

Many functions in one Home comforts assured

Compact integral systems with up to four building services functions



Yoga gives me a sense of calm so that I'm ready for anything life throws at me. And it's thanks to our truly comfortable atmosphere at home that I can achieve this state. Best of all, our compact system takes care of our ventilation, room heating, cooling and DHW heating needs. This saves energy and allows me to breathe easily.

Comfort through technology



Giving the future a green light

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

Turning the tide ourselves

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

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



Exchange air in the most convenient way

Fresh air is a major contributor to our sense of wellbeing at home. But houses that are especially well insulated allow very little natural air change. With not enough fresh air getting into your home, you end up breathing stale air for far too long. Controlled mechanical ventilation is your convenient solution. Once installed, you enjoy healthy indoor air at all times – without the bother of having to open a window.

Good reasons to enjoy your home comforts

- › Improved indoor air quality
- › Greater living comfort through automatic ventilation without having to spend time opening and closing windows
- › Energy efficient ventilation through heat recovery
- › Building fabric protection and fungal mould prevention
- › Hygienic indoor air quality assured
- › Beneficial for allergy sufferers due to good air filtering



Get four times the convenience for your home

Fresh air without ever opening a window, cosy warmth, hot water at all times and pleasant coolness in the heat of summer – these four factors really influence your wellbeing at home. What if you only needed one appliance for them all? LWZ integral systems are clever 4-in-1 solutions that also offer you first class efficiency.

Experience high output on a small footprint

Up to four central building services functions in one appliance – that's what you get from the LWZ series. Experience a unique level of integration. You enjoy great living comfort all year round and benefit from economical consumption. And the appliance that you choose only takes up a little space in your home.

- › Automatic ventilation with heat recovery of up to 90 % of the thermal energy
- › Room heating via highly efficient, integrated heat pump technology
- › DHW heating with an integral 235 l cylinder
- › Optional cooling function with high energy efficiency

Up to four functions – one appliance



Ventilation

The advanced ventilation system keeps the heat inside your home. It recovers up to 90 % of the heat that would otherwise be lost through open windows.



Heating

The integrated air source heat pump easily and efficiently draws the heat for the heating function from the outdoor air and achieves high output levels even at low temperatures.



DHW

Some of the heat drawn from the outdoor air is also used for DHW heating. A large DHW cylinder with excellent insulation ensures low heat losses and a high level of convenience.



Cooling

By simply reversing the refrigerant circuit, the LWZ Premium also enables active cooling, ensuring a fresh ambience in the summer.

Bring a breath of fresh air to your home

Our integral systems make for a more pleasant life. All thanks to their perfectly matched technology. The integrated air source heat pump is an important element of this. It draws in outdoor air via a quiet fan. It then extracts energy from the air and converts it into useful heat for your home, even at icy temperatures of down to minus 20°C. Which means absolutely reliable and cosy warmth in your home no matter how frosty the winter gets.

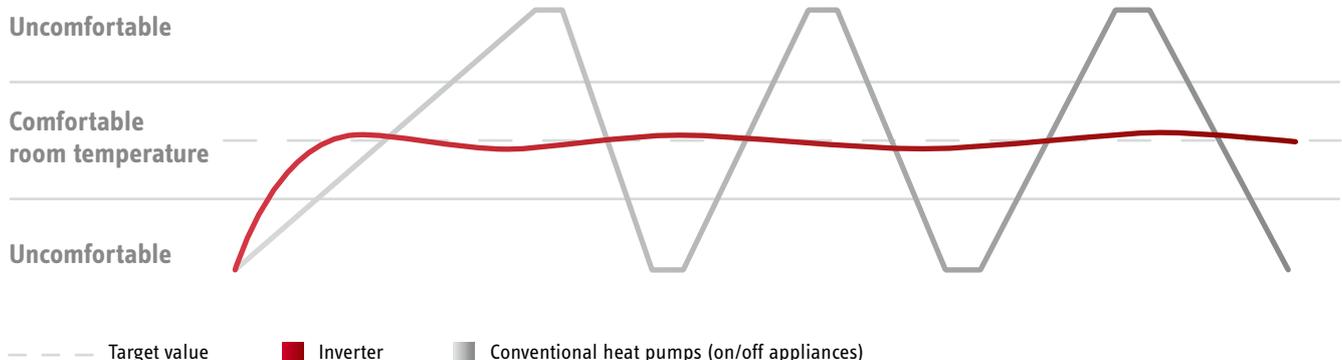
Precisely adjusted heat generation

Conventional heat pumps are either on or off. By contrast, our appliances with inverter technology are much more sophisticated. The air source heat pump integrated into our LWZ integral unit expertly delivers precisely the output needed throughout your home for a comfortable indoor environment. This is not only more energy efficient, but also much less noisy. This is because the fan and compressor operate, on average, with a lower output and are consequently much quieter.

