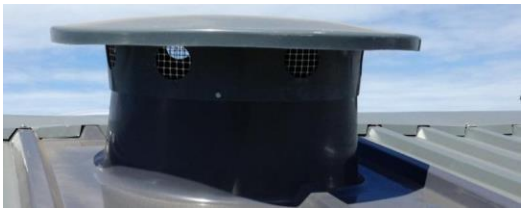
Ventilation Catalog



Chimney:

The chimney is a GRP product, molded in fiberglass-reinforced polyester resin, and its functi is to allow the passive evacuation of Smoke.

Ventilated plate:

This product is made in two pieces which are then joined together, resulting in a single, uniform piece: plate and hat. It can be fitted with a metal mesh on the inside of the neck to protect it from birds. Aesthetically, it is discreet because it fits in with the architectural ensemble, both because of the color and the shape of the plate, which will have the same profile as the roof. It can be manufactured in a wide range of colors and profiles, according to the client's needs.

Girandola plate:

We are presenting a ventilated sheet with a gyratory that takes care to frame the Polystyrene Resin with at least 25% Fiberglass, in accordance with the UNE EN 1013-2013 Standard. The gyratory is made of stainless steel. It is a wind-operated rotary extractor that extracts air from the inside, which in turn forces outside air in through the existing openings, including this one. They require maintenance, which consists of periodic cleaning.

Ventilator:

The active fan consists of four parts: plate, hood, motor and covers. The plate is made of fiberglass impregnated with polyester resin, as is the neck, whose function is to support the ventilation assembly - motor, hood and covers. The profile and color principle is the same as the previous product - any as long as you get a sample. The hood is made of the same material, is water-resistant and has been designed to allow rainwater to drain away and perform well against the vibrations generated by the motor and any environmental aggressions. The motor is mounted vertically on a galvanized bracket that holds it in place and stabilizes the whole. The motor is associated with a turbine that will generate the air flow, the power of which can vary between 0.5 and 1.5 HP, fig. 4, according to table 1.

Table 1: Technical values of the motors	
50 Hz 230/400V	60 Hz 460 V Y
1.1 KW 4.4/2.25 A	1.3 KW 2.25 A
Cos ø 0.81 1415 rpm/ min.	Cos ø 0.82 1715 rpm/min.
220 – 240 / 380 – 420 V Δ/Y	440 – 480 V Y
4.5 – 4.5 / 2.6 – 2.6 A	2.6 – 2.6 A

The covers are also made of fiberglass impregnated with polyester resin and their function is to prevent water, birds, etc. from entering when the engine is switched off.
When the motor is started to ventilate, a flow of air is generated that presses on the lids, allowing the air to circulate due to the strong impulsion, even if it rains the water will not enter.

The fan is fitted with a stop which is placed inside the hood, between the lids to ensure maximum opening of the lids, thus allowing them to be lowered when the motor is not running.

Caption: Fan (left); Motor/Turbine/Zinc-plated bracket (right). Top view of the fan, looking outwards (left). View of the fan from below, inside the building (right).

Technical features:

- Plate and hood made of polyester resin reinforced with fiberglass, adaptable to any profile and available in grey (other colors on request). Resists mechanical vibrations generated by the engine.
- Fiberglass lids. The lids open automatically when the motor is running and close by gravity. The lids do not reach vertical equilibrium due to a stopper.
- Three-phase electric motor with IP55 mechanical protection and class F insulation.
- The Turbine is made of Polypropylene (PP), unalterable and unassailable against acid vapors or corrosive fumes.
- Operating temperature between -40ºC and 80ºC
- Anti-corrosion construction

Tabela 2: Technical characteristics				
Ventilator	Power cv	r.p.m.	Ø Turbine mm	Flow rate m3/h
V – 1	0.5	900	600	9540
V – 2	1.0	1400	600	12600
V - 3	1.5	1400	600	14640