

# RCH

*Chimney extract fan and cap for hybrid extraction in community housing*



SI-VENT accessories

- Specially designed for air extraction in detached or community homes through chimneys or community shunts. It gives the whole building a uniform, attractive appearance.
- The Venturi version is only for natural extraction, without an extract fan.
- Its lightweight aluminium structure means it can be easily and quickly installed on the roof.

**Construction:**

- Made of pre-lacquered black aluminium that cannot be altered by atmospheric elements.

- Slats specially designed to obtain a high-performance Venturi effect.
- Supply voltage 230V 50 Hz.

**Versions:**

- BASIC: Operated with a switch or a SI-VENT wind controller.
- VENTURI: Natural operation without an extract fan due to the Venturi effect.
- TEMPERATURE: Designed for air extraction in homes and barbecues at temperatures of up to 150°C.

**On request:**

- Measurements adapted to any chimney.



## **HYBRID VENTILATION SYSTEM (H.V.)**

This system is based on natural air extraction when the external wind conditions are favourable and when they are unfavourable the extract fan operates with an electric motor, guaranteeing the minimum necessary extraction. The electric extract fan is started up by wind control sensors specially designed for this application.



SI-VENT accessories

## **WIND CONTROLLER**

### **SI-VENT, Wind sensor**

The SI-VENT electronic wind controller is extremely robust and reliable. It is made up of a sensor, a controller and a power source.

The sensor is able to measure winds of up to 100 km/h and the controller starts up the electric extract fan when the wind speed remains below the minimum programmed speed for a period of 5 minutes.

# RCH-400x800VM



Chimney extract fan and cap for hybrid extraction in community housing



A unit specially designed for controlled mechanical extraction through chimneys or community shunts. The system enables a constant pressure to be maintained in the installation, with self-regulation of the extract fan speed, obtaining the necessary flow rate at each given time, depending on the different needs of the installation, and achieving important energy savings.

- It gives the whole building a uniform, attractive appearance.
- Its lightweight aluminium structure means it can be easily and quickly installed on the roof.
- Measurements adapted to any chimney, on request.

**Construction:**

- Made of pre-lacquered black aluminium that cannot be altered by atmospheric elements.

- Slats specially designed to obtain a high-performance Venturi effect.
- Reaction blades impeller with external rotor motor.
- Adjustable 0-250Pa differential pressure transmitter with digital display and connection accessories.
- VSD1/A-RFM-0.5 frequency converter speed controller.

**Motor:**

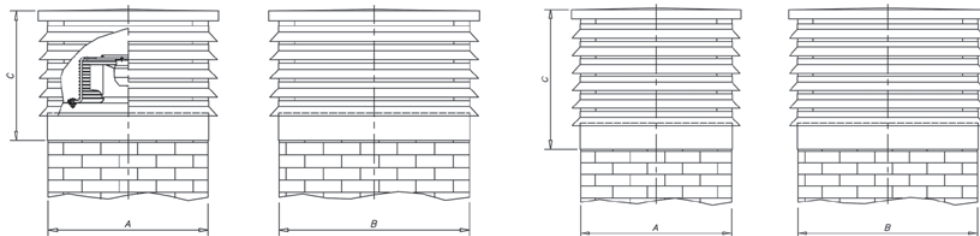
- Motor with durable ball bearings and IP54 protection.
- Converter power, single-phase 230V 50 Hz, converter to motor output voltage three-phase 230V. 50Hz
- Operating temperature -20°C +50°C.

## Technical characteristics

Model	Speed (r/min)	Maximum admissible current (A)		Installed power (kW)	Maximum electric power (kW)	Maximum flow rate (m³/h)	Sound pressure level <sup>(1)</sup> at 2/3 of Qmax dB(A)		Useful surface (m²)	Approx. weight (kg)	According to ErP
		230V	400V				Inlet	Exhaust			
RCH-400x400B	1360	0.34	-	-	0.08	950	32	35	-	9	2018
RCH-400x400V									0.134	6.7	Excluded
RCH-400x600B	910	0.35	-	-	0.08	1280	28	31	-	14	2018
RCH-400x600V									0.191	9.5	Excluded
RCH-400x800B	880	0.50	-	-	0.12	1800	31	35	-	18	2018
RCH-400x800V									0.248	13.5	Excluded
RCH-400x800VM	1280	-	0.55	-	0.20	2500	43	48	-	19	2018

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres and at 2/3 of the maximum flow rate (2/2 Qmax).

