



WINDMASTER®

The Ultimate Turbine Roof Ventilator



TORNADO



Turbine Ventilation Specialist

APPLICATION - The Windmaster® Tornado Series of Roof Ventilators are South African designed and manufactured. This cost-effective and efficient ventilation system is ideal to ventilate factories, workshops, warehouses, agricultural applications, schools, hostels, change houses, assembly halls and other building structures which require effective ventilation. The positive extraction of the Tornado Turbine ventilators eliminate dust penetration and a down-draught into the building to ensure a cleaner and healthier working environment.



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.



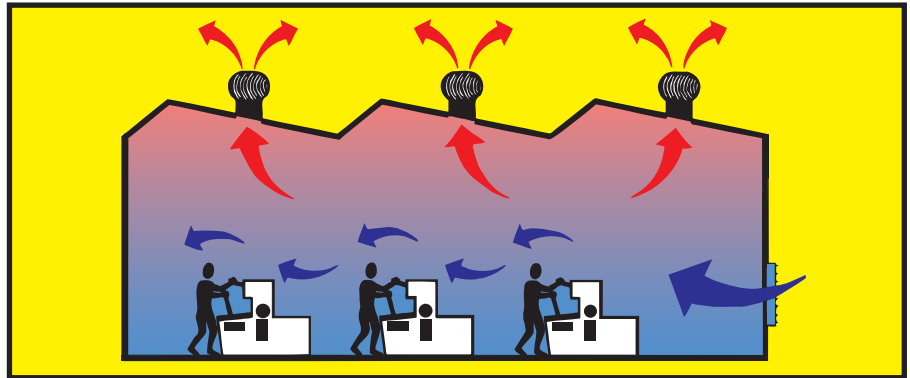
FEATURES:

- 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.

KEEPING IT COOL

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.

TECHNICAL INFORMATION

SUPERIORITY OF PRODUCT

The Tornado features such superior qualities as: • Tested Extraction Capacity - report available on request • Comprehensive 5 year guarantee • 100% South African Product • Patented Bearing system • Top quality of manufacture • Superior internal design of the Tornado eliminates the necessity of external supporting braces • Larger rotating dome for increased extraction capacity • Sealed bearings enclosed in a sealed bearing housing

COMPONENTS

1. Dome - vertical mounted blades specially formed to prevent water and dust penetration.
2. Shaft - yellow cadmium plated bright mild steel.
3. Bearing System - unique and patented type ZZ lubricated bearings in a reinforced housing to prevent from corrosion.
4. Cylindrical throat - two piece elbow type that will fit most inclined roof tops.
5. Base plate - ensures water and dust proof attachment to the roof.



MATERIAL TYPE

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

Galvanised Tornado's are constructed of Mital specification Z 275 - 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

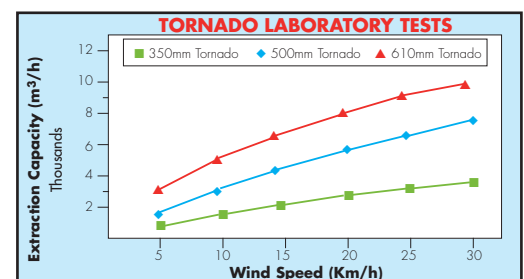
The Aluminium Tornado is recommended for coastal areas.

Polyurethane treated Tornado's are recommended for the ventilation of acid and caustic fumes 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 units	2.8kg	3.8kg	9.4kg	10.4kg

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



DISTRIBUTOR CONTACT DETAILS

Manufactured by

WINDMASTER INTERNATIONAL (PTY) LTD



Specialists in Turbine Roof Ventilators
and Evaporative Coolers
www.windmaster.co.za