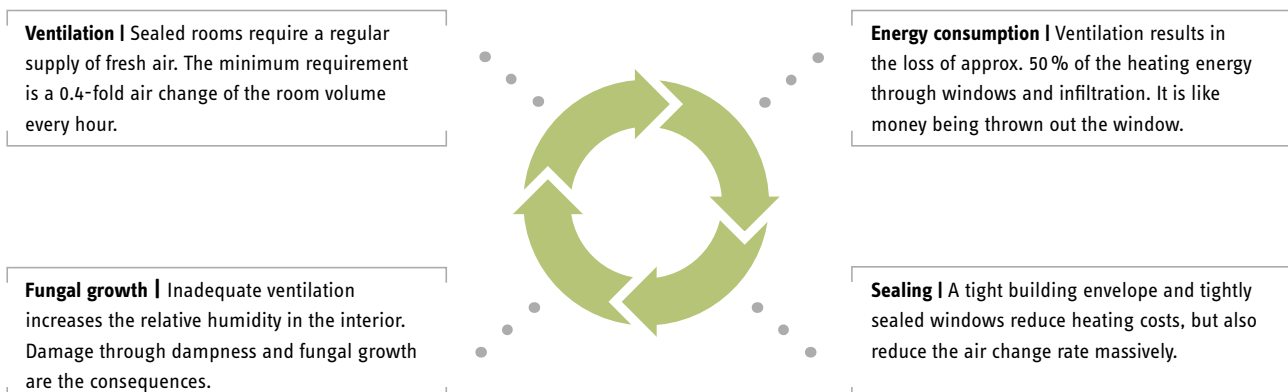
The benefits of automatic ventilation.

An automatic fresh air supply prevents such problems. An air quality sensor recognises a requirement independently and regulates the fresh air supply accordingly. Contrary to venting by opening windows, hardly any heating energy is lost as a result – up to 90 % of the heat is recovered by highly effective heat exchangers.

Breathe freely.

Automatic ventilation systems offer particular benefits to those suffering from allergies. Special filters can keep pollen and dust away from the interior, whilst the regular air changes reduce the proliferation of dust mites.

Domestic ventilation – a vicious circle



**Ventilation comfort requirement.**

Apartment buildings, in particular, demand adequate ventilation to prevent damage to the building fabric, such as that caused by fungal growth. For this, STIEBEL ELTRON offers appliances for ventilation only – both for new build and modernisation. The benefit being that existing heating and DHW systems can stay in use.



Solar collectors. You'll smile too when the sun shines.

A solar thermal system offers first-rate possibilities for gaining usable energy for the household from the sun. It captures the sun's radiant energy and converts it into warmth for heating or hot water. A low-maintenance and economical technology that is twice as pleasing when the sun smiles down.

Solar thermal systems.

Where the insolation energy is converted into heat, we refer to solar thermal systems. This heat is used to provide central heating backup and DHW heating. The fact that almost 90 % of all energy in the average household is expended on central heating and DHW heating speaks very much in favour of solar thermal systems.

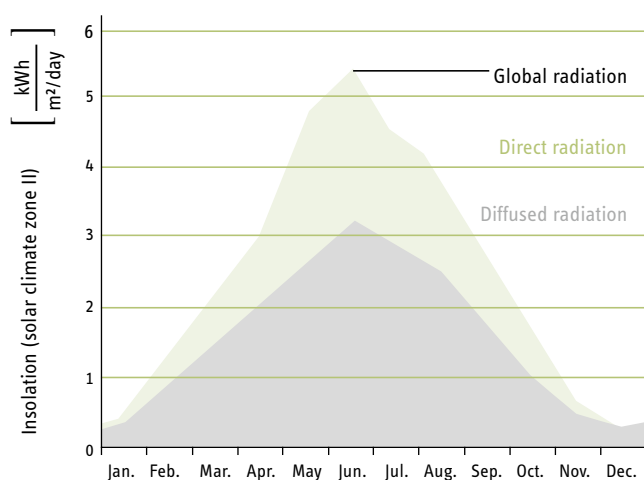
Solar collectors from STIEBEL ELTRON are distinguished by their excellent absorption of insolation, low radiation losses and an impressively long service life. The sum of all technical components enable them to achieve an extremely high collector efficiency in excess of 80 %. The high performance products from STIEBEL ELTRON feature the highest manufacturing quality utilising ecologically sound materials.

A gift from the sun.

Sunshine differs in intensity. During the warmer months from May to September, a solar thermal system can cover up to 90 % of the heating energy demand. Even in December, the low winter sun can still contribute a share of up to 25 %. Taken over 12 months, the sun can contribute up to 70 % of the energy demand required for generating domestic hot water.

The collected heat is stored via special indirect heat exchangers inside a DHW cylinder that supplies various draw-off points. If you connect a dishwasher that is compatible with solar energy, for example, you will save electricity that would otherwise have to be expended to heat the water.

Solar radiation during the course of the year



In Germany, a solar thermal system can save up to 70 % of the annual energy costs associated with generating hot water.

Simply enjoy the sun.

Solar collectors from STIEBEL ELTRON offer a high level of convenience in all areas. Their operation is fully automatic and extremely low in maintenance requirements. This way, these systems make an important contribution to meeting all Energy Saving Ordinances, they increase the value of your property and can significantly lower energy costs. Furthermore, solar collectors can also be combined to form a complete system for renewables.

Let the sunshine in.

Every year in Germany, the sun shines for between 1,400 and 1,900 hours. This delivers up to 1,000 kWh per m²/annum free of charge – corresponding to an energy content of approx. 180 kg lignite, 230 kg wood fuel or 95 m³ natural gas.

Nice savings.

With a collector area of 4–6 m², a family of seven can cover around 70 % of their annual hot water demand.



Heat pumps.
Take advantage of our
energy-rich environment.

“A boiler consumes gas or oil.
A heat pump does not. Instead, it
uses energy from the environment
that is available without limit.
I find that suits me better.”



Likes working in the open. Heats and cools inside.

Make room in your cellar | The WPL E is well able to perform in the open, thanks to a robust casing, extremely quiet operation and its special sound insulation hood. Only the power connection and the supply pipes to the cylinder need to be routed through the cellar wall. The WPL cool version with integral cooling function brings all of the advantages of advanced room tempering to you. An electronic expansion valve ensures optimum control of all processes. Its unique control technology allows it to adjust perfectly to heating and cooling modes.



WPL E | cool

WPL E | cool

- › Evaporation injection
- › Electronic expansion valve
- › Refrigerant circuit heating of the defrost pan
- › High COPs
- › Time and energy efficient defrosting by reversing the circuit
- › Available as external or internal models
- › With integrated heat and electricity meters

Benefits for your home

- › Ideally suited to modernisation
- › High output and excellent COPs, even at low outside temperatures
- › Efficient defrosting



Heating power in compact form even at the lowest temperatures.

Power in the smallest of spaces | The air | water heat pump WPL E | cool delivers heating power in a compact form. Even at -20°C , this appliance for internal installation still extracts heating energy from the outside air. The WPL E | cool draws outside air through hoses that are routed through two separate cellar openings. An electric booster heater can add extra heating if required.

When it is running, you will barely notice your WPL E | cool heat pump. It already comes complete with all the necessary safety equipment. The defrost function frees the heat exchanger of ice and guarantees trouble free operation. This is because extracting heat from the air can produce condensate, which, under certain weather conditions can freeze and build up on the heat exchanger. The WPL series can be supplied for internal or external installation.

The WPIC air handling module can also be combined with the WPL E | cool.



The WPL E | cool is supplied with outdoor air via flexible hoses.

WPL E | cool with air routing module WPIC

WPL E | cool with air routing module WPIC

- › Evaporation injection
- › Electronic expansion valve
- › Refrigerant circuit heating of the defrost pan
- › High COPs
- › Time and energy efficient defrosting by reversing the circuit
- › For compact installation indoors
- › With integrated heat and electricity meters

Benefits for your home

- › Ideally suited to modernisation
- › High output and excellent COPs, even at low outside temperatures
- › Efficient defrosting



Simply perfect – for apartment buildings too.

Top heating power from the air | For properties with high output demand, the air | water heat pump WPL 34 | 47 | 57 is, in many respects, just the job. Not only can the appliance be easily installed outside, with a height of just 1.5 m, this high performance heat pump is as economical with space as it is with energy. The cascade circuit can expand the already impressive output of this power pack even further. As a result, it also offers a tailor-made solution for apartment buildings of varying sizes. Consequently, this efficient heating technology can now also be used in the modernisation of larger properties with little installation effort.



WPL

WPL

- › Electronic expansion valve
- › Suitable for cascades with higher output requirements
- › Heating flow temperature up to +60 °C
- › With integrated heat and electricity meters

Benefits for your home

- › Low high
- › Evaporator protected against external damage
- › Optional bivalent operation



Saves space and energy. The compact class for new build.

Compact class | In energy-efficient houses with a living area up to 160 m² the WPL 10 IK heat pump can really make the most of its compact strengths. As a complete unit, it comes ready equipped with all the relevant modules: From the air hoses and the heating circuit pump through the expansion vessel and the integral electric booster heater to the safety modules and control systems – the WPL 10 IK comes with all the key components you need for heating operation. The result is a heat pump design which is not only highly energy efficient, but also maximises the available space.

DESIGNPREIS
2008

NOMINIERT

DESIGN PLUS

WPL 10 IK

WPL 10 IK

- › Time and energy efficient defrosting by reversing the circuit
- › Heating flow temperature up to +60 °C
- › Can be used at outside temperatures from +30 °C to -20 °C
- › With integrated heat and electricity meters
- › Easy installation

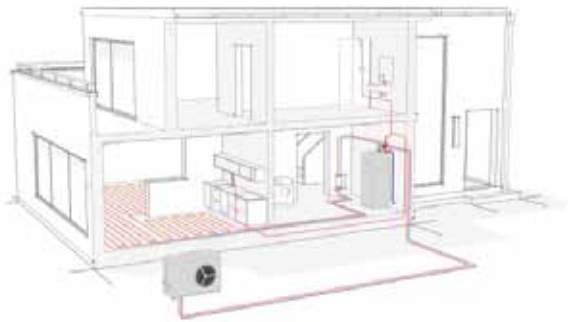
Benefits for your home

- › Ideally suited to new build
- › Low space requirement
- › Circulation pump with energy efficiency category A



Effective heating technology for ambitious new building projects.

