

# Fresh healthy indoor air with all the savings

- › Innovative ventilation with heat recovery systems providing healthy indoor air and energy savings



# The key to a **healthy** and **comfortable** home

- › Fresh filtered air
- › Minimise levels of CO<sub>2</sub> in your home
- › Reduce symptoms of asthma and allergies
- › Energy efficiency through heat recovery
- › Prevent moisture and mould growth
- › Ease hay fever symptoms



## CARBON DIOXIDE AND INDOOR AIR QUALITY – EFFECTS ON THE HUMAN BODY

Carbon dioxide is a by-product of normal cell function when it is breathed out of the body. As the quality of building standards increases, homes are becoming air-tight to minimise energy loss. This results in the requirement of mechanical ventilation to reduce CO<sub>2</sub> buildup, while still providing fresh filtered air.

- 250 – 350 ppm** Normal background outdoor air level
- 350 – 1,000 ppm** Typical level found in occupied spaces with good air exchange
- 1,000 – 2,000 ppm** Level associated with complaints of drowsiness and poor air quality
- 2,000 – 5,000 ppm** Level associated with headaches, sleepiness and stagnant/stuffy air
- 5,000 ppm** Level where toxicity or oxygen deprivation can occur
- 40,000 ppm** This level is immediately harmful due to oxygen deprivation

# Centralised and decentralised heat recovery ventilation

## A WHOLE-HOUSE SOLUTION

Efficient centralised ventilation systems, delivering up to 94% heat recovery, providing a pleasant ambiance 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

- › Energy efficient with up to 94% heat recovery
- › Reduces heating and cooling energy costs
- › Filters fresh outdoor air and removes pollutants from the living areas
- › Bypass function for greater temperature control
- › Easy to change filters
- › Remote control available
- › Intensive “boost” ventilation function



LWZ 180 / 280

## LOW COST AND EASY INSTALLATION

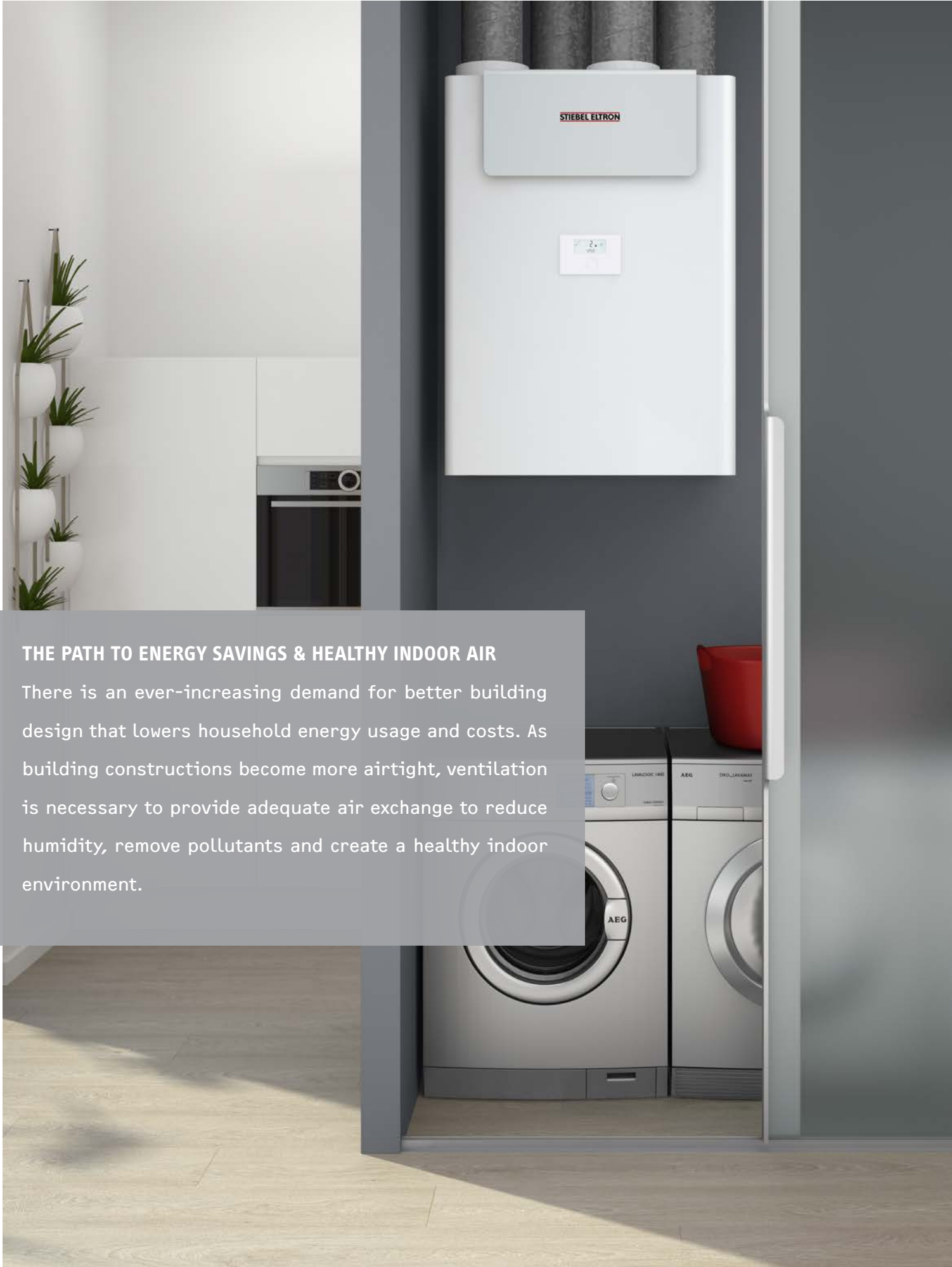
Decentralised ventilation systems are installed in pairs and provide effective ventilation especially for renovation projects. They ensure hygienic air exchange and eliminate excess moisture with various program settings.

