

# **SINGLE ROOM** Heat Recovery Ventilator



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## 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



C & C





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**



Remote control

#### 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. F8 filter is available as a specially ordered accessory, but when installed, it reduces the air flow down to 40 m<sup>3</sup>/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 65s between the air supply and the air exhsust.
- 3 speed fan control for lighting the number of the led.
- The LED light is switchable.



### **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, 65 seconds each, to provide heat and moisture regeneration.



OUTDOOR

-10°C

### **Working Principle**

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

+17°C

NDOOR

+17°C



#### 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 65 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 65 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



Voltage	220-240	V
Frequency	50/60	Hz
Input Power	12	W
Current	0.08	A
RPM	2000 (max)	-
Airflow (L/M/H)	20/42/64	m <sup>3</sup> /h
Noise	≤ 36.7	dB(A)
Regeneration Efficiency	≤ 92	%
Ingress Protection Rating	lp22	-
Air Duct	ø 157	mm
SEC Class	A	-
Mounting	Wall Mounting	-
Weight	6	kg

### **Dimensions**



C\*: Size is customized.