Three wishes fulfilled by one appliance | The efficient heating technology of the WPL 10 ACS air source heat pump is specially suited to new building projects. It is very quiet, and its modern design fits harmoniously into any building project you are planning. For example, a combination with the HSBB 10 AC cylinder module, including 200 litre DHW cylinder, provides DHW and central heating. The unit offers a cooling function for summer. The robust design enables installation outdoors, whilst the HSBB 10 AC is installed inside.



WPL 10 ACS with HSBB

WPL 10 ACS

- › Electronic expansion valve
- › Easy installation
- › Refrigerant circuit heating of the defrost pan
- › With integrated heat and electricity meters
- › Heating and cooling

Benefits for your home

- › Ideally suited to new build
- › Extremely quiet operation
- › Low space requirement
- › Active cooling through circuit reversal



Affordable entry into heat pump technology.

Heating efficiency at an entry level price | In the form of the WPL basic air source heat pump, STIEBEL ELTRON offers a highly attractive and affordable entry model with performance characteristics that are above standard in this price segment. It is particularly suitable for new buildings with heating systems that require a low flow temperature. The excellent equipment level, including the electronically controlled expansion valve, large evaporator and optimum defrost technology ensures a high level of efficiency. The corrosion-resistant metal casing with its high level of sound insulation was developed specifically for space efficient installation outdoors.



WPL basic

WPL basic

- › Electronic expansion valve
- › Heating flow temperature up to +60 °C
- › Can be used at outside temperatures from +40 °C to -18 °C
- › Time and energy efficient defrosting by reversing the circuit
- › Refrigerant circuit heating of the defrost pan
- › Optional cascade
- › With integrated heat and electricity meters

Benefits for your home

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



Fully equipped as standard – with high efficiency.

The power unit | This unit packs a real punch. This advanced brine | water heat pump WPF E is truly fully equipped – impressive! As standard, both expansion vessels for heating and brine circuits are fitted, as well as for example, the HE circulation pumps for the heating and brine circuits. The integral heat pump manager regulates the ideal energy supply during operation. This heat pump, with standard heat and electricity meter, is offered in five versions with heating output ranging from 5.8–16.8 kW. These efficient complete systems all have one thing in common, they save energy in the tiniest space.



reddot design award
winner 2009

WPF E

WPF E

- › In five sizes with different output levels
- › Up to +60 °C heating flow temperature
- › Integral heat pump manager
- › Integrated heat and electricity meter
- › Increased efficiency through integral HE circulation pumps
- › Easy installation

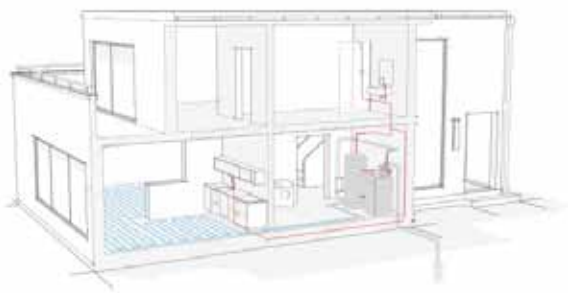
Benefits for your home

- › Fully equipped as standard
- › Extremely quiet operation



Affordable heating energy in winter. Cool ambient air in summer.

The temperature magician | The WPF cool version of this brine | water heat pump combines the benefits of economical heating energy with the comfort of a cool ambience in summer. On hot days, the integral heat exchanger in this highly efficient compact system provides a cooling function. This option works in perfect harmony in conjunction with an underfloor heating system or fan convectors. Consequently, the WPF cool offers a great deal of everyday comfort.



WPF cool

WPF cool

- › Heat pump manager as standard
- › Integral heat exchanger for passive cooling
- › Increased efficiency through integral HE circulation pumps
- › Integrated heat and electricity meter
- › Easy installation

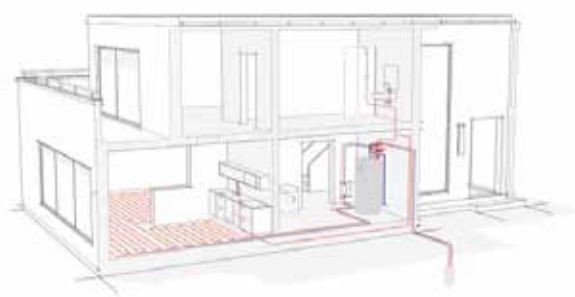
Benefits for your home

- › Fully equipped as standard
- › Extremely quiet operation
- › Integral cooling function



Complete ground source solution for central heating and DHW.

Connected to the earth | The brine | water WPC heat pump is a fully functional complete solution for central heating and DHW. The WPC brine | water heat pump already contains a 200 litre cylinder underneath its soundproof external casing. All safety systems and control components for fully automated operation are integrated as fixed parts of the appliance. The integral DHW cylinder makes this heat pump suitable even where space is at a premium.



WPC

WPC

- › Compact appliance with central heating and DHW functions
- › Easy to install and operate
- › Flow temperature of up to +60 °C
- › Increased efficiency through integral HE circulation pumps
- › May be combined with the LWM 250 ventilation module

Benefits for your home

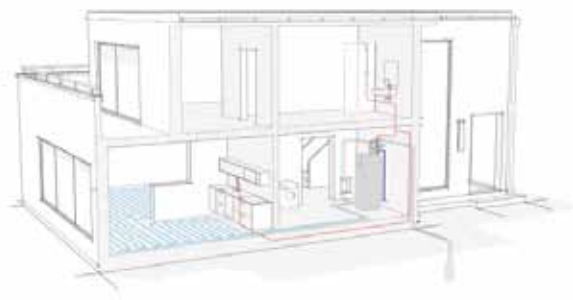
- › Compact solution through integral DHW cylinder
- › Extremely quiet operation



Maximum ventilation – minimum operating costs.

Greater comfort | The ventilation module LWM 250 combines three really important benefits. Firstly, its exhaust air function safeguards a healthy air change and protects particularly energy-efficient houses against humidity damage and fungal attack. In addition, it also reduces heating costs, as latent energy is recovered from the extract air and fed back into the brine circuit. This power pack saves plenty of space and money. This means that you can make do with a smaller ground probe, which in turn reduces the installation costs.

Keeping cool in the summer | The WPC cool version of the brine | water heat pump adds one more unique function to what is already an impressive package. On hot days, an integral heat exchanger can be used for cooling purposes. This allows you to reduce indoor temperatures by several degrees during the hottest part of the summer. It operates perfectly with underfloor heating systems or fan convectors – and its energy demand is minimal!



WPC cool with LWM 250



WPC cool

- › Compact devices offering the following functions:
central heating, cooling and water heating
- › Easy to install and operate
- › Low temperature of up to +60 °C
- › May be combined with the LWM 250 ventilation module
- › Increased efficiency through integral HE circulation pumps

Benefits for your home

- › Minimal operating costs in cooling mode
- › Extremely quiet operation
- › Integral cooling function

Compact model with significant savings potential.

Versatile use of energy | The WPF basic heat pump is a powerful energy provider for DHW and central heating. With its integral heating control unit, circulation pump, safety valve and integral heating element, the unit is really well suited to a complete basement installation. The compact design of this heat pump enables it to fit in perfectly around all building conditions. In addition, the new heating circuit pump, efficiency category A, ensures the highest COP through lower power consumption. That demonstrably lowers running costs. The design fits in perfectly into any installation room.



WPF basic

WPF basic

- › Available in five sizes with different output levels
- › Integral heat pump controller
- › Flow temperature of up to +60 °C
- › Integral heating circuit pump efficiency category A

Benefits for your home

- › Compact standard version
- › Timeless design



Advanced heating technology for modern living.

Heat supply in style | The benefits of advanced heat pump technology are multiplying. The WPF series of heat pumps was developed specially to supply heat to larger residential complexes, as well as commercial and industrial buildings. It is suitable for projects with a heat demand of up to 400 kW. On request, including DHW provision. The model range includes five heat pumps ranging from 20 kW to 66 kW. A cascade circuit enables one or several appliances to provide the base cover for heat; peak loads are covered by starting additional appliances. That demonstrably lowers running costs. When several appliances are used, two heat pumps can be stacked to save space. This way, heat pump systems not only save energy, but also space.



WPF

WPF

- › Individual devices in five output stages
- › Very high efficiency
- › Heating flow temperature up to +60 °C
- › Space-saving concept – up to two modules can be stacked
- › Modern, robust design

Benefits for your home

- › Specially developed for larger residential systems, as well as commercial and industrial buildings
- › Optional remote monitoring by PC



Big plans require big solutions.

Highly innovative | The new WPF 27 HT brine | water heat pump is ideal for DHW heating, for example in a WPF cascade. High flow temperatures up to +75 °C eliminate the need for a booster heater. With these high temperatures, even traditional radiators can be used. The WPF 27 HT is ideal for use in residential units, commercial and industrial buildings. Even in cascade operation little space is required as two units can be stacked together. The sound-optimised casing ensures extremely quiet operation. This robust single compressor heat pump can easily be positioned by means of a pallet truck or via lifting eyes.