Green technology with impressive properties

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

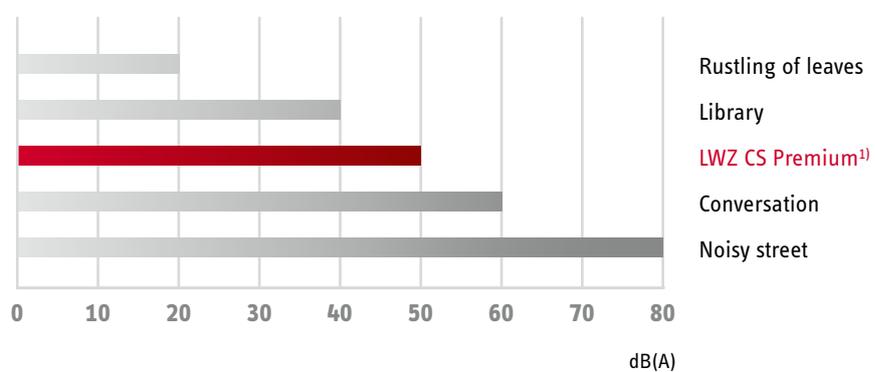
Inverter technology compared to conventional heat pumps



Quietly impressive

With its outstanding sound insulation, the LWZ CS Premium is among the quietest ventilation units on the market. The integral

inverter technology in some models in the LWZ series also ensures that they are extremely quiet.

Comparison of sound pressure levels

¹⁾In the installation room



Make the best choice for all your plans

If you want to feel well looked after in your home, our LWZ series has you covered. These models are true all-rounders and combine up to four functions in one unit – ventilation, room heating, cooling and DHW heating. A healthy indoor environment is ensured, even in homes with an especially airtight building envelope. The integral systems from STIEBEL ELTRON have been specifically designed for new builds that meet the requirements of the German Buildings Energy Act (GEG).

Integral ventilation systems



Model	Page 10
Energy efficiency class, W55/W35	LWZ 8 CS Premium LWZ 5 CS Premium
Room heating Ventilation DHW heating	A++/A++
Integral cooling function	■ ■ ■
ISG-capable Option for PV self-consumption ²⁾	■
Option for integration of solar thermal	■ ■
Heat recovery up to 90 %	■
High air quality	■
Sound-optimised appliance casing	■
Air preheating	■
Heated living space ³⁾	Up to 230 m ²
Product class	Premium

¹⁾In combination with an external DHW cylinder. ²⁾For system and country-specific compatibility and availability, please note the information at: www.stiebel-eltron.de/iotcompatibility. ³⁾For heat load, note assumption of e.g. 40 W/m² heat load/air volume design.



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LWZ 5 S Plus

A+/A++

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Up to 230 m²

Plus



Page 13

LWZ 8 S Trend | LWZ 5 S Trend

A+/A++

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■ | ■

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■

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Up to 230 m²

Trend



Combine convenience and efficiency

LWZ CS Premium integral ventilation system

All in one: this integral appliance combines ventilation, room heating, DHW heating and cooling functions to achieve the maximum effect for your home. Yet the appliance only needs a minimum of space: covering a floor area of just over one square metre, it gives you warm days in winter, coolness in summer and both fresh air and hot water all year round.

Use impressive technology

The inverter technology in the integrated heat pump is a key factor in the appliance's success, enabling it to match its output to your heat demand. This is truly efficient and saves a lot of energy. Together with the sophisticated sound insulation, it also ensures especially quiet operation.

Become more self-sufficient

Further boost the efficiency of your building services solution by combining it with a solar thermal or photovoltaic system. Operate your appliance with self-generated power and become even more self-sufficient in your home.

Top product features

- › Compact appliance with ventilation, room heating, DHW heating and cooling functions
- › Energy saving inverter technology
- › Ventilation with up to 90 % heat recovery
- › Well insulated 235 litre cylinder for high DHW convenience
- › Can be combined with a solar thermal system
- › Also available in balance sets that use sensors for increased ventilation comfort
- › Especially high air quality thanks to the Premium balance set, which precisely regulates the air change rate and requires no manual intervention



Cooling



Heat recovery

Be impressed – three times over

LWZ S Plus integral ventilation system



Imagine you had three wishes, and one appliance could make them all come true. Turn your dream into reality with this system solution, which makes your home pleasantly warm, ensures a healthy air change rate and heats your water.

Experience efficiency every day

The appliance is efficient to operate, and not just on account of the inverter technology. During ventilation, it recovers up to 90% of the heat that would otherwise be lost through opening windows to air your home. Making this model the best possible solution for new build.

Top product features

- › Compact appliance with ventilation, room heating and DHW heating functions
- › Advanced inverter technology for improved efficiency and quieter operation
- › High efficiency thanks to heat recovery during ventilation
- › Simple, intuitive operation with plain text display
- › Attractively priced combination for a pleasant level of living comfort
- › Integral DHW cylinder for mixed water volumes of up to 375 litres at 38 °C



Heat recovery

Store hot water your way

LWZ S Trend integral ventilation system



Cleverly combined and yet extremely flexible functions – that’s the best description of this compact appliance from our LWZ series. The integrated air source heat pump ensures efficient heating, while centralised ventilation also creates a feel-good atmosphere in your home.

