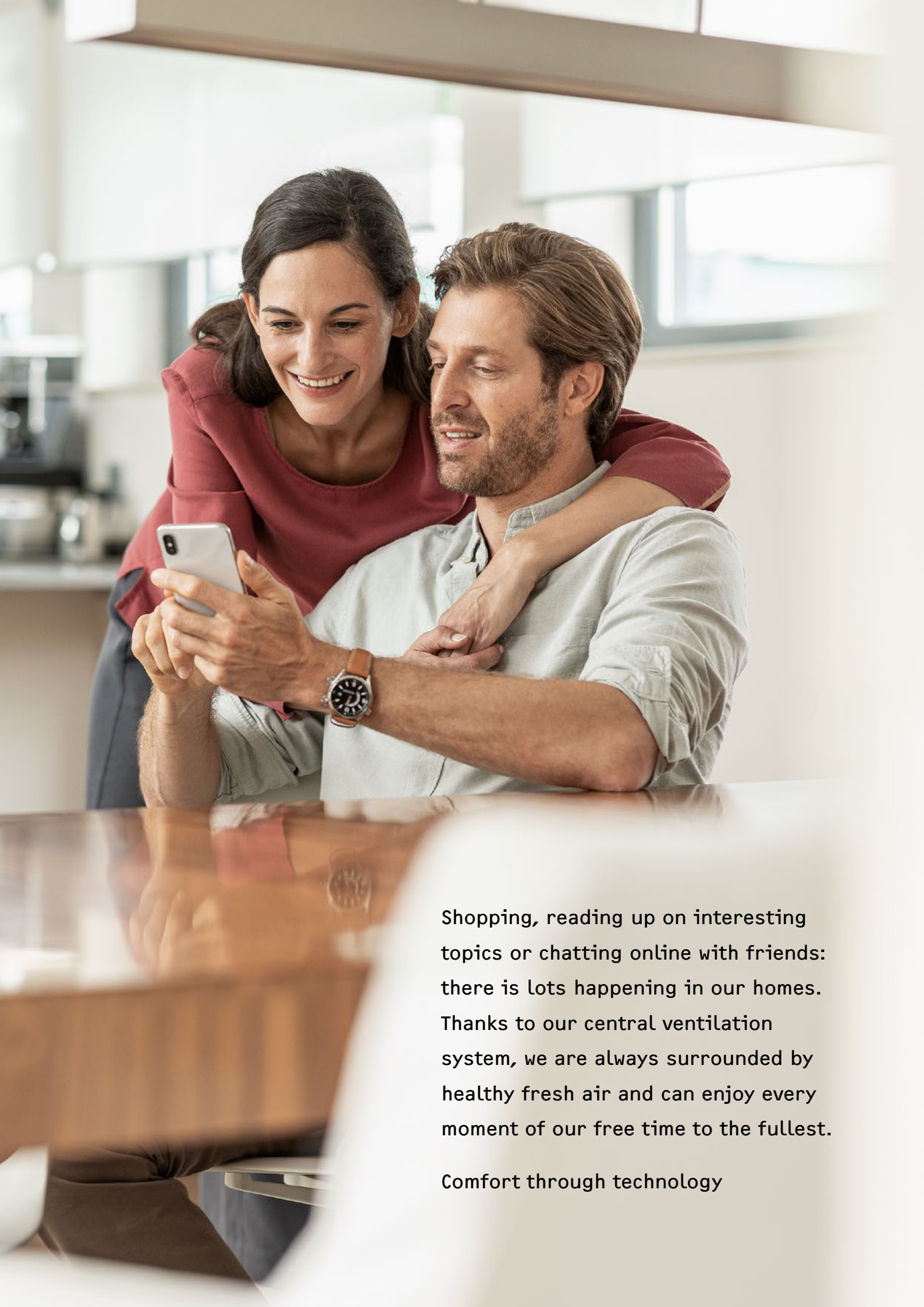


# Breathe more fresh air Keep heat efficient

Central ventilation units for well distributed fresh air





Shopping, reading up on interesting topics or chatting online with friends: there is lots happening in our homes. Thanks to our central ventilation system, we are always surrounded by healthy fresh air and can enjoy every moment of our free time to the fullest.

