AIRWOODS
Innovative Air Solution

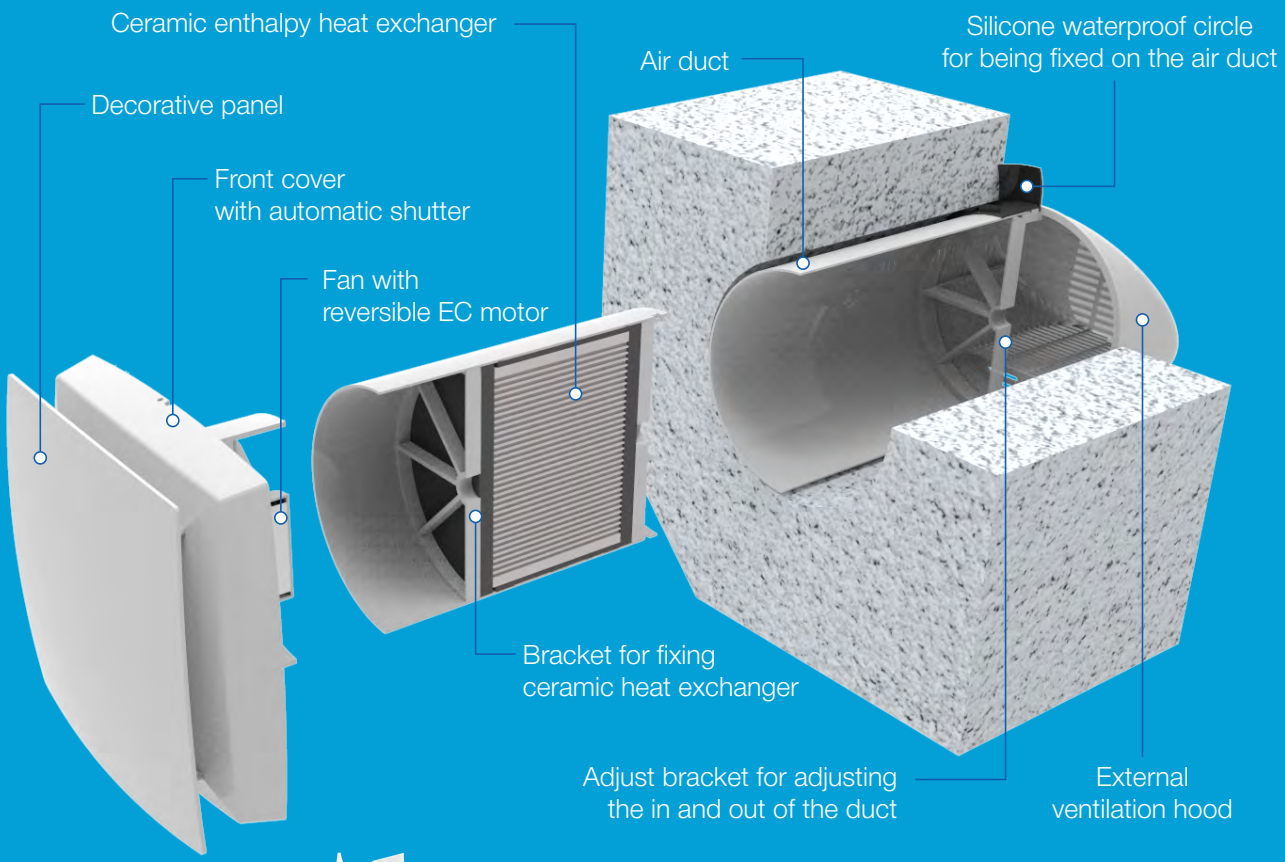
SINGLE ROOM

Heat Recovery Ventilator

EFFICIENT, RELIABLE AND ENERGY SAVING VENTILATORS

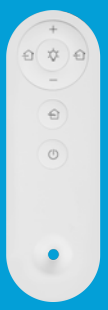
- Fresh Air Supply and Extract Stale Air From The Room Alternately
- Maintain Heat Regeneration and Indoor Humidity Balance
- Reduce Heating and Air Conditioning Costs
- Easy to Install Through Internal Wall with Hole Diameter from 160-170mm
- Auto Shutter Can Prevent The Insects Entering and The Cold Air Flowing Backward When The Unit Stops
- Consume Little Energy
- <30dB Low noise — Silence Operation
- Prevent Excessive Indoor Humidity and Mould Build-up
- High Efficient Ceramic Energy Regenerator
- Outer Hood Can Prevent Rain Draining Back and Birds Nesting

Product Structure



LED color display, it shows the different functioning modem, include that fan speed and rotation mode.

