

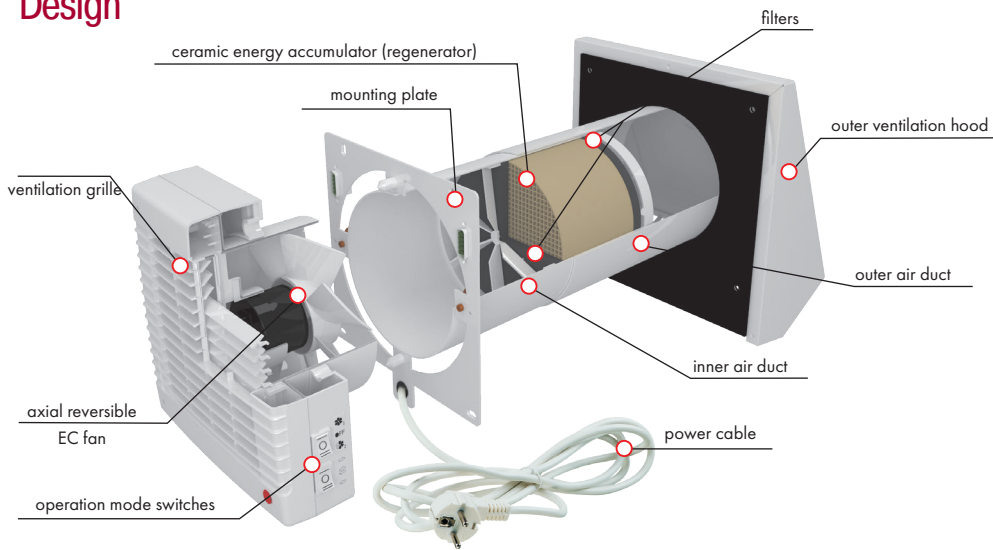
# SAF HR

The single-room ventilator SAF HR is an easy and effective solution for decentralized energy saving ventilation in separate rooms, cottages, public and commercial premises.

## SAF HR ventilators features

- Efficient supply and exhaust single room ventilation
- High-tech ceramic energy accumulator with regenerating efficiency up to 90%
- Reversible EC ventilator with 10W power demand
- Integrated automation
- Silent operation
- Easy mounting and servicing
- Filters with total filter class G3 ensure air cleaning
- Rated for continuous operation
- No condensate generation during operation

## Design



## Technical data

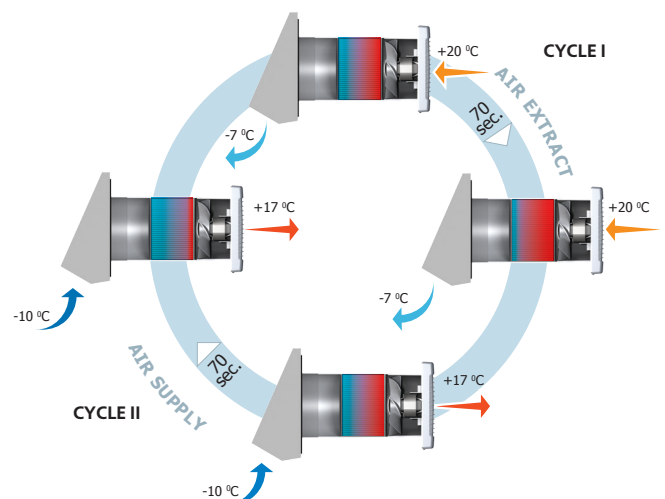
Speed	Air flow		Power W	I A	N RPM	Noise @ 1m		Noise @ 3m		Noise attenuation		Regeneration efficiency %
	m <sup>3</sup> /h	CFM				dB(A)	Sones	dB(A)	Sones	dB(A)	Sones	
1	36	21	4,74	0,034	1000	29	0,8	19	0,4	18	0,4	≤ 90
2	59	35	6,56	0,050	1500	35	1,5	25	0,7			
3	85	50	9,65	0,071	2045	44	3,5	34	1,4			