## Dimensions mm



Model	A	B	C
RCH-400x400B	400	400	420
RCH-400x600B	400	600	420
RCH-400x800B	400	800	420
RCH-400x800VM	400	800	420

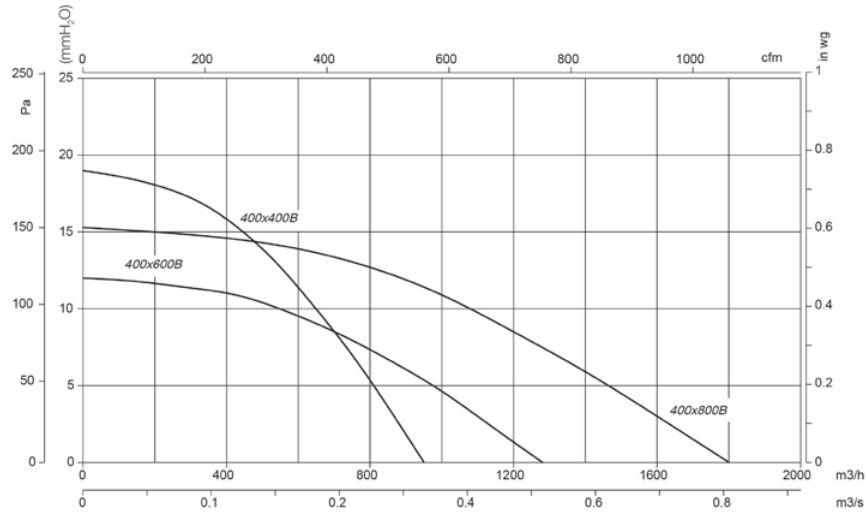
Model	A	B	C	Useful surface area
RCH-400x400V	400	400	600	0,134 m²
RCH-400x600V	400	600	600	0,191 m²
RCH-400x800V	400	800	600	0,248 m²

**Characteristic curves**

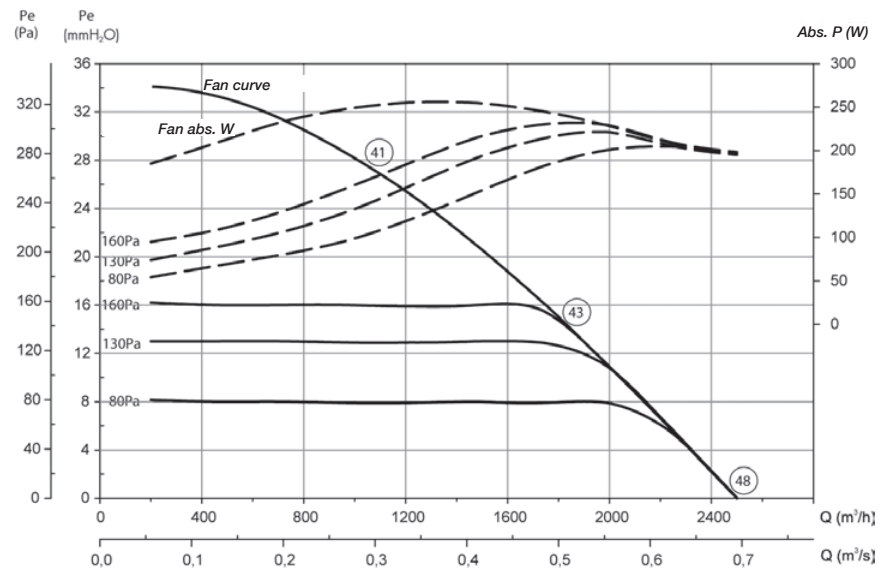
Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe= Static pressure in mm H<sub>2</sub>O, Pa and inwg.

**RCH**



**RCH-400x800VM**



○ The LpA noise levels indicated in the curves are pressures measured at the inlet and in a free field, at 6 metres.

**Examples of operation**