WPF 27 HT

WPF 27 HT

- › Heating flow temperature up to +75 °C
- › High reliability through robust single compressor design
- › Heat source application limits from -5 °C to +20 °C
- › With integrated heat and electricity meters

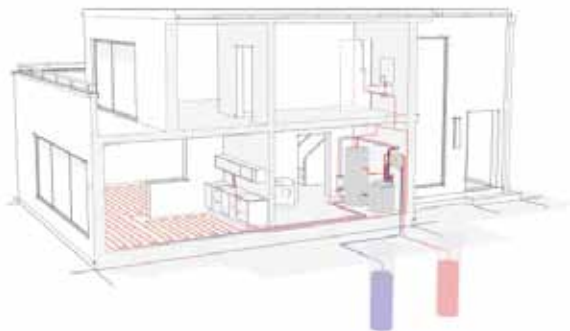
Benefits for your home

- › Two appliances can be stacked
- › Extremely quiet operation
- › Ideal for DHW heating in apartments and older buildings



Heating energy from groundwater – safe and economical.

Heat energy | The WPF E | basic heat pump with the GWS module draws its heating energy from the latent energy stored in groundwater. Through an appropriately sized on-site well, the WPF heat pump exploits a virtually limitless supply of energy. Two well boreholes are sufficient to be able to utilise the energy in groundwater. In many cases that is more favourable than drilling for geothermal probes for a brine | water heat pump. One benefit: groundwater has a relatively constant temperature all year round, enabling the heat pump to operate with a consistently high COP. The high grade equipment inside the GWS module, such as the plate heat exchanger made from corrosion-resistant stainless steel, ensures a long service life and smooth operation. The GWS module can be combined with almost all brine | water heat pumps.



WPF basic with GWS (Illustration without brine assembly)

WPF E | basic with GWS

- › Five output levels
- › Integral heat pump controller
- › Up to +60 °C heating flow temperature

GWS

- › For the utilisation of groundwater as heat source
- › For connection to brine/water heat pumps
- › Casing made from insulating plastic



Benefits for your home

- › Extremely quiet operation
- › High operational reliability
- › High COP through the utilisation of the heat source temperature offered by groundwater

More hot water on a smaller footprint.

Space benefit through twin function | In any location where space is at a premium, the SBS cylinders really come into their own. These cylinders are buffer and instantaneous water heater cylinders in one. As a result, the highly effective heat exchangers only need to hold small amounts of DHW in order to be able to supply hot water to the entire building. They can also be used in conjunction with environmentally-friendly solar energy, as the internal solar indirect heat exchanger makes connecting additional renewables as easy as can be. That turns these combi cylinders into real power packs for your installation room.

SBS W

SBS W | SBS W SOL

- › Cylinders with 600, 800, 1,000 and 1,500 litres (subject to device)
- › Combined: DHW heating and buffer cylinder in one
- › Hygienic DHW heating through instantaneous water heater operation
- › Prottemp-Flow inlet for zoned heating and discharge
- › Can also be combined with additional heat sources and a solar heating system (SOL version)

Benefits for your home

- › Universal application options
- › Space saving through twin functions in one cylinder



Central problem solver in complex heating systems.

Storing heat in grand style | The SBP is designed as a central buffer cylinder for large heat pumps in single or cascade installations. The integral heat exchanger equips the SBP E SOL for combination with a solar thermal system. As an option, up to two further heating systems with gas, oil or pellet combustion, as well as threaded immersion heaters can be connected. This makes the SBP the central interface between diverse energy systems – and this with minimal heat losses.

A cool calculation | The SBP cool model enables rooms to be cooled on hot days by holding cooled water for the reverse operation of the heat pump. Consequently, the SBP cool fully utilises the whole performance spectrum of a heat pump-based heating system – in winter and summer alike.

SBP E | SBP E SOL | SBP E cool

- › Cylinders with 100, 200, 400, 700, 1,000 and 1,500 litres (subject to device)
- › Problem solver in complex heating systems
- › Can also be combined with additional heat sources and a solar heating system (SOL version)

Benefits for your home

- › Optional cooling operation (cool version)
- › Specially sized for high heat pump output

SBP E



Perfectly matched to large heat pumps and heating modules.

Heating and storing water | The WTS DHW charging station is required where large amounts of energy are transferred outside the cylinder. It creates the ideal interface between the heat pump and the SBB 751-1001 floorstanding cylinders. This enables trouble-free heating, even of large DHW cylinders. The DHW charging stations make it possible to combine different heat pump types with the large enamelled SBB 751-1001 DHW cylinders.



The WTS 30 is required for DHW heating and cylinder heating in conjunction with a heat pump.

SBB 751-1001 SOL

SBB 751-1001 | SBB 751-1001 SOL

- › Cylinder with up to 1,000 litres nominal capacity
- › DHW heating can also be combined with a solar thermal system (SBB SOL)
- › Matching components for cylinder and charging station (subject to heat pump size and DHW demand)

Benefits for your home

- › For use in conjunction with large heat pumps designed for apartment blocks and industrial buildings
- › Powerful DHW heating with the WTS 30 and WTS 40 heating modules, designed specifically for heat pumps



Lots of space for storing heat from solar or heat pump.

Excellent storage space for heat from solar or heat pump systems | Generally, hot water is always required in households. If you have the opportunity to utilise renewables to deliver this convenience, so much the better. Precisely that opportunity is offered by the SBB basic and SBB WP basic DHW cylinders. The SBB basic DHW cylinder stores the energy from solar thermal systems and the SBB WP basic stores the energy yielded from the operation of heat pumps. For this, the cylinder for solar operation is fitted with two large area internal indirect heat exchangers, whilst the cylinder for heat pump operation features one specially designed internal indirect heat exchanger.

This series, characterised by solid and reliable technology, is focused entirely on function. Low heat loss through directly applied foam insulation and high solar input via large heat transfer area. All available at a favourable price, in the medium to lower price segment.

SBB basic

SBB basic | SBB WP basic

- › A lower indirect solar heat exchanger, and a reheating heat exchanger above in the SBB basic version
- › Optional heat pump operation through connection of the indirect heat exchangers in series, using the connection pipe bend (VRB-WT)
- › Large area indirect heat exchanger for heat pump operation for the SBB 300/400/500 WP basic
- › Low heat loss through directly applied PU foam insulation
- › Optional flanged immersion heater FCR or threaded immersion heater BGC

Benefits for your home

- › Large heat transfer area for high solar and heat pump input
- › May be combined with an additional heat source thanks to a second indirect heat exchanger (SBB basic)



Draws energy from the air, keeps costs at rock bottom.

Catching waste heat | Where DHW heating from renewable sources is concerned, the WWK offers a quick and convenient solution. Advanced heat pump technology enables the utilisation of ambient air to supply a household or a business with hot water. Equipped with a suitable fan, the WWK heat pump simply draws in the warm air and extracts any surplus thermal energy from it. The energy yielded as a result is then used to heat DHW. The intelligent energy management system reclaims the latent heat for universal use, thereby reducing the energy costs. An entire detached house can be supplied with hot water by feeding the recovered heat into the integral cylinder. An integral booster heater closes any energy gap should the demand temporarily rise higher than intended.



WWK 300

WWK 300

- › Comfort series in different versions
- › Can also be combined with a solar heating system (SOL version)
- › Dehumidifies and protects the fabric of the building
- › Integral electric booster heater
- › Extremely quiet operation
- › Integral interface for intelligent energy management

Benefits for your home

- › Efficient DHW heating throughout the year
- › In the summer months, the oil boiler can be switched off
- › Up to 75% reduction in energy costs for DHW heating



Simply connect and enjoy hot water straight away.

Hot water made easy | Installation rooms are often unintentionally and passively heated, either through a boiler or through electrical appliances that radiate a lot of energy. Rather than allowing it to remain unused, the WWK heat pump reclaims this thermal energy. As a space-saving standard version, this DHW heat pump supplies a household or small business with 300 litres of hot water, at temperatures up to +60 °C. Installation of this device is genuinely easy. The WWK 300 A draws its energy from the ambient air and transfers it to the integral cylinder. The fully wired heat pump only needs to be connected to the water mains.



WWK 300 A

WWK 300 A, AH, AP, AHP, GP

- › Standard round version
- › Up to +60 °C in heat pump mode
- › COP 3.71 to EN 255 when heating +55 °C

Benefits for your home

- › Efficient DHW heating throughout the year
- › In the summer months, the oil boiler can be switched off
- › Hygienic DHW heating without electric booster heater



Ventilation systems for a fresh ambiance.

“I have to let you in on the secret of our low heating costs: A system with heat recovery that lets the stale air out and brings the fresh air into the house without causing energy losses. Venting no longer means opening my windows – that’s what makes the difference.”

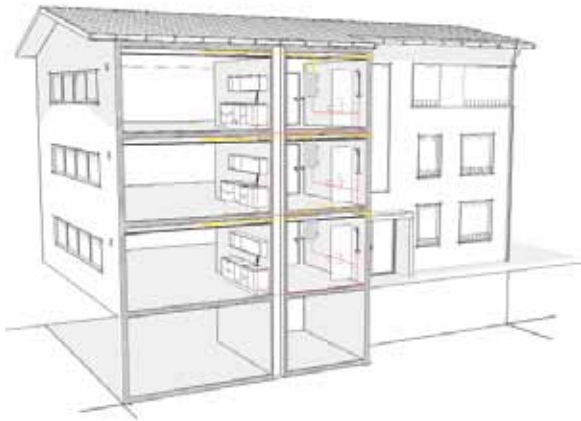


Very quiet – your ventilation. Very high – your DHW convenience.

Fresh air for better comfort | The LWA 100 central ventilation system, with its extremely quiet ventilation fan, generates a slight negative pressure in the connected rooms. Fresh air flows in from the outside through individual supply air valves. A highly efficient heat pump extracts the residual energy from the extract air and feeds it into the integral 100 litre cylinder. The waste heat heats the DHW to around +55 °C, covering the DHW demand for the entire apartment. A 3 kW emergency heater supplements the heating output in cases of higher DHW demand, as a result of which there is always enough hot water on tap. The LWA 100 is suitable for retrofitting.



The LWA 100 always ensures a pleasantly fresh ambience.