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.



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



# Exchange air in the most convenient way

Opting for controlled mechanical ventilation makes fresh air a permanent feature in your home. Ventilation stops you and your family breathing in stale air with higher concentrations of pollutants – and saves you the bother of having to open windows, which also let in noise, dust and pollen. Ventilation units are ideal for well insulated houses, which allow very little natural air change. Once they are installed, you can enjoy healthy indoor air at all times.

## **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



# The relaxed route to fresh air

Moisture accumulates in every building, even in your own home. Make sure that it doesn't diminish your living comfort. The easiest way to do this is with a fully automatic ventilation unit. It takes on the important task of air exchange, protecting your health and the fabric of the building. For you, that means convenient ventilation without having to open the windows.

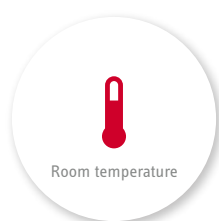
## Enjoy healthy air fully automatically

Fully automatic ventilation takes the current air humidity in the house into account and automatically adjusts the supply of fresh air accordingly. A helpful extra function is heat recovery, which can be as high as 90%. In addition, ventilation units are also fitted with special filters which keep pollen and dust outside – so people with allergies can breathe a sigh of relief.

## Good reasons to enjoy your home comforts

- › Building fabric protection and fungal mould prevention
- › Hygienic indoor air quality assured
- › Beneficial for allergy sufferers due to good air filtering

## Four components for good indoor air



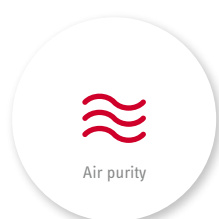
Room temperature

Generally, temperatures between 19 and 23 °C are felt to be comfortable in a house or apartment.



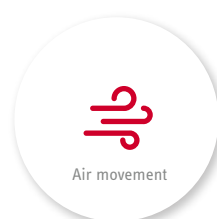
Humidity

In our homes, optimum humidity lies between 40 and 50%. In heated rooms this should not sink below 30% or rise above 60%.



Air purity

For a feeling of wellbeing, the CO<sub>2</sub> content of the air should be as low as possible. Depending on the time of year and the location, fresh outdoor air generally contains around 300 to 400 ppm.



Air movement

For the movement of air within a living space to be perceived as pleasant, its speed should be between 0.1 and 0.15 m/s.

# Make the best choice for all your plans

Breathing freely and deeply does you good. For this positive effect, not just in nature but also in your home, there must be a regular supply of fresh air coming into your living space. You can achieve this with our ventilation units, which replace stale air with fresh air and eliminate the bother of opening windows.

With central solutions, a single unit ventilates your rooms, ensuring a consistent and comfortable level of fresh air throughout the entire living area. The units draw energy from the extract air and use it to heat the supply air. With central extractors, decentralised supply air vents and external wall outlets control the ventilation of your living space. These units utilise energy from the extract air for DHW heating. As a result, efficiency and a healthy living environment go hand in hand.

## Central ventilation units



	Page 08	Page 10	Page 11
<b>Model</b>	<b>VRC-W 400 (E)</b>	<b>LWZ 180/280</b>	<b>LWZ 370/170 (E) Plus</b>
Energy efficiency class	A+ <sup>1)</sup>	A+ <sup>1)</sup>	A
Apartments   detached houses	-   ■	-   ■	-   ■
Installation location	Wall mounted	Wall mounted	Wall mounted
Heat recovery	■	■	■
Automatic demand-dependent ventilation	■	■	■
Available as a Balance or Balance Premium Set	■   ■	■   ■	
Option of humidity recovery (enthalpy)	■	■	
Accessories available for even better air quality	■	■	■
Combination with stove possible	■	■	■
Product class	Premium	Premium	Plus

<sup>1)</sup> Use in the Balance Set enables operation to energy efficiency class A+ <sup>2)</sup> Energy efficiency class, DHW heating (extract air), load profile XL



## Central extractors



Page 12

**LWZ 130**

A

■ | ■

Ceiling mounted

■

■

■

■

Trend



Page 14

**LWZ 70 E**

A

■ | ■

Wall mounted

■

■

Optional

Trend



Page 16

**LWA 252 (SOL)**

A+<sup>2)</sup>

- | ■

Floorstanding

■

Plus



Page 17

**LWA 100**

A

■ | -

Wall mounted

■

Trend





# Enjoy air of the best quality

## VRC-W central ventilation unit

Are you worried that mechanical ventilation is too noisy? Rest assured, this wall mounted model features exceptionally quiet operation. This makes it ideal for use in apartments and detached houses.

