

Fresh healthy indoor air with all the savings

Innovative heat recovery ventilation providing healthy indoor air and energy savings





Make your indoor environment a priority

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 need to open 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. Another useful function is heat recovery, which can be as high as 94%. 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

- › Fresh filtered air
- › Minimised levels of CO₂ in your home
- › Reduced symptoms of asthma and allergies
- › Energy efficiency through heat recovery
- › Prevents moisture and mould growth
- › Fewer hay fever symptoms



Find out more about ventilation

Four components for good indoor air



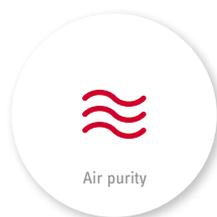
Room temperature

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 CO₂ 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 flow

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 fresh air the secret appeal of your home

LWZ 180/280, VRC-W 400 / E and LWZ 170 E Plus



LWZ 180 / 280

Efficient centralised ventilation systems, delivering up to 94% heat recovery and providing a pleasant ambience in any home. The cross current heat exchanger recovers heat from indoors as it exchanges fresh filtered air from outdoors. The bypass function included in various models uses colder temperatures overnight to help with cooling.

Centralised Heat Recovery Ventilation

- › Filters fresh outdoor air and removes pollutants from the living areas
- › Quiet operation
- › Energy efficient with up to 94% heat recovery
- › Reduces heating and cooling energy costs
- › Easy to change filters
- › Remote control available



LWZ 170 E Plus

The LWZ 170 E PLUS uses a cross-current design to effectively recover the heat in the air indoors as it exchanges this with fresh air from outdoors. The LWZ 170 E PLUS is ideal for low energy buildings and passive homes.

Centralised Heat Recovery Ventilation

- › Up to 90% heat recovery
- › Quiet and low-power operation
- › Replaces indoor air with filtered fresh air from outside
- › Quick cooling effect via night ventilation function
- › Pollutants are removed from indoors
- › Prevents dust, pollen, condensation and mould build up
- › Easily accessible design for filter replacement
- › FEQ air quality sensor available



Ventilation



Indoor installation



Heat recovery





“Prior to installation, the air was laden with a sickly, mouldy smell. As a result, my son suffered very sore eyes and was constantly sneezing. Now the air is fresh – as if one is sitting outside and breathing fresh air in that area. My son’s symptoms have disappeared. Unbelievable difference!”

Marina, NSW

Fresh filtered air for your home

VCR 180 MC centralised ventilation unit



Sensitive Choice is a not-for-profit created by the National Asthma Council Australia in 2006 to inform the public about asthma and allergy management and empower consumers to identify asthma and allergy-aware products and services.

Sensitive Choice products have been certified and approved by an independent product advisory panel.

Healthy indoor air

Achieve a healthy home with ventilation from STIEBEL ELTRON. Air filters installed inside the heat recovery ventilation unit will remove any pollen from the supplied outside air, creating an ideal environment for asthma and allergy sufferers. The cross-flow heat exchanger will capture heat energy from the extracted exhaust air and use it to heat the fresh incoming air.

Top product features

- › Compact and discrete roof installation
- › Replaces indoor air with filtered fresh air from outside, ideal for asthma and allergy sufferers
- › Sensitive Choice Approved Product when used in conjunction with the F7 filter
- › Energy efficient with up to 87% heat recovery
- › Designed for air flow rates of 50 – 180 m³/h
- › Quiet operation



Ventilation



Indoor
installation

*The VCR 180 MC is a Sensitive Choice Approved Product when used in conjunction with the F7 filter.

Efficient ventilation for small builds and apartments

Convenience with a focus on comfort



The compact design of the VCR 180 MC is suitable for apartments and detached houses with a living space of up to 130 m². Mounted on a suspended ceiling, the central ventilation unit also saves space. This model recovers not only around 90% of heat, but also over half of the moisture otherwise lost.

Centralised Heat Recovery Ventilation

- › Central ventilation unit with heat recovery
- › Space efficient through ceiling installation
- › Ideal for apartments and detached houses up to 130 m²
- › High living comfort thanks to optimum air quality
- › Clean indoor air with moisture recovery
- › Energy efficient ventilation through heat recovery



Decentralised ventilation systems are installed in pairs and provide effective ventilation, especially for renovation projects. They ensure filtered hygienic air exchange and eliminate excess moisture with various program settings.

Decentralised Heat Recovery Ventilation

- › Adjustable to wall thickness
- › Straightforward and fast installation in circular or square wall outlets
- › Rapid filter change and visual inspection of the heat exchanger without tools
- › Quiet operation
- › Up to 8 fans can be combined with a single control unit
- › Prevents growth of mould with improved air ventilation



Ventilation



Indoor
installation



Heat recovery

*The VCR 180 MC is a Sensitive Choice Approved Product when used in conjunction with the F7 filter.



SCANDINAVIAN
LIVING
GELUNGENE RENOVIERUNGEN
TIPPS FÜR DAS SELBSTBLAU GEHT
WIRTSCHAFTLICHE WERTPAUSE SCHAFEN
DIESE KLASSE TRAUEN SICH



Strong performance in a compact design

VLR 70 S decentralised ventilation unit

This decentralised ventilation unit supplies fresh air to up to 100 m² of living space. Virtually no heat is lost, as it is fed back into the room with the outdoor air supply. This can help to reduce heating energy losses by as much as 92 %.