LWA 100

LWA 100

- › Automatic ventilation provided independently of tenant behaviour
- › No changes required to the fabric of the building
- › Centralised extract air and decentralised supply air

Benefits for your home

- › Compact device offering the following functions:
Ventilation and DHW heating
- › Easy calculation of additional costs for DHW and central heating, etc.
- › Fresh air from outdoors



This system is an excellent investment for improved air quality.

Energy recovery against the flow | The LWZ 70-270 is well suited to supplying fresh air to entire apartments as a central ventilation system. Using the counter current flow system, it extracts thermal energy from extract air and uses this energy to heat up the incoming fresh air. Thanks to this innovative method, up to 90 % of the energy can be recovered.

As a central ventilation device for living area of up to 290 m², the LWZ 270 unit has been designed to be a slightly more powerful unit. In the process, an easily replaceable filter cleans any dust particles from the air.



LWZ 270 plus

LWZ 70-270 plus

- › Available in three sizes with different output levels
- › Central supply and extract air system for optimum air quality
- › Pollutants are continuously transported away from your living space
- › Heat recovery up to 90 %
- › Cooling effect via night ventilation function available on LWZ 170 plus/270 plus models
- › Special solution for multi-storey apartment buildings (LWZ 70)

Benefits for your home

- › Easy to adjust and operate
- › Energy efficient through high levels of heat recovery
- › High living comfort through optimum air quality



New level of ventilation quality for older apartments on different floors.

A fresh atmosphere | The LWZ 100 | LWZ 100 plus was developed especially to supply multi-storey apartment buildings with fresh air. The system provides energy-saving ventilation for living spaces up to 100 m². It is extremely space-efficient, as the entire system is integrated behind false ceilings. With little effort, this ensures a ventilation quality previously only achieved in new build.



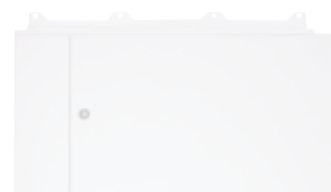
LWZ 100 plus

LWZ 100 | LWZ 100 plus

- › R.h. and l.h. version for outside air and expelled air connection
- › Hours run and air flow meters
- › Integral air preheating element
- › Reliable condensate drain via a condensate pump
- › Optional cooling effect via automatically controlled summer bypass (plus version)
- › Integral humidity sensor ensures pleasant humidity levels inside the living space

Benefits for your home

- › Space efficient through installation in the ceiling
- › Energy efficient through high levels of heat recovery
- › High living comfort through optimum air quality



The fresh air network for your home.

Enjoy that fresh air feeling! In modern, well insulated buildings, an automatic ventilation system with heat recovery should be taken advantage of, if possible. Those who make the decision in good time, can have the necessary ductwork installed at the same time as other services for heating and power. That makes the essential pipework invisible in new buildings, as it is hidden in the insulation level between the concrete ceiling and the screed. For this method, STIEBEL ELTRON offers the LVE system.



Air distribution system LVE

- › Easy plug-in system for a rapid installation
- › Suitable for supply and extract air
- › High air flow rate of up to 45 m³/h
- › High level of flexibility through versatile air distributor with 4 connections
- › Flexible application with floor, ceiling and wall outlets

Benefits for your home

- › Optimum air quality through hygienically outstanding air distribution system
- › Affordable through low installation effort

LVE VT 4



LVE FA



LVE WA



LVE BF 90



Solar thermal systems.

Filling up with solar energy every day.

“I’ve thought of a new energy concept for my house. When it comes to gathering energy I thank my lucky star: the sun!”

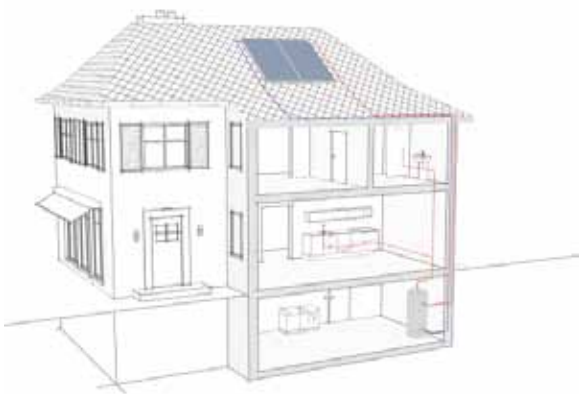


Quick installation and first class efficiency for a high output.

Sky-high energy yield | The new SOL 27 premium flat-plate collectors excel through their first rate energy yield. Over 83 % of the solar radiation is converted into useable energy, thereby increasing the efficiency of the relevant heating and DHW system. The precise combination of innovative materials and proven technology creates excellent efficiency. For example, the highly selective Micro-Therm vacuum coating and anti-reflection glazing ensure top absorption capacity. As the flat-plate collectors can be installed vertical or horizontal, every surface is optimally used. Thanks to the various types of installation, the modules harmoniously blend into any roof.



SOL 27 premium W



SOL 27 premium S

SOL 27 premium S | W

- › High efficiency
- › Anti-reflection glazing
- › Quick installation of the hydraulic connections through a simple plug-in system
- › Slim frame construction
- › Available in vertical and horizontal versions
- › Flexible installation options

Benefits for your home

- › Cost savings through reduced installation time
- › Maximum gains
- › High output for reduced payback time
- › Flexible installation options enable an optimum utilisation of your roof geometry

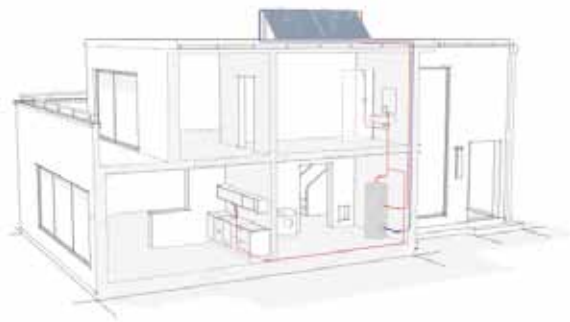


Not just an attractive design – levels of efficiency are pleasing too!

Perfect framework conditions | The flat-plate collectors reliably collect the radiated solar energy and convert it into available heat. Particularly when using several collectors in an array, the cohesive overall image on the roof can become a design feature. Advanced absorber technology captures 79 % of the solar energy. The entry model, SOL 27 basic, has an impressive price/performance ratio. Weighing only 38.5 kg, the SOL 27 basic is as easy to install on pantiled, plain tiled, slate or shingle roofs as it is on flat roofs or on a wall. Available in vertical and horizontal versions for optimum utilisation of the available roof area.



SOL 27 basic



011-7S672 F

SOL 27 basic W

SOL 27 basic | SOL 27 basic W

- › Efficiency 79 %
- › Slim frame construction
- › Rapid installation through quick-acting fixing system
- › Suitable for diverse methods of installation
- › Pre-fitted hydraulic collector interconnection

Benefits for your home

- › Slimline frame design – attractive appearance
- › Low installation costs
- › Attractive price/performance ratio
- › Optimum utilisation of roof geometry through diverse installation options



From installation to efficiency – everything is well thought-out.

Tailor-made for every roof | The SOL 23 premium high performance flat-plate collector blends perfectly into your roof. Quick installation is ensured by a special system connected with flashing frame and plug-in connections for the hydraulic connection. An advanced aluminium full area absorber with highly selective Micro-Therm vacuum coating and anti-reflection glazing ensure excellent efficiency. The sturdy casing is made from seawater-resistant aluminium profiles.



SOL 23 premium

SOL 23 premium

- › High efficiency
- › Quick installation of the hydraulic connections through a simple plug-in system
- › Optional installation on end, side by side, or above each other
- › Anti-reflection glazing
- › No visible hydraulic connections
- › Highly efficient thermal insulation prevents heat losses

Benefits for your home

- › Cost savings through reduced installation time
- › Visually attractive roof integration
- › High output resulting in reduced payback time
- › Solar Keymark certificate confirms high quality claims



One interface for many – hot water for all.

One for all | The SBB plus upright cylinder is where all of the energy comes together. With its parallel connection options for a solar heating system, condensing boiler and electric booster heater, it forms the large interface and meeting point for all the different energy systems. The cylinder will particularly impress with its inner values. Its two specially-designed internal heat exchangers are particularly good at transferring heat in a most efficient manner. At the same time, they are just as resistant to limescale deposits as the entire inner casing, which features a special enamel coating. With maximum operating pressures of up to 10 bar, this unit can deliver a reliable DHW supply even to larger households.

SBB plus

- › Rated capacity 300, 400, 600 litres
- › Provided with standard anti-corrosion protection in the form of a magnesium signal anode
- › Door frame size without thermal insulation: 770 mm (600 litres cylinder)

SBB plus

Benefits for your home

- › Large heat transfer area for high solar input
- › May be combined with an additional heat source thanks to a second indirect heat exchanger



Saving energy is a question of technology. Here are some answers: products that represent the best in clean domestic systems.

STIEBEL ELTRON offers many ways of using energy more efficiently. From single appliances to integrated comprehensive solutions, all of our appliances are distinguished by their outstanding technology. Irrespective of which solution you prefer, you will discover that our technology not only improves energy efficiency, but also your living comfort and convenience.





For us, quality-conscious value-added working and innovative designs are not ends in themselves, but an expression of our aim for perfection.