Automatic shutter



Remote control

◉ Reversible EC-Fan

The reversible axial fan with a EC motor. Due to the applied EC technology the fan is featured with low power consumption and silent operation. The fan motor has integrated thermal overheating protection and ball bearings for long service life.

◉ Ceramic Energy Regenerator

The high-tech ceramic energy accumulator with regeneration efficiency up to 97% ensures extract air heat recovery for warming of supply air flow. Due to the cellular structure the unique regenerator has a large air contact surface and high heat-conducting and heat-accumulating properties.

The ceramic regenerator is treated with an antibacterial composition which prevents bacteria growth inside of the energy regenerator. The antibacterial properties last for 10 years.

◉ Air Filters

The two integrated air filters with total filtration rate G3 provide supply and extract air filtration. The filters prevent ingress of dust and insects into the supply air and contamination of the ventilator parts. The filters also have antibacterial treatment.

The filter cleaning is done with a vacuum cleaner or water flushing. The antibacterial solution is not removed. F7 filter is available as a specially ordered accessory, but when installed, it reduces the air flow down to 40 m3/h.

LED Display

1 2 3 LED Indicator

- The three leds only show the same color at the same time, which you can turn off the led by the remote controller.
- The green shows as air supply.
- The red shows as air exhaust .
- The yellow shows as automatic mode which is changed in 75s between the air supply and the air exhsust.
- 3 speed fan control for lighting the number of the led.
- The LED light is switchable.

EASY CONTROL

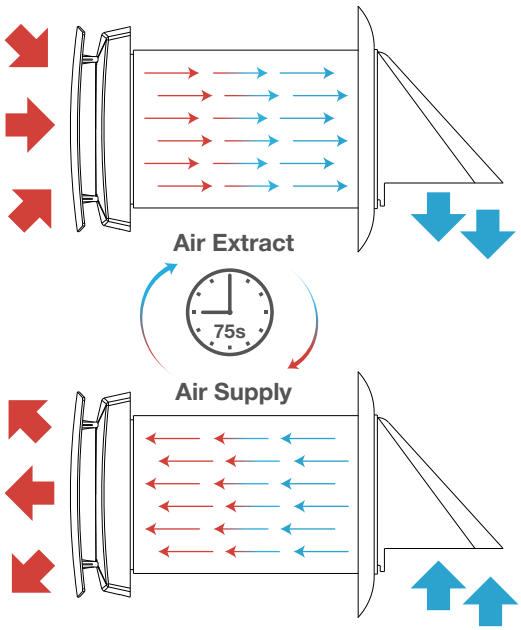
- Using radio signal for communication.
- Longer distances communication up to 15m without barrier.
- Wider control area, multiple devices can be controlled at the same time.
- Accurate control to avoid controlling the wrong device.

ON/OFF | Regeneration mode | Supply mode | Exhaust mode | Fan speed increase | Fan speed decrease | LED light switch

Operation Modes

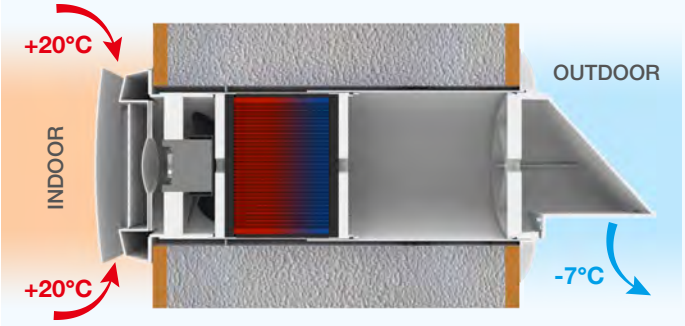
- **Ventilation Mode.** The ventilator runs in the air extract or air supply mode with a set speed. In case of synchronous operation of two connected ventilators one unit operates in the supply mode and the other one in the extract mode.

- **Regeneration Mode.** The ventilator runs in two cycles, 75 seconds each, to provide heat and moisture regeneration.