Keep pollutants out

Dirt and pollen don't stand a chance of finding their way into your home through this ventilation unit. Particularly good filter performance is achieved due to filters on both the inside and outside of the unit. As a result, people with allergies can breathe a sigh of relief as well.

Top product features

- › Decentralised ventilation unit for rooms with external walls
- › Very easy to clean thanks to the aluminium surface of the heat exchanger
- › Can provide intensive ventilation with low noise emissions
- › High air quality, plus long service life through the use of two filters per fan
- › Fitted with a fine dust/pollen filter making it ideal for allergy sufferers
- › Moisture recovery of up to 60 %
- › Control up to 8 units with the user interface



Heat recovery

Ventilation for schools, childcare, restaurants and offices

VLR-C 300-870 G Premium and VLR-C 300-870 D Premium



The VRL-C was specially developed for use in schools, childcare centres, restaurants and offices. With an air volume flow of up to 870 m³ / h, it reliably ensures an air change that significantly reduces the virus-contaminated aerosol concentration and thus the risk of COVID infection. Available in grill or centralised duct.

Decentralised Heat Recovery Ventilation

- › Decentralised ventilation unit with heat recovery
- › Up to 92% heat recovery
- › Easy installation, even in retrofit projects
- › Lowers CO₂ concentration, aerosols, spores, dust, odours, bacteria and viruses
- › Sound optimised
- › F7 filters (F9 optional)



Ventilation



Indoor
installation



Heat recovery



A focus on comfort



Passive House Certified components

A mechanical heat recovery ventilation unit acts as the lungs of any dwelling built with Passive House principles. The Passive House design process is the path to ensuring very high performance and comfort for the lifetime of your building.

Passive House certified components are independently tested and certified to ensure that you are receiving the highest standards of quality, performance and energy efficiency. Our Passive House certified components include the LWZ180/280 & LWZ 170 E Plus.

Ventilation planning and design service

STIEBEL ELTRON offers a design service to assist with specifying the right ventilation system and ducting configuration to suit your project.

Our team of ventilation system designers in Germany provides a recommendation for the ventilation system required, 3D drawings of the unit and ducting setup, as well as a full components list.

Central ventilation



	Premium	Premium	Plus	
Model	LWZ 180 / LWZ 280	VRC-W 400 / E	LWZ 170 E Plus	VCR 180 MC
Installation	Centralised: wall mounted	Centralised: wall mounted	Centralised: wall mounted	Centralised: ceiling mounted
Heat recovery	Up to 94%	Up to 94%	Up to 90%	Up to 87%
Air volume flow	60 – 250 / 60 – 350 m ³ /h	60 – 400 m ³ /h	50 – 300	50 – 180 m ³ /h
Fan max. power consumption	74 / 134 W	150 W	138 W	105 W
Connection	1/N/PE 230 V	1/N/PE 230 V	1/N/PE 230 V	1/N/PE 230 V
Air duct connection	160 mm	160 mm	160 mm	125 mm
Filter	ePM10 ≥ 50% (M5) ISO Coarse > 60% (G4)	ePM10 ≥ 50% (M5) ISO Coarse > 60% (G4)	ISO Coarse > 60% (G4)	ePM10 ≥ 50% (M5) ISO Coarse > 60% (G4)
Installed in pairs				
Bypass cooling function	■	■	■	■
Preheat element	■	■	■	
Inbuilt display Controller	■ ■	■	■ ■	- ■
Enthalpy core option available	■	■		
Height Width Depth	997 690 534 mm	997 690 534 mm	765 677 567 mm	248 520 1113 mm
Weight	78 kg	78 kg	38 kg	18 kg

* May require additional equipment



Decentralised ventilation



Plus

LWZ 70 E

Centralised: wall mounted

Up to 90%

50 – 180 m³/h

136 W

1/N/PE 230 V

125 mm

ISO Coarse > 45% (G3)

■

■ | ■

600 | 560 | 290 mm

25 kg



Premium

VRL-C 300 D / 870 D

Centralised: ceiling mounted

Up to 92%

100 – 300 / 300 – 870 m³/h

137 / 329 W

1/N/PE 230 V

200 / 315 mm

ePM1 ≥ 50% (F7)
(F9 optional)

■

- | ■

407 | 585 | 1202 | 507 | 902 | 1688 mm

100 / 140 kg



VRL-C 300 G / 870 G

Decentralised

Up to 92%

100 – 300 / 300 – 870 m³/h

137 / 329 W

1/N/PE 230 V

200 / 315 mm

ePM1 ≥ 50% (F7)
(F9 optional)

■

- | ■

407 | 585 | 1202 | 507 | 902 | 1688 mm

100 / 140 kg



Plus

VLR 70 S

Decentralised

Up to 92%

10 – 70 m³/h

92 W (8 units)

1/N 230 V

N/A

ePM1 ≥ 50% (F7)
ISO Coarse > 30% (G2)

■

- | ■

285 | 360 | 590 mm

5.2 kg

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