Air | Water heat pumps



MODEL		WPL 10 ACS	HSBB 10 AC
		227995	227996
Height	mm	900	1921
Width	mm	1270	600
Depth	mm	593	650
Weight	kg	120	160
Refrigerant		R407 C	
Cylinder capacity	l		200
Heating output at A-7/W35 (EN 14511)	kW	5.4	
COP at A-7/W35 (EN 14511)		3.2	
Heating output at A2/W35 (EN 14511)	kW	6.55	
COP at A2/W35 (EN 14511)		3.41	
Min. application limit, heating side	°C	15	
Max. application limit, heating side	°C	60	
Min. application limit, heat source	°C	-20	
Max. application limit, heat source	°C	40	
Suitable for			WPL 10 ACS



MODEL		WPL 10 A	WPL 10 I	WPL 10 IK
		220812	220811	220826
Height	mm	1245	1010	1668
Width	mm	967	758	778
Depth	mm	1122	856	925
Weight	kg	185	166	212
Refrigerant		R407 C	R407 C	R407 C
Heating output at A-7/W35 (EN 14511)	kW	5.4	5.4	5.4
COP at A-7/W35 (EN 14511)		2.9	2.9	2.9
Heating output at A2/W35 (EN 14511)	kW	6.7	6.7	6.7
COP at A2/W35 (EN 14511)		3.2	3.2	3.2
Min. application limit, heating side	°C	15	15	15
Max. application limit, heating side	°C	60	60	60
Min. application limit, heat source	°C	-20	-20	-20
Max. application limit, heat source	°C	30	30	30

Air | Water heat pumps



MODEL		WPL 13 E	WPL 18 E	WPL 23 E	WPL 33	WPIC
		227756	227757	227758	185348	187909
Height	mm	1116	1116	1116	1116	637
Width	mm	784	784	784	784	1240
Depth	mm	1182	1182	1182	1332	800
Weight	kg	210	220	225	260	80
Refrigerant		R407 C	R407 C	R407 C	R407 C	
Heating output at A-7/W35 (EN 14511)	kW	6.77	9.7	13.2	16.5	
COP at A-7/W35 (EN 14511)		3.2	3.3	3.1		
Heating output at A2/W35 (EN 14511)	kW	8.87	11.3	15.73	10.78	
COP at A2/W35 (EN 14511)		3.76	3.73	3.62	3.26	
Min. application limit, heat source	°C	-20	-20	-20	-20	
Max. application limit, heat source	°C	40	40	40	30	
Min. application limit, heating side	°C	15	15	15	15	
Max. application limit, heating side	°C	60	60	60	60	



MODEL		WPL 13 cool	WPL 18 cool	WPL 23 cool	WPIC
		223400	223401	223402	187909
Height	mm	1116	1116	1116	637
Width	mm	784	784	784	1240
Depth	mm	1182	1182	1180	800
Weight	kg	210	220	225	80
Refrigerant		R407 C	R407 C	R407 C	
Heating output at A-7/W35 (EN 14511)	kW	6.6	9.6	13	
COP at A-7/W35 (EN 14511)		3	3.2	3.1	
Heating output at A2/W35 (EN 14511)	kW	8.1	11.28	14.82	
COP at A2/W35 (EN 14511)		3.38	3.72	3.5	
Cooling capacity at A35/W7	kW	6.7	9.2	12.5	
Cooling capacity at A35/W7		2.4	2.4	2.1	
Min. application limit, heat source	°C	-20	-20	-20	
Max. application limit, heat source	°C	40	40	40	
Min. application limit, heating side	°C	15	15	15	
Max. application limit, heating side	°C	60	60	60	

Air | Water heat pumps



MODEL		WPL 34	WPL 47	WPL 57
		228835	228836	228837
Height (external installation)	mm	1485	1485	1485
Width (external installation)	mm	1860	1860	1860
Depth (external installation)	mm	2040	2040	2040
Weight	kg	480	540	600
Refrigerant		R407 C	R407 C	R407 C
Heating output at A2/W35 (EN 14511)	kW	19.23	26.46	29.92
COP at A2/W35 (EN 14511)		3.29	3.53	3.28
Heating output at A-7/W35 (EN 14511)	kW	15.5	22.1	23.9
COP at A-7/W35 (EN 14511)		2.7	3.1	2.7
Min. application limit, heating side	°C	15	15	15
Max. application limit, heating side	°C	60	60	60
Min. application limit, heat source	°C	-20	-20	-20
Max. application limit, heat source	°C	40	40	40



MODEL		WPL 13 basic Standard unit	WPL 20 basic Standard unit	WPL 13 S basic	WPL 18 S basic
		230385	230386	230387	230388
Height	mm	1116	1116	1116	1116
Width	mm	784	784	784	784
Depth	mm	1182	1182	1182	1182
Weight	kg	205	220	205	205
Refrigerant		R407 C	R407 C	R407 C	R407 C
Heating output at A-7/W35 (EN 14511)	kW	7.83	11.63	7.83	9.7
COP at A-7/W35 (EN 14511)		3.02	3.08	3.02	3.05
Heating output at A2/W35 (EN 14511)	kW	8.97	13.46	8.97	11.3
COP at A2/W35 (EN 14511)		3.41	3.43	3.41	3.42
Min. application limit, heating side	°C	15	15	15	15
Max. application limit, 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

Brine | Water heat pumps



MODEL		WPF 5 E	WPF 7 E	WPF 10 E	WPF 13 E	WPF 16 E
		229307	229308	229309	229310	229311
Height	mm	1319	1319	1319	1319	1319
Width	mm	598	598	598	598	598
Depth	mm	658	658	658	658	658
Weight	kg	152	157	169	171	181
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at B0/W35 (EN 14511)	kW	5.92	7.4	10.03	12.83	16.9
COP at B0/W35 (EN 14511)		4.46	4.39	4.54	4.35	4.32
Min. application limit, heating side	°C	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60
Min. application limit, heat source	°C	-5	-5	-5	-5	-5
Max. application limit, heat source	°C	20	20	20	20	20
Expansion vessel volume, heating side	l	24	24	24	24	24
Expansion vessel volume, source side	l	24	24	24	24	24



MODEL		WPF 5 cool	WPF 7 cool	WPF 10 cool	WPF 13 cool	WPF 16 cool
		229312	229313	229314	229315	229316
Height	mm	1319	1319	1319	1319	1319
Width	mm	598	598	598	598	598
Depth	mm	658	658	658	658	658
Weight	kg	160	165	177	182	192
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at B0/W35 (EN 14511)	kW	5.92	7.4	10.03	12.83	16.9
COP at B0/W35 (EN 14511)		4.46	4.39	4.54	4.35	4.32
Cooling capacity at B15/W23	kW	3.8	5.2	6	8.5	11
Min. application limit, heating side	°C	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60
Min. application limit, heat source	°C	-5	-5	-5	-5	-5
Max. application limit, heat source	°C	20	20	20	20	20
Expansion vessel volume, heating side	l	24	24	24	24	24
Expansion vessel volume, source side	l	24	24	24	24	24

OPTIONAL COMBINATIONS					
GWS 1	•	•	•	-	-
GWS 2	-	-	-	•	•

Brine | Water heat pumps



MODEL		WPC 5	WPC 7	WPC 10	WPC 13	WPC 5 S	WPC 7 S	WPC 10 S
		220251	220252	220253	220254	221480	221481	221482
Height	mm	2100	2100	2100	2100	2100	2100	2100
Width	mm	600	600	600	600	600	600	600
Depth	mm	650	650	650	650	650	650	650
Weight (empty)	kg	283	293	303	313	283	293	303
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A	R410 A	R410 A
Cylinder capacity	l	175	175	162	162	175	175	162
Heating output at B0/W35 (EN 14511)	kW	5.92	7.4	10.03	12.83	5.8	7.7	9.9
COP at B0/W35 (EN 14511)		4.46	4.39	4.54	4.35	4.3	4.4	4.5
Min. application limit, heating side	°C	15	15	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60	60	60
Max. application limit, heat source	°C	20	20	20	20	20	20	20
Min. application limit, heat source	°C	-5	-5	-5	-5	-5	-5	-5



MODEL		WPC 5 cool	WPC 7 cool	WPC 10 cool	WPC 13 cool
		220255	220256	220257	220258
Height	mm	2100	2100	2100	2100
Width	mm	600	600	600	600
Depth	mm	650	650	650	650
Weight (empty)	kg	283	293	303	313
Refrigerant		R410 A	R410 A	R410 A	R410 A
Cylinder capacity	l	175	175	162	162
Heating output at B0/W35 (EN 14511)	kW	5.92	7.4	10.03	12.83
COP at B0/W35 (EN 14511)		4.46	4.39	4.54	4.35
Cooling capacity at B15/W23	kW	3.8	5.2	6	8.5
Min. application limit, heating side	°C	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60
Max. application limit, heat source	°C	20	20	20	20
Min. application limit, heat source	°C	-5	-5	-5	-5

Brine | Water heat pumps



MODEL		LWM 250	WPAC 1	WPAC 2
		189999	221357	221358
Rated voltage	V	230	230	230
Air connection	mm	160		
Height	mm	360	540	500
Width	mm	600	510	600
Depth	mm	420	350	170
Weight	kg	31	25	25



MODEL		WPF 5 basic	WPF 7 basic	WPF 10 basic	WPF 13 basic	WPF 16 basic	WPF 5 S	WPF 7 S	WPF 10 S
		230944	230945	230946	230947	230948	074425	074426	220819
Height	mm	960	960	960	960	960	960	960	960
Width	mm	510	510	510	510	510	510	510	510
Depth	mm	680	680	680	680	680	680	680	680
Weight	kg	107.5	113.5	120.5	128.5	131	107.5	113.5	120.5
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at B0/W35 (EN 14511)	kW	5.92	7.40	10.03	12.83	16.90	5.80	7.80	9.90
Power consumption at B0/W35 (EN 14511)	kW	1.33	1.68	2.21	2.95	3.91	1.35	1.78	2.20
COP at B0/W35 (EN 14511)		4.46	4.39	4.54	4.35	4.32	4.3	4.4	4.5
Min. application limit, heating side	°C	15	15	15	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60	60	60	60
Min. application limit, heat source	°C	-5	-5	-5	-5	-5	-5	-5	-5
Max. application limit, heat source	°C	20	20	20	20	20	20	20	20