Combine with the cylinder of your choice

You enjoy great DHW flexibility. Combine our appliance with an external DHW cylinder of your choosing – you decide on the cylinder size and siting that suit your requirements. DHW convenience doesn’t get more individual than this.

Top product features

- › Compact appliance with ventilation and heating functions
- › Advanced inverter technology for improved efficiency and quieter operation
- › Simple, intuitive operation with plain text display
- › Can be combined with 300 litre or 400 litre DHW cylinder for higher DHW demand
- › Flexible siting in utility rooms where space is at a premium



Heat recovery

Customise your equipment to suit your requirements

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

Ventilation grilles



- › Rectangular air grilles
- › Ideal for floor outlets in the supply air area
- › Particularly stable format for installation in the floor
- › Available in different designs

- › Round air grilles with integral air filter
- › Ideal for wall mounting in the supply air area
- › Wall or ceiling mounting in the extract air area also an option
- › Available in different designs

Ventilation controller



- › FES Komfort
- › Specifically for LWZ integral units
- › For comprehensive operation of functions from the comfort of your living room
- › Intuitive user prompts via the plain text display

Internet Service Gateway



- › ISG web
- › Can be connected to the router of the home network
- › Device settings via an integral web interface
- › Option to control the system via a smartphone web app



- › ISG plus
- › Straightforward system operation
- › High data security
- › Self-consumption optimisation for PV power
- › SG Ready function

Integral ventilation system product comparison

Model		LWZ 8 CS Premium	LWZ 5 CS Premium
Product number		201290	201427
Energy efficiency category, average climate, W55/W35		A++/A++	A++/A++
DHW heating energy efficiency class (load profile), moderate climate		A (XL)	A (XL)
Output at A7/W35 (EN 14511)	kW	4.4	4.4
Coefficient of performance at A7/W35 (EN 14511)		4.74	4.74
Output at A2/W35 (EN 14511)	kW	5.16	5.16
Coefficient of performance at A2/W35 (EN 14511)		3.74	3.74
Output at A-7/W35 (EN 14511)	kW	8.34	5.5
Coefficient of performance at A-7/W35 (EN 14511)		2.61	2.61
Heat availability level up to	%	90	90
Air flow rate	m³/h	80-300	80-300
Storage volume	l	235	235
Height/Width/Depth	mm	1885/1430/812	1885/1430/812
Weight	kg	442	442
Product class Premium/Plus/Trend		■/-/-	■/-/-

Model		LWZ 5 S Plus
Product number		201291
Energy efficiency category, average climate, W55/W35		A+/A++
DHW heating energy efficiency class (load profile), moderate climate		A (XL)
Output at A7/W35 (EN 14511)	kW	4.4
Coefficient of performance at A7/W35 (EN 14511)		4.74
Output at A2/W35 (EN 14511)	kW	5.16
Coefficient of performance at A2/W35 (EN 14511)		3.74
Output at A-7/W35 (EN 14511)	kW	5.5
Coefficient of performance at A-7/W35 (EN 14511)		2.61
Heat availability level up to	%	90
Air flow rate	m³/h	80-300
Storage volume	l	235
Height/Width/Depth	mm	1885/1430/735
Weight	kg	400
Product class Premium/Plus/Trend		-/■/-

Integral ventilation system product comparison

Model		LWZ 8 S Trend	LWZ 5 S Trend
Product number		201684	201292
Energy efficiency category, average climate, W55/W35		A+/A++	A+/A++
Output at A7/W35 (EN 14511)	kW	4.4	4.4
Coefficient of performance at A7/W35 (EN 14511)		4.74	4.74
Output at A2/W35 (EN 14511)	kW	5.16	5.16
Coefficient of performance at A2/W35 (EN 14511)		3.74	3.74
Output at A-7/W35 (EN 14511)	kW	8.34	5.5
Coefficient of performance at A-7/W35 (EN 14511)		2.61	2.61
Heat availability level up to	%	90	90
Air flow rate	m ³ /h	80-300	80-300
Height/Width/Depth	mm	1885/808/725	1885/808/735
Weight	kg	235	228
Product class Premium/Plus/Trend		-/-/■	-/-/■

Recharge your energy with ours

We need energy to live. As a family business, we endeavour to ensure that energy will still be available in tomorrow's world. That is why we advocate environmentally responsible and efficient building services that safeguard investment. We act for the future – yours and ours.

Since 1924, STIEBEL ELTRON has been synonymous with reliable solutions for domestic hot water, heating, ventilation and cooling. We maintain a clear focus in the energy debate: electricity, preferably harnessed from renewables, is the energy of the future. That is why we rely on approximately 3900 employees around the world for efficient heating solutions with green technologies.

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

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



