

WINDMASTER® **BACKDRAFT**

FIRE RATED TURBINE VENTILATOR



- 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 solution
- 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.

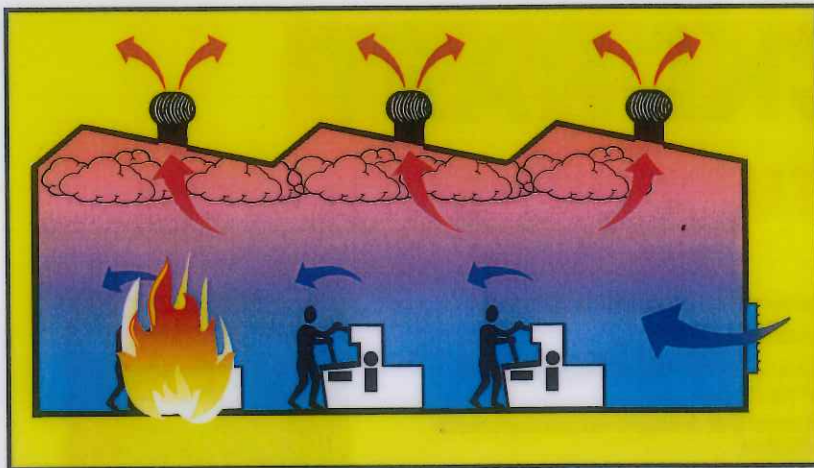
It will contain the fire and maintain a safe smoke level in accordance with the EN standards. This ensures that people will escape the disastrous effect of suffocation by smoke inhalation during fire in a building.

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.

A major benefit of the **Backdraft** turbine ventilator is that it requires NO maintenance, unlike other smoke ventilators. It is a low cost solution and provides more advantages than standard static smoke ventilators.

The unique patented design of the bearing system withstands and maintains temperature of 300 degrees Celsius for a period of 30min, as per fire regulations code. Tested and proven the **Backdraft** range of turbine ventilators will suit your needs for effective positive day to day ventilation and at the same time provide you the peace of mind of a reliable lifesaving devise that you can depend on.

KEEPING YOU **SAFE**



The design of the Tornado enables the ventilator to be activated by natural convection from the inside of the building and allows it to be assisted by the wind outside. Wind creates a flow of air through the throat of the Tornado to enhance extraction.

Users of Tornado Turbines continually report reduced stress and increased productivity due to a healthier working environment.

The rotating turbine action removes convected heat and increases currents of fresh air to flow within a building, producing a substantial cooling effect on people and the environment in general.

BENEFITS

- Positive extraction removes heat, fumes and dust.
- Improves productivity.
- Improves indoor air quality.
- Water and bird proof.
- Reduces structural damage.
- Protects Stored Goods
- Human and environmentally friendly.

FEATURES

- 5 year guarantee.
- Can be colour coated.
- Adjustable Pitch up to 45°.
- Dampers available for winter.
- Silent, clean and effective.
- Patented bearing system.
- No maintenance and operating cost.

MATERIAL TYPE

The Tornado is available in a choice of Galvanised and Aluminium material.

Galvanised Tornadoes are constructed of Mital specification Z275 - 0,6mm steel.

The structure of the galvanised unit makes it more durable and reliable in the long run in terms of:

- ▶ high velocity wind areas, hail storms and heavy rain
- ▶ general handling and transportation

Chromadek Tornadoes are recommended for the ventilation of acid and caustic fume intensive plants to protect the material from corrosion.

TORNADO TURBINE SPECIFICATIONS

Specifications	300mm Tornado	350mm Tornado	500mm Tornado	610mm Tornado
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
m ² floor coverage per unit	38m ²	50m ²	120m ²	180m ²
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	5.6kg	6.6kg	13.4kg	16.6kg
Zincalume weights	6kg	8kg	15kg	18.4kg
Aluminium unitsg	2.8kg	3.8kg	9.4kg	10.4kg

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

Manufactured by

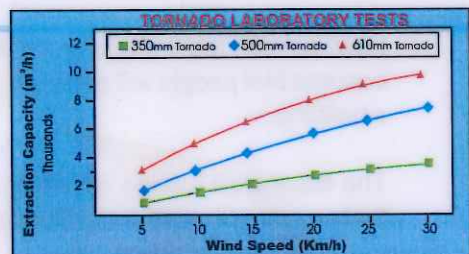
WINDMASTER INTERNATIONAL (PTY) LTD

Specialists in Turbine Roof Ventilators

and Evaporative Coolers

www.windmaster.co.za

Windmaster



DISTRIBUTOR CONTACT DETAILS



FIRELAB

CERTIFICATE

This is to certify that

Tornado Turbine Roof Ventilator

Tornado backdraft range: 300 mm to 715 mm
Material types: Aluminium
Zincalume
Galvanised

is classified as follows

Resistance to Heat: B 300
Aerodynamic Free Area: *CJC 1501.02 and ITMWB 9606

When classified in accordance with

BS EN 12101-2:2003 Subclause 7.5

* Clause 6 performed by University of Stellenbosch

and tested in accordance with

Annexure G of BS EN 12101-2

Signed:

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(For more detailed information refer to report number FTC 16/218)

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