### Decentralised Heat Recovery Ventilation

- › Simple installation with telescopic casing
- › Easy maintenance filter for fresh indoor air
- › Quiet operation with up to 92% heat recovery
- › 3 speeds with automatic humidity control
- › Includes controller to link up to 4 pairs



VLR 70 S



## THE PATH TO ENERGY SAVINGS & HEALTHY INDOOR AIR

There is an ever-increasing demand for better building design that lowers household energy usage and costs. As building constructions become more airtight, ventilation is necessary to provide adequate air exchange to reduce humidity, remove pollutants and create a healthy indoor environment.

## HEAT RECOVERY VENTILATION



	PREMIUM		PLUS		TREND	
Model	LWZ 180	LWZ 280	LWZ 170 E PLUS	LWZ 370 PLUS	VCR 180 MC	VLR 70 S
Installation	Centralised: Wall mounted	Centralised: Wall mounted	Centralised: Wall mounted	Centralised: Wall mounted	Centralised: Ceiling mounted	Decentralised
Heat recovery	Up to 94%	Up to 94%	Up to 90%	Up to 90%	Up to 87%	Up to 92%
Air volume flow	60 – 250 m <sup>3</sup> /h	60 – 350 m <sup>3</sup> /h	50 – 300 m <sup>3</sup> /h	50 – 400 m <sup>3</sup> /h	50 – 180 m <sup>3</sup> /h	10 – 70 m <sup>3</sup> /h
Fan max. power consumption	74 W	134 W	138 W	172 W	105 W	7 W
Connection	1/N/PE 230 V	1/N/PE 230 V	1/N/PE 230 V	1/N/PE 230 V	1/N/PE 230 V	1/N 230 V
Air duct connection	160 mm	160 mm	160 mm	180 mm	125 mm	N/A
Filter	M5 / G4	M5 / G4	G4	G4	M5 / G4	F7
Installed in pairs						■
Summer bypass 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	765   677   567 mm	248   520   1113 mm	285   360   590 mm
Weight	78 kg	78 kg	38 kg	38 kg	18 kg	5.2 kg

## 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.

## 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.



Your local trade partner:

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Have we sparked your interest? For further information visit [www.stiebel-eltron.com.au](http://www.stiebel-eltron.com.au) or call our service team on 1800 153 351.



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