Module version Brine | Water



MODEL		WPF 7 MS	WPF 10 MS	WPF 10 M	WPF 13 M	WPF 16 M
		222553	222552	185349	182135	220894
Height	mm	971	960	960	960	960
Width	mm	510	510	510	510	510
Depth	mm	640	640	640	640	640
Weight	kg	107	120.5	112	120	125
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at B0/W35 (EN 14511)	kW	7.8	9.9	9.9	13.4	16.3
COP at B0/W35 (EN 14511)		4.4	4.5	4.5	4.4	4.7
Min. application limit, heating side	°C	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60
Min. application limit, heat source	°C	-5	-5	-5	-5	-5
Max. application limit, heat source	°C	20	20	20	20	20

Brine | Water heat pump sets



MODEL		WPF 20 Set	WPF 23 Set	WPF 26 Set	WPF 29 Set	WPF 32 Set	WPF 14 Set S	WPF 17 Set S	WPF 20 Set S
		185365	185366	182139	220896	220897	223416	223417	223418
Height	mm	960	960	960	960	960	971	971	971
Width	mm	1240	1240	1240	1240	1240	1240	1240	1240
Depth	mm	680	680	680	680	680	640	640	640
Weight	kg	224	232	240	245	250	214	219	224
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at B0/W35 (EN 14511)	kW	19.8	23.3	26.8	29.7	32.6	15.6	17.7	19.8
Power consumption at B0/W35 (EN 14511)	kW	4.4	5.3	6.2	6.6	7.0	3.56	4	4.4
COP at B0/W35 (EN 14511)		4.5	4.4	4.4	4.5	4.7	4.4	4.5	4.5
Max. application limit, heating side	°C	60	60	60	60	60			
Min. application limit, heating side	°C	15	15	15	15	15			
Heat source application limit (max.)	°C	20	20	20	20	20	20	20	20
Heat source application limit (min.)	°C	-5	-5	-5	-5	-5			

Brine | Water heat pump sets



MODEL		WPF 20	WPF 27	WPF 40	WPF 52	WPF 66	WPF 27 HT
		223374	223375	223376	223377	223378	230012
Height	mm	1154	1154	1154	1154	1154	1154
Width	mm	1242	1242	1242	1242	1242	1242
Depth	mm	860	860	860	860	860	860
Weight	kg	345	367	415	539	655	409
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A	R134a
Heating output at B0/W35 (EN 14511)	kW	21.5	29.69	43.1	55.83	67.10	27.41
COP at B0/W35 (EN 14511)		4.66	4.85	4.67	4.81	4.56	4.34
Min. application limit, heating side	°C	15	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60	75
Min. application limit, heat source	°C	-5	-5	-5	-5	-5	-5
Max. application limit, heat source	°C	20	20	20	20	20	20

Water | Water heat pump sets



MODEL		WPW 7 E Set	WPW 10 E Set	WPW 13 E Set	WPW 18 E Set	WPW 22 E Set
		231180	231181	231182	231183	231184
Height	mm	1319	1319	1319	1319	1319
Width	mm	598	598	598	598	598
Depth	mm	658	658	658	658	658
Weight	kg	152	157	169	171	181
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at W10/W35 (EN 14511)	kW	7.2	10	12.5	17.1	20.9
Power consumption at W10/W35 (EN 14511)	kW	1.3	1.8	2.3	3	3.7
COP at W10/W35 (EN 14511)		5.4	5.6	5.5	5.6	5.6
Min. application limit, heating side	°C	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60
Min. application limit, heat source	°C	7	7	7	7	7
Max. application limit, heat source	°C	20	20	20	20	20
OPTIONAL COMBINATIONS						
GWS 1		•	•	•	-	-
GWS 2		-	-	-	•	•



MODEL		WPW 7 basic Set	WPW 10 basic Set	WPW 13 basic Set	WPW 18 basic Set	WPW 22 basic Set
		230915	230916	230917	230918	230919
Height	mm	960	960	960	960	960
Width	mm	510	510	510	510	510
Depth	mm	680	680	680	680	680
Weight	kg	107.5	113.5	120.5	128.5	131
Refrigerant		R410 A	R410 A	R410 A	R410 A	R410 A
Heating output at W10/W35 (EN 14511)	kW	7.2	10	12.5	17.1	20.9
Power consumption at W10/W35 (EN 14511)	kW	1.3	1.8	2.3	3	3.7
COP at W10/W35 (EN 14511)		5.4	5.6	5.5	5.6	5.6
Min. application limit, heating side	°C	15	15	15	15	15
Max. application limit, heating side	°C	60	60	60	60	60
Min. application limit, heat source	°C	7	7	7	7	7
Max. application limit, heat source	°C	20	20	20	20	20
OPTIONAL COMBINATIONS						
GWS 1		•	•	•	-	-
GWS 2		-	-	-	•	•
WPSB 308 E		•	•	•	•	-
WPSB 310		-	-	-	-	•

DHW heat pumps



MODEL		WWK 300	WWK 300 SOL
		074361	074362
Height	mm	1792	1792
Width	mm	660	660
Depth	mm	690	690
Weight (empty)	kg	157	180
Lower air temperature limit	°C	6	6
Upper air temperature limit	°C	35	35
DHW temperature with heat pump	°C	55	55
Cylinder capacity	l	303	284
Refrigerant		R134a	R134a
COP L15/F70/W55 (EN 14511)		4.2	4.2



MODEL		WWK 300 AP	WWK 300 AH	WWK 300 A	WWK 300 AHP	WWK 300 GP
		227069	227070	222422	227071	227072
Height	mm	1903	1903	1903	1903	1903
Diameter	mm	660	660	660	660	660
Weight (empty)	kg	125	130	125	130	125
Lower air temperature limit	°C	6	0	0	6	6
Upper air temperature limit	°C	42	42	42	42	42
DHW temperature with heat pump	°C	60	60	60	60	60
Cylinder capacity	l	303	303	303	303	303
Refrigerant		R134a	R134a	R134a	R134a	R134a
COP L15/F70/W55 (EN 14511)		3.5	3.4	3.4	3.5	3.5

Central ventilation units



MODEL		LWZ 70	LWZ 170	LWZ 170 plus	LWZ 270	LWZ 270 plus
		221409	221234	221235	221236	221237
Height	mm	600	602	602	602	602
Width	mm	560	675	675	675	675
Depth	mm	290	445	525	455	535
Weight	kg	25	31	35	31	35
Power consumption	W	10-100	16-130	16-130	12-230	12-230
Air flow rate	m³/h	70-150	70-250	70-250	70-350	70-350
Heat recovery level up to	%	90	90	90	90	90



MODEL		LWZ 100 RE	LWZ 100 LI	LWZ 100 plus RE	LWZ 100 plus LI
		221397	221472	229978	229979
Height	mm	279	279	279	279
Width	mm	1274	1274	1274	1274
Depth	mm	768	768	768	768
Weight	kg	35	35	36	36
Power consumption	W	17-75	17-75	17-75	17-75
Air flow rate	m³/h	35-155	35-155	35-155	35-155
Heat recovery level up to	%	90	90	90	90

Central ventilation systems with DHW cylinder and decentralised ventilation/heating appliance



MODEL		LWA 100	LWA 252	LWA 252 SOL
		221470	074264	074265
Height	mm	1290	1860	1860
Width	mm	510	696	696
Depth	mm	510	735	735
Weight (empty)	kg	65	150	180
Cylinder capacity	l	100	303	290
COP (t)		2.8	4.2	4.2
Heating output heat pump L20/F58/W45	kW	0.8	1.4	1.4
Heating output electric booster DHW	kW	3	1.5	1.5
Extract air flow rate, ventilation		60-130	70-290	70-290

Air distribution system



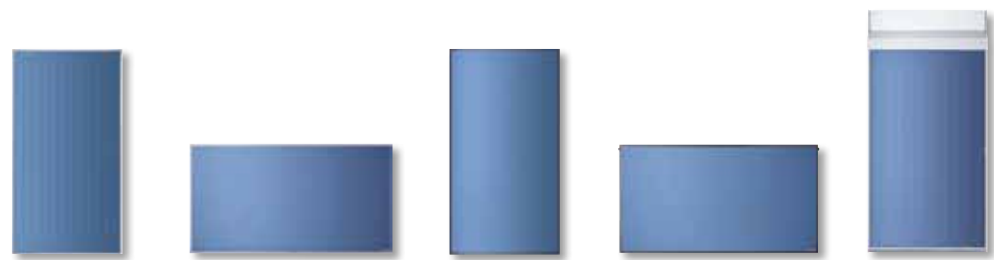
MODEL	LVE 120 Set	LVE 160 Set	LVE 200 Set	LVE 240 Set
	231127	231128	231129	231130
Type of utilisation	Complete system for centralised ventilation of apartments and detached houses	Complete system for centralised ventilation of apartments and detached houses	Complete system for centralised ventilation of apartments and detached houses	Complete system for centralised ventilation of apartments and detached houses
Suitable for	< 125 m ² living space	< 160 m ² living space	< 200 m ² living space	< 240 m ² living space
Number of distributors	3	3	4	5
Length of flexible air duct	m	75	100	125

STANDARD DELIVERY

The set includes

Air distributor for floor or wall mounting, air outlets for floor, wall and/or ceiling, air grilles, flat flexible air duct, folded spiral-seam tube, flexible pipe, profile parts, silencers and installation accessories

Solar collectors



MODEL	SOL 27 premium S	SOL 27 premium W	SOL 27 basic	SOL 27 basic W	SOL 23 premium
	230016	230017	228927	230912	230020
Version	Rooftop	Rooftop	Rooftop	Rooftop	Roof integration
Collector type	Flat-plate collector	Flat-plate collector	Flat-plate collector	Flat-plate collector	Flat-plate collector
Type	On end	Across	On end	Across	On end
Frame colour	silver	silver	silver	silver	silver
Heightmm	2171	1171	2168	1168	2340
Widthmm	1171	2171	1168	2168	1155
Depthmm	96	96	93	93	102
Weightkg	40	40.5	38.5	39.2	54
Casing material	Aluminium see water resistant	Aluminium see water resistant	Aluminium see water resistant	Aluminium see water resistant	Aluminium see water resistant
Collector connection	22 mm plug-in connection	22 mm plug-in connection	G 3/4	G 3/4	22 mm plug-in connection
Max. idle temperature °C	>210	>210	213	>210	>210
Angle of inclination	20°–85°	20°–85°	20°–85°	20°–85°	30°–80°
Total aream²	2.54	2.54	2.53	2.53	2.63
Aperture aream²	2.39	2.39	2.39	2.39	2.04
Absorber aream²	2.38	2.38	2.38	2.38	2.03
Conversion factor η₀	0.82	0.83	0.79	≥0.78	>0.82
Collector yield kWh/(m² p.a.)	>525	>525	>525	>525	>525
INSTALLATION OPTIONS					
Tiled roof	•	•	•	•	
Slate/shingle roof	•	•	•	•	
Plain tiles	•	•	•	•	
Flat roof/wall	•	•	•	•	
Corrugated roof	•	•	•	•	
Roof integration (tiled roof)					•

The output of a collector is subject to global radiation, installation conditions, heat transfer medium temperature and system characteristics. The collector yield is based on a calculation of the annual energy yield in a reference system for DHW heating, with reference to DIN EN 12975 with a fixed coverage of 40 % and a daily consumption of 200 litres in the city of Würzburg.