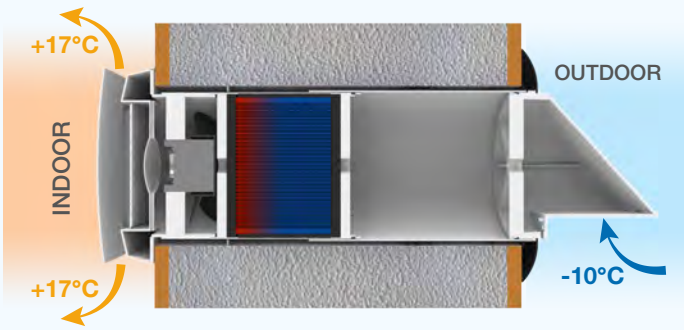
Working Principle

The reversible operation of the ventilator enables energy regeneration and consists of two cycles:



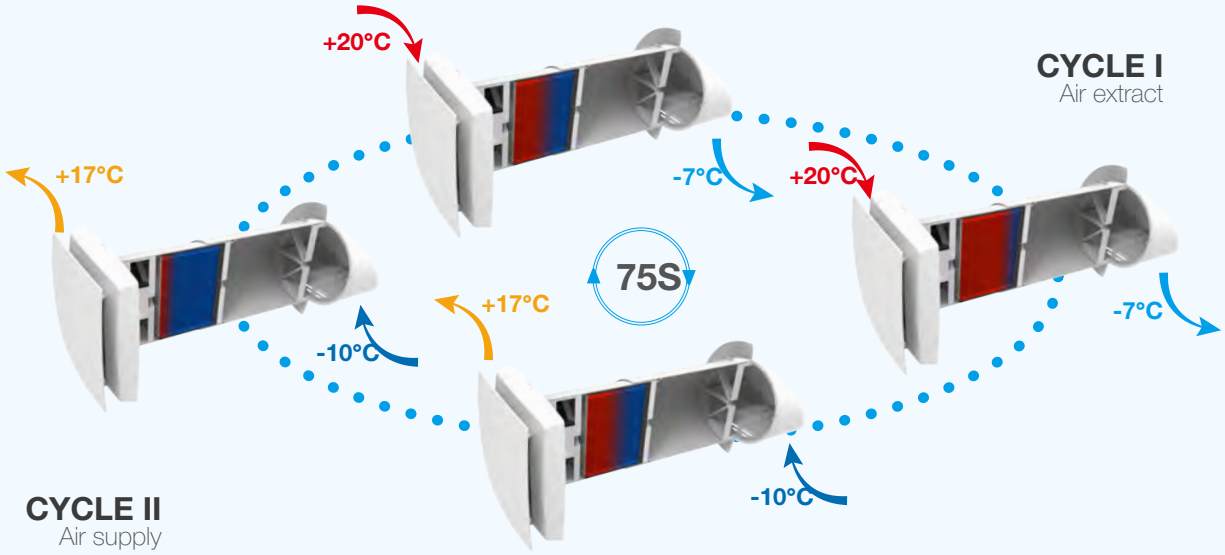
CYCLE I

The polluted warm air is extracted from the room and while passing the ceramic energy regenerator, the recuperator will absorb the heat and moisture. In 75 seconds, as the energy regenerator gets warmed, the ventilator automatically switches to the supply mode.



CYCLE II

The fresh, but cold outdoor air flows through the heat regenerator and absorbs the accumulated heat and moisture so that the temperature of supply air flow will close to the room temperature. In 75 seconds, when the energy regenerator gets cold, the ventilator switches to the air extract mode. The cycle starts from the beginning.



Applications

The ventilator is designed to ensure continuous mechanical air exchange in houses, offices, hotels, cafes, conference halls and other residential and public premises. The ventilator is equipped with a ceramic heat exchanger that enables supply of fresh filtered air heated by means of extract air heat regeneration. The ventilator is designed for through-the-wall mounting and is rated for non-stop operation. Transported air must not contain any flammable or explosive mixtures, evaporation of chemicals, sticky substances, fibrous materials, coarse dust, soot and oil particles or environments favourable for the formation of hazardous substances (toxic substances, dust, pathogenic germs).

Technical Data

IP22

A SEC CLASS

Voltage	220-240	V
Frequency	50/60	Hz
Input Power	11.3	W
Current	0.06	A
RPM	2000 (max)	-
Airflow (L/M/H)	26/55/64	m^3/h
Noise (3m)	≤ 31.9	dB(A)
Regeneration Efficiency	≤ 97	%
Ingress Protection Rating	Ip22	-
Air Duct	ø159	mm
SEC Class	A	-
Mounting	Wall Mounting	-
Net Weight	3.4	kg

Dimensions