

# 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



# Give your personal energy transition a boost

Renewable energies are the key to a sustainable heat supply. With a heat pump, you not only improve your personal carbon footprint, but also create secure prospects for your home. That's the way to achieve sustainable wellbeing today.

Making your home energy efficient has become an important component in combating global climate change. There is enormous potential here to reduce energy costs and achieve your personal energy transition. The biggest energy guzzler in residential buildings is the heating system. Almost 80 % of the energy you use goes on heating and hot water.

## Set your sights on a futureproof supply

The time is up for using fossil fuels to generate heat. Fortunately, there is an alternative that leaves oil and gas in the shade: a heat pump allows you to use the heat contained in the air, water and the ground, and make it usable for your home. This improves your personal carbon footprint, makes you more independent and best of all: you don't lose the heating and hot water convenience you are used to. Powered by green electricity, the heat pump is simply unbeatable in terms of sustainability.



[www.stiebel-eltron.com/promise](http://www.stiebel-eltron.com/promise)



# 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.

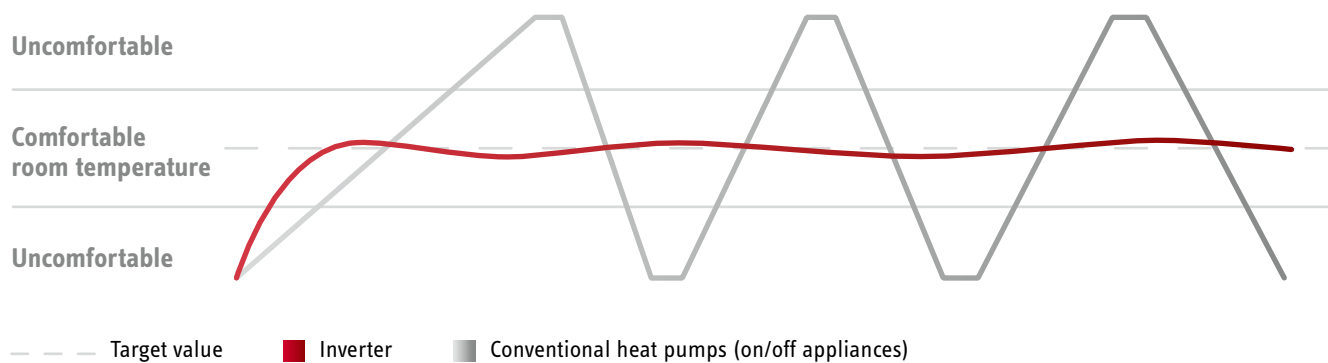
## **Precisely adjusted heat generation**

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

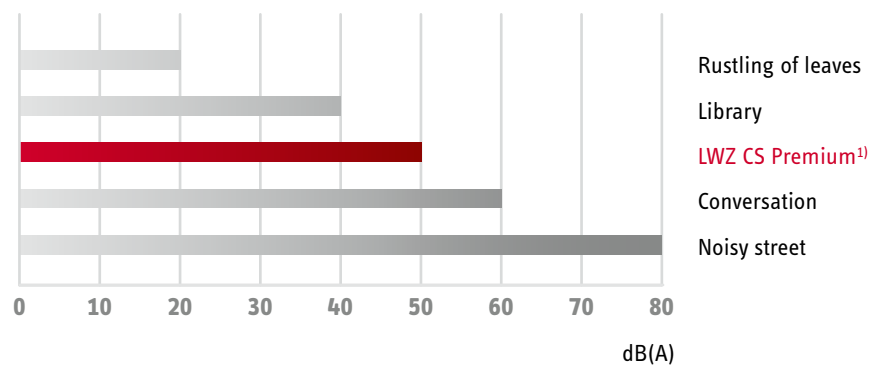


# Quietly convincing

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



<sup>1)</sup>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
Room heating   Ventilation   DHW heating	A++/A++
Integral cooling function	■   ■   ■
ISG-capable   Option for PV self-consumption <sup>1)</sup>	■
Option for integration of solar thermal	■   ■
Heat recovery up to 90 %	■
High air quality	■
Sound-optimised appliance casing	■
Air preheating	■
Heated living space <sup>2)</sup>	Up to 230 m <sup>2</sup>
Product class	Premium

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

<sup>2)</sup> For heat load, note assumption of e.g. 40 W/m<sup>2</sup> heat load/air volume design.



# Combine convenience and efficiency

Compact ventilation unit LWZ CS Premium

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. This enables 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.

## What convinces this product

- › Compact appliance with ventilation, room heating, DHW heating and cooling functions
- › Advanced inverter technology for improved efficiency and quieter operation
- › Can be combined with a solar 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

# 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

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- › 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

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- › Programming unit especially for LWZ integral units (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

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- › Internet Service Gateway as web interface (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



- › Ethernet gateway for easy operation of the system (ISG plus)
- › Straightforward system operation
- › High data security
- › Self-consumption optimisation for PV power
- › SG Ready function

## Integral ventilation system product comparison

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		<b>LWZ 8 CS Premium</b>
<b>Part number</b>		<b>201290</b>
Energy efficiency class		A++/A++
Heat recovery level up to	%	90
Filter class		ePM10 ≥ 50 % (M5)   ISO Coarse > 60 % (G4)
Heating output at A-7/W35 (EN 14511)	kW	8.34
Heating output at A2/W35 (EN 14511)	kW	5.16
Power consumption at A-7/W35 (EN 14511)	kW	3.19
Power consumption at A2/W35 (EN 14511)	kW	1.38
Height	mm	1885
Width	mm	1430
Depth	mm	812
Weight	kg	442
Energy efficiency class, DHW heating (load profile), moderate climate		A (XL)
Product class Premium/Plus/Trend		■/-/-

# Sustainable comfort

Electricity is the future. With the development of green technologies, we advocate innovative, environmentally responsible and futureproof building services – so that you can enjoy sustainable comfort at home. As a family business, 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 5000 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 solutions to meet every 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.

## Partnership with vision

We are a premium and sustainability partner of the Bundesliga football team Borussia Dortmund. As a heating expert, we are supporting the BVB on its path to a CO<sub>2</sub>-free future.

**STIEBEL ELTRON**



**Sustainability Partner**  
of Borussia Dortmund



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