### Exchange air and obtain heat

The functions of the ventilation unit can be very conveniently operated with the remote control, which is available as an option. But air exchange alone is not the only benefit: thanks to the integral heat exchanger, this model recovers humidity and thermal energy from the extract air.

### Go further with customised sets

The unit is also available in Balance Sets for operation to energy efficiency class A+. Exceptional air quality can be achieved with the Balance Premium Set, which precisely controls the air change rate without any manual intervention thanks to CO<sub>2</sub> and presence sensors.

### Top product features

- › Central ventilation unit for optimum air quality
- › Automatic ventilation for a high level of convenience; no time wasted opening windows manually
- › Quiet operation thanks to very good sound insulation
- › Best air quality thanks to a choice of filters, including pollen and fine dust filters
- › Easy cleaning and filter change for optimum hygiene
- › Recovery of up to 94 % of the thermal energy in the extract air
- › Even more pleasant indoor air thanks to heat exchanger with moisture recovery (only in enthalpy models)



Available  
as a set



Heat recovery

# Experience quiet air exchange

LWZ 180/280 central ventilation unit



Are you worried that mechanical ventilation is too noisy? Rest assured, this wall mounted model features exceptionally quiet operation. This makes it ideal for use in apartments and detached houses.

#### Exchange air and obtain heat

The functions of the ventilation unit can be very conveniently operated with the remote control, which is available as an option. But air exchange alone is not the only benefit: thanks to the integral heat exchanger, this model recovers humidity and thermal energy from the extract air.



Available  
as a set



Heat recovery

#### Go further with customised sets

The unit is also available in Balance Sets for operation to energy efficiency class A+. Exceptional air quality can be achieved with the Balance Premium Set, which precisely controls the air change rate without any manual intervention thanks to CO<sub>2</sub> and presence sensors.

#### Top product features

- › Automatic ventilation for a high level of convenience; no time wasted opening windows manually
- › Quiet operation thanks to very good sound insulation
- › Best air quality thanks to a choice of filters, including pollen and fine dust filters
- › Recovery of up to 94 % of the thermal energy in the extract air
- › Even more pleasant indoor air thanks to heat exchanger with moisture recovery (only in enthalpy models)

# Achieve healthy air fully automatically

LWZ (E) Plus central ventilation unit



Fresh air is a given with this central ventilation unit. It works fully automatically for a pleasant ambience in your home. Performance, efficiency and convenient ventilation leave nothing to be desired.

#### Cool down on hot days

Do you wish your home was pleasantly cool in the summer? No problem. The unit automatically makes the most of cooler summer nights to cool your home efficiently. So you won't break a sweat.

#### Top product features

- › Automatic, demand-dependent ventilation via a remote control
- › Very quiet operation
- › Recovery of up to 90 % of the thermal energy in the extract air
- › Straightforward operation



Heat recovery

# Make your indoor environment a priority

LWZ 130 central ventilation unit

Space should not be an issue when it comes to fresh air. That is why we have developed this central ventilation unit, which is mounted on the ceiling to save you plenty of room. The compact design is ideal for apartments and smaller detached houses.