## SAF HR ventilator operating logic

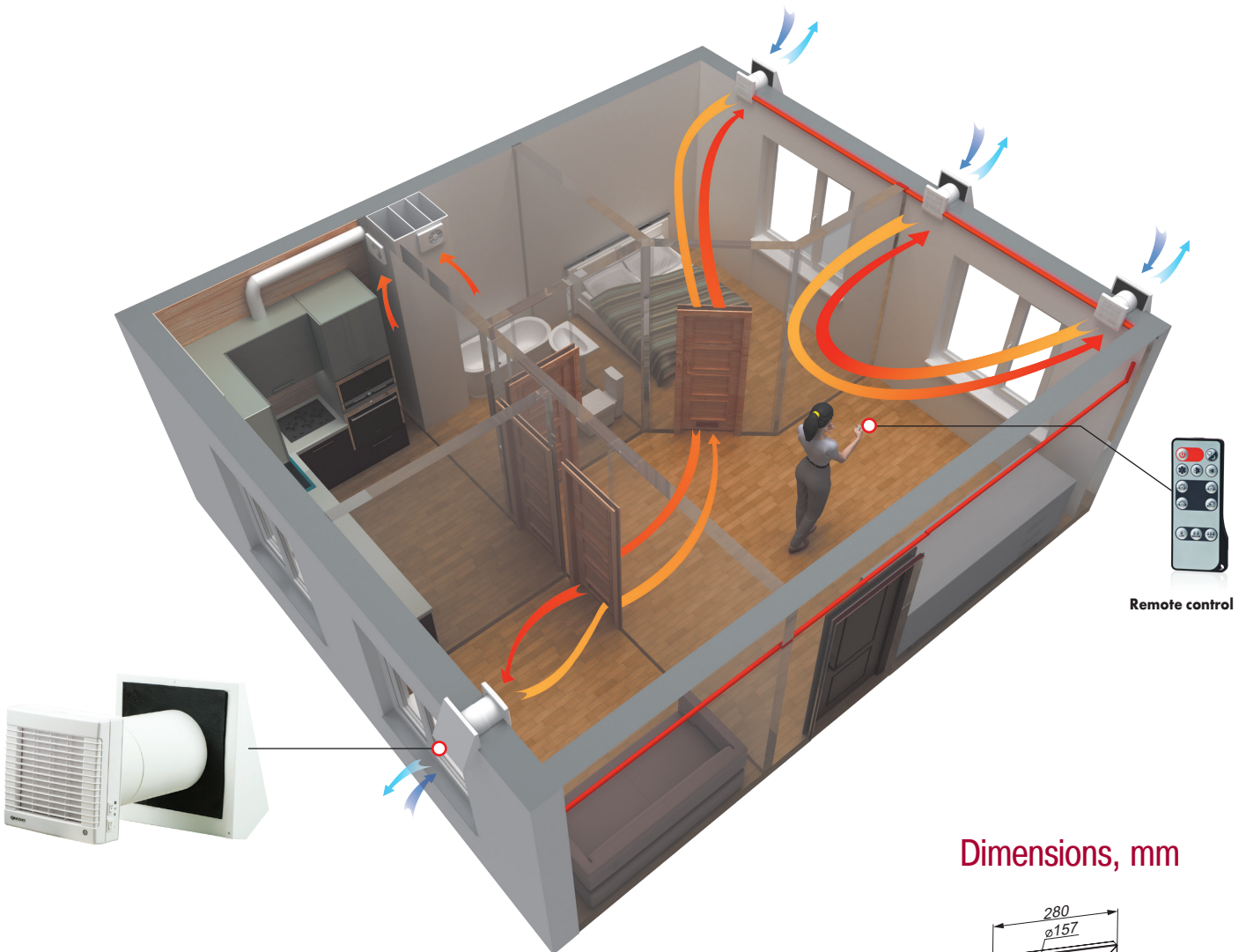
• The ventilator is designed both for reversible mode with energy regeneration and supply and extract mode with no regeneration.

• **CYCLE I.** Warm stale air is extracted from the room, and then it passes through the ceramic energy accumulator, while flowing through it, heats, moistens the ceramic accumulator, and transfers up to 90% of the contained thermal energy. As the ceramic accumulator gets heated, the ventilator switches to supply mode automatically.

• **CYCLE II.** Clean fresh air from outside passes through the ceramic energy accumulator, absorbs moisture and is heated up to the room temperature due to the accumulated heat. As temperature of the accumulator drops down, the fan switches to extract mode and the cycle is renewed. The ventilator changes its operation mode between supply and extract ventilation every 70 seconds.

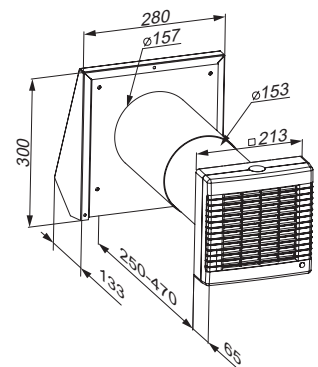


## Ventilation system arrangement example



Remote control

## Dimensions, mm



## Control and operation modes

**Ventilator on/off**

**Speed switching**

**Natural air supply:**  
The automatic shutters are opened but the fans are OFF

**Ventilation:**  
All the ventilators in the network operate in permanent air extract or air supply mode. To ensure balanced ventilation it is advisable to set one half of the ventilators into air supply mode and the other part of the ventilators into air extract mode.

**Selection of humidity control mode:**  
The humidity set point is adjustable for 45, 55 or 65%.  
The ventilator speed control up or down keeps the comfortable indoor humidity.

**Night mode:**  
The integrated photo sensor activates the low speed operation.

**Air supply:**  
All the ventilators operate in air supply mode no matter of the jumper setting.

**Heat recovery ventilation:**  
The ventilators change air supply and air extract mode once in 70 seconds. To attain the best result we recommend to set the ventilators into opposite phase operation modes.

