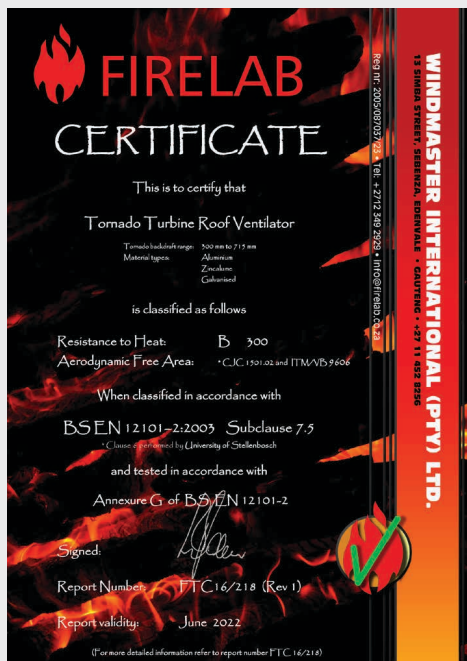


BACKDRAFT



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FIRE RATED TURBINE VENTILATOR



BENEFITS & FEATURES:

- Approved Fire rated natural ventilator
- Tested extraction
- Special patented fire and heat resistant bearing system
- Full benefit of constant natural and smoke ventilation
- Proven reliability
- Positive continuous extraction
- No maintenance
- Low cost solutions
- Water and dust resistant
- Bird proof
- ISO 9001 quality certification

The **Backdraft** range is Windmaster International's latest addition of progressive innovation. **Backdraft** is a fire rated Turbine Ventilator designed and tested to **extract excessive smoke from a building in case of fire**. It will contain the fire and maintain a safe smoke level in accordance with the **EN standards**.

This ensures that people will **escape the disastrous effect of suffocation by smoke** inhalation during fire in a building.

The Backdraft turbine ventilator is not only a **lifesaving safety device** but also a natural ventilator that ensures positive airflow for day to day ventilation in your building.



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KEEPING YOU COOL & SAFE



The ventilator is activated by natural convection (rising heat) from the inside of the building and enhanced performance by the wind outside. More importantly, in case of fire, the rising heat and smoke caused by the fire will substantially enhance the rotation of the ventilator, resulting in high-performance extraction

The rotating action of the **Backdraft** smoke ventilator ensures **continuous extraction of heat and smoke in case of fire**, maintaining a clear safe smoke layer.

CALCULATION

As per regulation, mechanical ventilation requirements for smoke ventilation should be calculated to maintain a minimum of 10 air changes per hour. Due to the variation of extraction capacity, the Backdraft Ventilator is calculated to maintain 10-15 air changes per hour. The below extraction table is to be used at an average of 25km/h to determine the quantity of ventilators required.

Note: The Backdraft ventilator is not designed for Zone-controlled alarm activation smoke ventilation and only to be used as free-standing ventilators similar to fusible link smoke ventilators.



FEATURES AND SPECIFICATIONS

- Special patented fire and heat resistant bearing system
- Durable construction of ventilator
- Manufactured in a choice of Galvanised, Aluminium, Zincalume or Chromadec material
- Models available: 610mm, 500mm, 350mm & 300mm
- Adjustable throat section
- *3-year warranty
- Changeable bearing system
- Tested extraction capacity
- Fire rated certification

TURBINE SPECIFICATIONS				
Specifications	300mm Backdraft	350mm Backdraft	500mm Backdraft	610mm Backdraft
Tested Air removing capacity at 15km/h windspeed	1489m ³ /h	1863m ³ /h	4495m ³ /h	6807m ³ /h
25km/h windspeed	2184m ³ /h	2731m ³ /h	5757m ³ /h	8512m ³ /h
Sealed Bearings	2	2	2	2
No. of blades	20	21	32	40
Box Sizes				
Height	500mm	600mm	850mm	900mm
Width	450mm	530mm	700mm	850mm
Length	450mm	530mm	700mm	935mm
Approximate mass:				
Galvanised units	6.2kg	7.2kg	14.0kg	17.4kg
Zincalume weights	6.6kg	8.8kg	15.6kg	19.2kg
Aluminium units	3.4kg	4.4kg	10kg	11.2kg

NOTE: The air removing capacity figures shown have been calculated at an average height (heat stack) of five meters above working level. Average windspeed = 15km/h. Higher stack effect = better extraction