## Breathe healthy fresh air

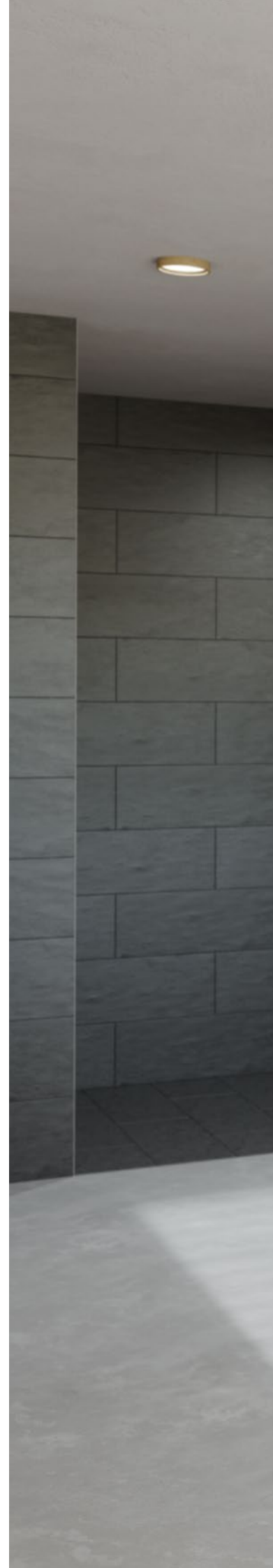
When it comes to output, we like to think big – the ventilation unit recovers a large proportion of the heat and more than half of the lost humidity from the extract air. This allows you to breathe fresh air at a pleasant temperature and a healthy humidity level in your home.

## Top product features

- › Central ventilation unit with heat recovery
- › Space efficient ceiling mounting
- › High living comfort thanks to optimum air quality
- › Increased indoor air quality through moisture recovery
- › Energy efficient ventilation through heat recovery
- › More flexible installation since a condensate drain is not required (only in enthalpy models)



Heat recovery







# Make fresh air the secret appeal of your home

LWZ 70 E central ventilation unit

This ventilation solution illustrates just how discreetly yet effectively healthy fresh air can be brought into your home. The unit is so compact that you can install it in a kitchen wall cabinet. This means it can be easily integrated into your existing layout and is hidden behind the cupboard door.

#### Top product features

- › Unobtrusive installation in kitchen cupboards, recesses or on the wall
- › Recovery of up to 90% of the thermal energy in the extract air
- › Straightforward operation

#### Raise your level of living comfort

Our central ventilation unit is ideal for apartments and despite its compact size has the great performance you expect. It recovers a large proportion of the heat that would be lost with conventional ventilation. This enables you to raise your living comfort to a very high level.



Heat recovery

# Opt for a true team player

LWA 252 (SOL) central extractor



There are lots of benefits to teamwork. This ventilation unit is a good example. If you already have a heat generator and are looking for a fresh air solution for a building with more than 100 m<sup>2</sup>, then this model is the perfect addition. Not only does it supply fresh air to the living space, it also utilises heat from the stale air for DHW heating.

#### Simple installation

The unit ensures decentralised control of the fresh outdoor air supply. The key benefit: hardly any air ductwork is needed and installation is significantly easier. Which is why this extractor is recommended for modernisation projects.

#### Top product features

- › Compact extractor with ventilation and DHW heating functions
- › Particularly energy efficient due to superb thermal insulation of the integral DHW cylinder
- › Can be retrofitted in existing buildings
- › High DHW convenience



Heat recovery



# Combine good air and DHW

LWA 100 central extractor



Do you want a supply of healthy fresh air in your home without having to keep remembering to open the windows? Then our central extractor is the perfect solution. Simply install this model on the wall and let it take care of your fresh air supply.

#### **Easily cover your DHW demand**

That's not all – our compact unit also has an integral water heater. The contained water is heated up by a heat pump using heat from the extract air. This covers the DHW demand for your entire home. And if occasionally more hot water is required, this is handled by an integral booster heater.

#### **Top product features**

- › Compact extractor with ventilation and DHW heating functions
- › Easy, separate hot water billing by means of the electricity meter
- › Fresh air directly from outdoors
- › Wall dehumidification for a comfortable climate

# Customise your equipment to suit your requirements

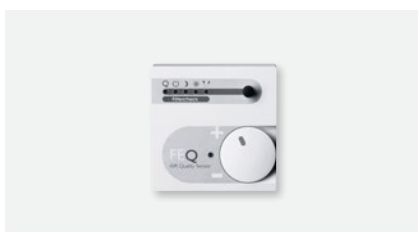
With our extensive range of accessories, you can tailor your level of comfort to suit your fresh air requirements. Regardless of whether you are using individual appliances or complex systems – we can supply you with everything from one source. All our components are perfectly matched to each other so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