Solar compact installations



MODEL		SOKI basic 231011	SOKI 6 plus 231012	SOKI 7 plus 231013	SOKI E premium 231014
Height	mm	380	564	564	566
Width	mm	228	306	306	306
Depth	mm	150	150	150	150
Weight	kg	4.4	5.3	5.3	6.6
Circulation pump type		ST 15/6 ECO	ST 15/6 ECO	ST 15/6 ECO	Stratos TEC ST 15/7 PWM
Power consumption - circulation pump	W	44/63/82	44/63/82	44/63/82	0...70
Pump stages		3	3	3	
IP rating		IP20	IP20	IP20	IP20
Connection pipe		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Expansion vessel connection		G 3/4	G 3/4	G 3/4	G 3/4
Safety valve connection		Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
Max. permissible pressure	MPa	0.6	0.6	0.6	0.6
Max. Operating temperature	°C	120	120	120	120
For number of collectors		16	16	16	16

Solar sets

MODEL	Solar-Set basic 150/1 221387	Solar-Set basic 300/2 221388
Type of utilisation	DHW heating	DHW heating
Suitable for ... occupants	2	4
Collector type	SOL 27 basic	SOL 27 basic
Number of collectors	1	2
Total area	m² 2.53	5
Cylinder type	KS 150 SOL	SBB 300 basic
Nominal capacity	l 146	300
STANDARD DELIVERY		
The set includes	Fixing system for tiled roofs, solar control unit, pump assembly, expansion vessel, heat transfer medium, collector sensor well, corrugated hose for routing through the roof	

Accessories for perfectly controlled energy management

Tailor-made convenience | Energy needs careful handling. Advanced control technology from STIEBEL ELTRON puts you in charge. No matter whether you want to regulate an individual appliance, an entire system or a complex plant utilising the most diverse energy sources, the control units from STIEBEL ELTRON always leave you in charge. These devices are so easy to operate they can be set up just the way you want them in no time at all – tailor-made convenience.

Heat pump accessories



FE 7 | The remote control, with room temperature sensor, takes care of adjusting the set room temperatures. In addition, it changes between the day, setback and program operating modes. It may be used for both heating circuits in conjunction with the heat pump managers WPM II and WPMi.



FEK remote control | The digital remote control for the WPC heat pump allows convenient input, display and control of the cooling and heating operation. For this, the appliance takes account of the relative humidity, it monitors the dew point and thereby prevents condensation.



WPM II | The heat pump manager ensures the optimum operation of a heat pump and calculates the most efficient handling of the heating energy. Numerous functions and the combined symbol: plain text display make it incredibly easy to operate this advanced technology.



MSM mixer module | The MSM mixer module has been designed as additional controller with its own time program and further activation options, as well as for controlling a swimming pool.



Sample installation

DCO aktiv GSM | The interactive controller for heat pumps automatically builds the bridge to the customer service. The service partner can check and adjust parameters and even fix faults from afar via a commercially available GSM or analogue modem. Available as COMBOX module including analogue or GSM modem, fully wired in a wall mounted enclosure (COMBOX analogue/ COMBOX GSM).

ComSoft | The ComSoft service program records all information that is relevant to the customer service. The service partner can therefore check all settings and identify any possible faults immediately. The program actively supports the remote monitoring of the DCO aktiv GSM.

Ventilation accessories



FEZ remote control | The remote control switches the fan stages of the ventilation system. In addition, it signals in good time when a filter change is required. In its special party mode it ensures a more rapid air change.



FEQ | The FEQ air quality sensor adjusts the fan stage either automatically or manually and signals in good time when a filter change is required.

Solar accessories



SOM 8 electronic comfort | The solar controller is suitable for large and small solar thermal systems alike, both for DHW heating and central heating backup, as well as swimming pool water heating. In addition, 2 weather-compensated heating circuits, east-west systems and up to 5 cylinders can be controlled. PWM outputs enable variable speed control of high efficiency pumps. The display, with full graphic capabilities, enables statement and process diagrams to be viewed and for these to be recorded on an SD card.



SOM 6 plus | The differential controller for one consumer captures the temperature differential between the collector and cylinder, and enters the process when the specified set value has been exceeded.

SOM 7 plus | The solar controller for use with solar thermal systems for DHW heating and central heating backup. The temperature differential control unit is designed for two consumers.

Buffer cylinder

For heat pump/solar operation



MODEL		SBP 100	SBP 200 E	SBP 400 E	SBP 200 E cool	SBP 400 E cool	SBP 700 E	SBP 700 E SOL
		185443	185458	220824	227590	227591	185459	185460
Nominal capacity	l	100	200	400	200	400	700	700
Max. permissible pressure	MPa	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standby energy consumption/24 h	kWh	0.9	1.5	2	1.1	1.6	2.2	2.7
Height	mm	955	1550	1710	1550	1710	1890	1890
Width	mm	510						
Depth	mm	510						
Weight (empty)	kg	42.5	56	79	58	81	185	216
Heat pump connection		G 1 1/4 A	G 2 A	G 2 A	G 2 A	G 2 A	G 2 A	G 2 A
Heating connection		G 1 1/4 A	G 2 A	G 2 A	G 2 A	G 2 A	G 2 A	G 2 A
Surface area, indirect coil bottom	m ²							2
Height when tilted	mm		1650	1800	1650	1800	2000	2000
Indirect coil connection								G 1
APPLICATION AREAS								
DH/TFH/AB/Commerce		(•) / - / - / -	• / - / - / -	• / - / - / -	• / - / - / -	• / - / - / -	• / • / - / -	• / • / - / -
Heating/cooling/DHW		• / - / -	• / - / -	• / - / -	• / • / -	• / • / -	• / - / -	• / - / -
May be combined with a heat pump/solar/others		• / - / -	• / - / -	• / - / -	• / - / -	• / - / -	• / - / •	• / • / •



MODEL		SBP 1000 E	SBP 1500 E	SBP 1000 E SOL	SBP 1500 E SOL	SBP 1000 E cool	SBP 1500 E cool
		227564	227565	227566	227567	227588	227589
Nominal capacity	l	1000	1500	1000	1500	1000	1500
Surface area, indirect coil bottom	m ²			3	3.6		
Max. permissible pressure	MPa	0.3	0.3	0.3	0.3	0.3	0.3
Height	mm	2240	2154	2240	2154	2240	2154
Diameter	mm	790	1000	790	1000	822	1032
Height when tilted	mm	2335	2250	2335	2250	2335	2250
Weight (empty)	kg	172	229	219	285	173	230
Heat pump connection flange		DN 80	DN 80	DN 80	DN 80	DN 80	DN 80
Heating system connection flange		DN 80	DN 80	DN 80	DN 80	DN 80	DN 80
Connection of additional heat sources		4 x G 1 1/2 A	4 x G 1 1/2 A	4 x G 1 1/2 A	4 x G 1 1/2 A	4 x G 1 1/2 A	4 x G 1 1/2 A
APPLICATION AREAS							
DH/TFH/AB/Commerce		- / • / • / •	- / - / • / •	- / • / • / •	- / - / • / •	- / - / • / •	- / - / • / •
Heating/cooling/DHW		• / - / -	• / - / -	• / - / -	• / - / -	• / • / -	• / • / -
May be combined with a heat pump/solar/others		• / - / •	• / - / •	• / • / •	• / • / •	• / - / -	• / - / -

Buffer and DHW cylinder

For heat pump/solar operation



MODEL	SBS 601 W	SBS 801 W	SBS 1001 W	SBS 1501 W	SBS 601 W SOL	SBS 801 W SOL	SBS 1001 W SOL	SBS 1501 W SOL
	229980	229981	229982	229983	229984	229985	229986	229987
Nominal capacity	600	800	1000	1500	600	800	1000	1500
Content, indirect coil, DHW		42	53	65	32	42	53	65
Surface area, indirect coil bottom					1.5	2.4	3	3.6
Surface area, indirect coil, DHW	7	9	11.5	14	7	9	11.5	14
Max. permissible pressure	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Max. permissible temperature	95	95	95	95	95	95	95	95
Height	1665	1830	2240	2155	1665	1830	2240	2155
Diameter	750	790	790	1000	750	790	790	1000
Diameter incl. thermal insulation	970	1010	1010	1220	970	1010	1010	1220
Height when tilted	1840	1880	2285	2225	1840	1880	2285	2225
Weight (empty)	135	150	175	236	180	195	220	291
Cold water inlet	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
DHW outlet	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A	G 1 1/4 A
Heat pump connection	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A	G 2 A	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A	G 2 A
Heating flow/return connection	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A	G 2 A	G 1 1/2 A	G 1 1/2 A	G 1 1/2 A	G 2 A
Connection of additional heat sources	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A	2 x G 1 1/2 A
APPLICATION AREAS								
DH/TFH/AB/Commerce	• / - / - / -	• / - / - / -	• / • / - / -	• / • / - / -	• / - / - / -	• / - / - / -	• / • / - / -	• / • / - / -
Heating/cooling/DHW	• / - / •	• / - / •	• / - / •	• / - / •	• / - / •	• / - / •	• / - / •	• / - / •
May be combined with a heat pump/solar/others	• / - / •	• / - / •	• / - / •	• / - / •	• / • / •	• / • / •	• / • / •	• / • / •