## Remote controls

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- › Hardwired programming unit (FEB)
- › Convenient operation of the system from the living space
- › Multifunction display for individual setting of functions
- › Suitable for LWZ 180/280 and LWZ 130



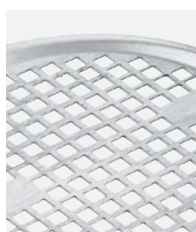
- › Ventilation controller (FEQ)
- › Adjusts the fan stage automatically subject to the prevailing air quality
- › Filter change warning signal subject to hours run
- › Suitable for LWZ 70 E



- › Hardwired programming unit (RC 1)
- › Straightforward adjustment of the fan stages
- › Suitable for LWA 252 (SOL)

## 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

## Central ventilation unit product comparison

Model		VRC-W 400	VRC-W 400 E
<b>Product number</b>		<b>203636</b>	<b>203637</b>
Power consumption	W	169	147
Heat availability level up to	%	94	92
Air flow rate	m <sup>3</sup> /h	60-400	60-400
Height/Width/Depth	mm	997/690/534	997/690/534
Weight	kg	78	80
Product class Premium/Plus/Trend		■/-/-	■/-/-

Model		LWZ 180	LWZ 280	LWZ 180 Enthalpie	LWZ 280 Enthalpie
<b>Product number</b>		<b>232361</b>	<b>232362</b>	<b>236646</b>	<b>236647</b>
Power consumption	W	74	134	74	134
Heat availability level up to	%	94	94	89	89
Air flow rate	m <sup>3</sup> /h	60-250	60-350	60-250	60-350
Height/Width/Depth	mm	997/690/534	997/690/534	997/690/534	997/690/534
Weight	kg	78	78	80	80
Product class Premium/Plus/Trend		■/-/-	■/-/-	■/-/-	■/-/-

Model		LWZ 370 plus	LWZ 170 E plus
<b>Product number</b>		<b>232033</b>	<b>233850</b>
Power consumption	W	9- 172	9 - 138
Heat availability level up to	%	90	90
Air flow rate	m <sup>3</sup> /h	50-400	50-300
Height/Width/Depth	mm	765/677/567	765/677/567
Weight	kg	38	38
Product class Premium/Plus/Trend		-/■/-	-/■/-

Model		LWZ 130	LWZ 130 Enthalpie
<b>Product number</b>		<b>237805</b>	<b>237806</b>
Heat availability level up to	%	94	89
Air flow rate	m <sup>3</sup> /h	50-180	50-180
Height/Width/Depth	mm	248/520/1113	248/520/1113
Weight	kg	18	18
Product class Premium/Plus/Trend		-/-/■	-/-/■

Model		LWZ 70 E
<b>Product number</b>		<b>233851</b>
Power consumption	W	13-112
Heat availability level up to	%	90
Air flow rate	m <sup>3</sup> /h	50-180
Height/Width/Depth	mm	600/560/290
Weight	kg	25
Product class Premium/Plus/Trend		-/-/■

## Central extractor product comparison

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<b>Model</b>	<b>LWA 252</b>		<b>LWA 252 SOL</b>	
<b>Product number</b>	<b>074264</b>		<b>074265</b>	
DHW heating energy efficiency class (load profile), moderate climate	A+ (XL)		A+ (XL)	
Solar integration	-		■	
Power consumption	W	430	430	
Air flow rate	m <sup>3</sup> /h	80-400	80-400	
storage volume V	l	303	290	
Height/Width/Depth	mm	1860/696/735	1860/696/735	
Weight	kg	150	180	
Product class Premium/Plus/Trend	-/■/-		-/■/-	

<b>Model</b>	<b>LWA 100</b>	
<b>Product number</b>	<b>221470</b>	
DHW heating energy efficiency class (load profile), moderate climate	A (M)	
Solar integration	-	
Power consumption	W	350
Air flow rate	m <sup>3</sup> /h	60-130
storage volume V	l	100
Height/Width/Depth	mm	1290/510/510
Weight	kg	65
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 4000 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.



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