Buffer and DHW cylinder

For heat pump/solar operation



MODEL		SBK 600/150
		074067
Nominal capacity	l	616
Nominal capacity, DHW cylinder	l	150
Nominal capacity, buffer cylinder	l	466
Surface area, indirect coil top	m²	1.8
Surface area, indirect coil bottom	m²	1.8
Max. permissible pressure, DHW cylinder	MPa	0.6
Max. permissible pressure, buffer cylinder	MPa	0.3
Max. permissible temperature	°C	95
Standby energy consumption/24 h	kWh	2.9
Height	mm	1760
Diameter	mm	920
Height when tilted	mm	1985
Weight (empty)	kg	241
DHW connection		G 1 A
Cold water connection		G 1 A
Indirect coil connection		G 1
Heating flow/return connection		G 1
APPLICATION AREAS		
DH/TFH/AB/Commerce		• / - / - / -
Heating/cooling/DHW		• / - / •
May be combined with a heat pump/solar/others		• / • / •

DHW cylinder

For heat pump/solar operation



MODEL		SBB 301 WP	SBB 302 WP	SBB 401 WP SOL	SBB 501 WP SOL
		221360	221361	221362	227534
Nominal capacity	l	300	280	400	500
Surface area, indirect coil top	m²	3.2	4.8	4	5
Surface area, indirect coil bottom	m²			1.4	1.4
Max. permissible pressure	MPa	1	1	1	1
Max. permissible temperature	°C	95	95	95	95
Standby energy consumption/24 h	kWh	2.1	2.1	2.3	2.3
Height	mm	1700	1700	1875	1976
Diameter	mm	700	700	750	810
Height when tilted	mm	1750	1750	1930	2030
Weight (empty)	kg	156	184	219	260
DHW connection		G 1 A	G 1 A	G 1 A	G 1 A
Cold water connection		G 1 A	G 1 A	G 1 A	G 1 A
Indirect coil connection		G 1 ¼	G 1 ¼	G 1 ¼	G 1 ¼
APPLICATION AREAS					
DH/TFH/AB/Commerce		• / - / - / -	• / - / - / -	• / • / - / -	• / • / - / -
Heating/cooling/DHW		- / - / •	- / - / •	- / - / •	- / - / •
May be combined with a heat pump/solar/others		• / - / -	• / - / -	• / • / -	• / • / -

DHW cylinder

For heat pump operation



MODEL	SBB 751	SBB 1001	SBB 751 SOL	SBB 1001 SOL
	229292	229293	229294	229295
Nominal capacity	750	1000	750	1000
Surface area, indirect coil bottom			3	3.9
Max. permissible pressure	1	1	1	1
Max. permissible temperature	95	95	95	95
Height	1777	2277	1777	2277
Diameter	790	790	790	790
Diameter incl. thermal insulation	1010	1010	1010	1010
Height when tilted	1840	2335	1840	2335
Weight (empty)	210	267	242	296
Charging station connection	G 2 A	G 2 A	G 2 A	G 2 A
DHW connection	G 2 A	G 2 A	G 2 A	G 2 A
Cold water connection	G 2 A	G 2 A	G 2 A	G 2 A
Indirect coil connection			G 1	G 1
APPLICATION AREAS				
DH/TFH/AB/Commerce	- / • / • / -	- / - / • / •	- / • / • / -	- / - / • / •
Heating/cooling/DHW	- / - / •	- / - / •	- / - / •	- / - / •
May be combined with a heat pump/solar/others	• / - / -	• / - / -	• / • / -	• / • / -

DHW cylinder

For heat pump operation



MODEL		SBB 300 WP basic 230867	SBB 400 WP basic 230868	SBB 500 WP basic 230869
Nominal capacity	l	300	400	500
Content, indirect coil	l	20	31.9	38.2
Surface area, indirect coil	m²	3.2	5.1	6.1
Pressure drop at 1.0 m³/h Heat exchanger	hPa	39	60	72
Mixed water volume 40 °C (15 °C/60 °C)	l	519	669	818
Max. permissible pressure	MPa	1	1	1
Test pressure	MPa	1.5	1.5	1.5
Max. permissible temperature	°C	95	95	95
Max. flow rate	l/min	38	45	50
Standby energy consumption/24 h	kWh	2.4	2.7	2.9
Height	mm	1580	1500	1800
Diameter	mm	650	750	750
Height when tilted	mm	1730	1750	2010
Weight (full)	kg	461	606	736
Weight (empty)	kg	164	220	260
APPLICATION AREAS				
DH/TFH/AB/Commerce		• / - / - / -	• / • / - / -	• / • / - / -
Heating/cooling/DHW		- / - / •	- / - / •	- / - / •
May be combined with a heat pump/solar/others		• / - / -	• / - / -	• / - / -

DHW cylinder

For solar/heat pump operation



MODEL		SBB 300 plus	SBB 400 plus	SBB 600 plus
		187873	187874	187875
Nominal capacity	l	305	410	600
Surface area, indirect coil top	m ²	1.1	1.3	1.9
Surface area, indirect coil bottom	m ²	1.5	1.7	2.5
Max. permissible pressure	MPa	1	1	1
Max. permissible temperature	°C	95	95	95
Max. recommended collector aperture area	m ²	7.2	9.6	14.5
Standby energy consumption/24 h	kWh	1.9	2.2	2.9
Height	mm	1679	1848	1735
Diameter	mm	700	750	920
Height when tilted	mm	1820	1995	1965
Weight (empty)	kg	154	187	260
DHW connection		G 1 A	G 1 A	G 1 A
Cold water connection		G 1 A	G 1 A	G 1 A
Indirect coil connection		G 1	G 1	G 1
APPLICATION AREAS				
DH/TFH/AB/Commerce		• / - / - / -	• / • / - / -	• / • / • / -
Heating/cooling/DHW		- / - / •	- / - / •	- / - / •
May be combined with a heat pump/solar/others		• / • / -	• / • / -	• / • / -

DHW cylinder

For solar/heat pump operation



MODEL		SBB 300 basic	SBB 400 basic	SBB 500 basic
		230338	230339	230340
Nominal capacity	l	300	400	500
Contents, indirect coil top	l	5.9	6.4	11.9
Contents, indirect coil bottom	l	9.2	10.7	16.4
Surface area, indirect coil top	m ²	1	1	1.4
Surface area, indirect coil bottom	m ²	1.5	1.75	1.9
Pressure drop at 1.0 m ³ /h Indirect coil, top	hPa	14	15	4
Pressure drop at 1.0 m ³ /h Indirect coil, bottom	hPa	22	25	5
Mixed water volume 40 °C (15 °C/60 °C)	l	539	704	857
Max. permissible pressure	MPa	1	1	1
Test pressure	MPa	1.5	1.5	1.5
Max. permissible temperature	°C	95	95	95
Max. flow rate	l/min	38	45	50
Max. recommended collector aperture area	m ²	7.2	9.6	12
Standby energy consumption/24 h	kWh	2.4	2.7	2.9
Height	mm	1580	1500	1800
Diameter	mm	650	750	750
Height when tilted	mm	1730	1700	1970
Weight (full)	kg	461	600	728
Weight (empty)	kg	153	193	228
APPLICATION AREAS				
DH/TFH/AB/Commerce		• / - / - / -	• / • / - / -	• / • / - / -
Heating/cooling/DHW		- / - / •	- / - / •	- / - / •
May be combined with a heat pump/solar/others		• / • / -	• / • / -	• / • / -

DHW cylinder

For solar operation



MODEL	KS 150 SOL
	074098
Nominal capacity	l 146
Max. permissible pressure	MPa 0.6
Max. permissible temperature	°C 95
Max. recommended collector aperture area	m² 2.4
Standby energy consumption/24 h	kWh 1.2
IP rating	IP24
Height	mm 1100
Width	mm 510
Depth	mm 510
Weight (empty)	kg 82
DHW connection	G 1/2
Cold water connection	G 1/2
Indirect coil connection	G 3/4 A
Indirect coil connection	G 3/4 A
APPLICATION AREAS	
DH/TFH/AB/Commerce	• / - / - / -
Heating/cooling/DHW	- / - / •
May be combined with a heat pump/solar/others	- / • / -

Replacement convector



MODEL	AUK 7	AUK 14	AUK 21	AUK 28	AUK 35
	227955	227956	227957	227958	227959
Phases	1/N/PE	1/N/PE	1/N/PE	1/N/PE	1/N/PE
Power consumption	W 32	48	48	50	50
Heating output, low	kW 0.45	0.85	1.2	1.6	2
Heating output, medium	kW 0.65	1.4	1.75	2.1	2.35
Heating output, high	kW 0.65	1.65	2	2.3	2.9
Sound pressure level low at a distance of 1 m	dB(A) 36	34	34	34	34
Sound pressure level medium at a distance of 1 m	dB(A) 45	40	37	38	37
Sound pressure level high at a distance of 1 m	dB(A) 45	51	48	48	45
Operating range min./max.	°C 25-55	25-55	25-55	25-55	25-55
Height	mm 600	600	600	600	600
Width	mm 690	890	1090	1290	1490
Depth	mm 142	142	142	142	142
Weight	kg 21	27	34	42	51

STIEBEL ELTRON INTERNATIONAL GMBH | DR.-STIEBEL-STRASSE | 37603 HOLZMINDEN
TEL +49 5531 702 0 | FAX +49 5531 702 479 | E-MAIL INFO@STIEBEL-ELTRON.COM | WWW.STIEBEL-ELTRON.COM

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