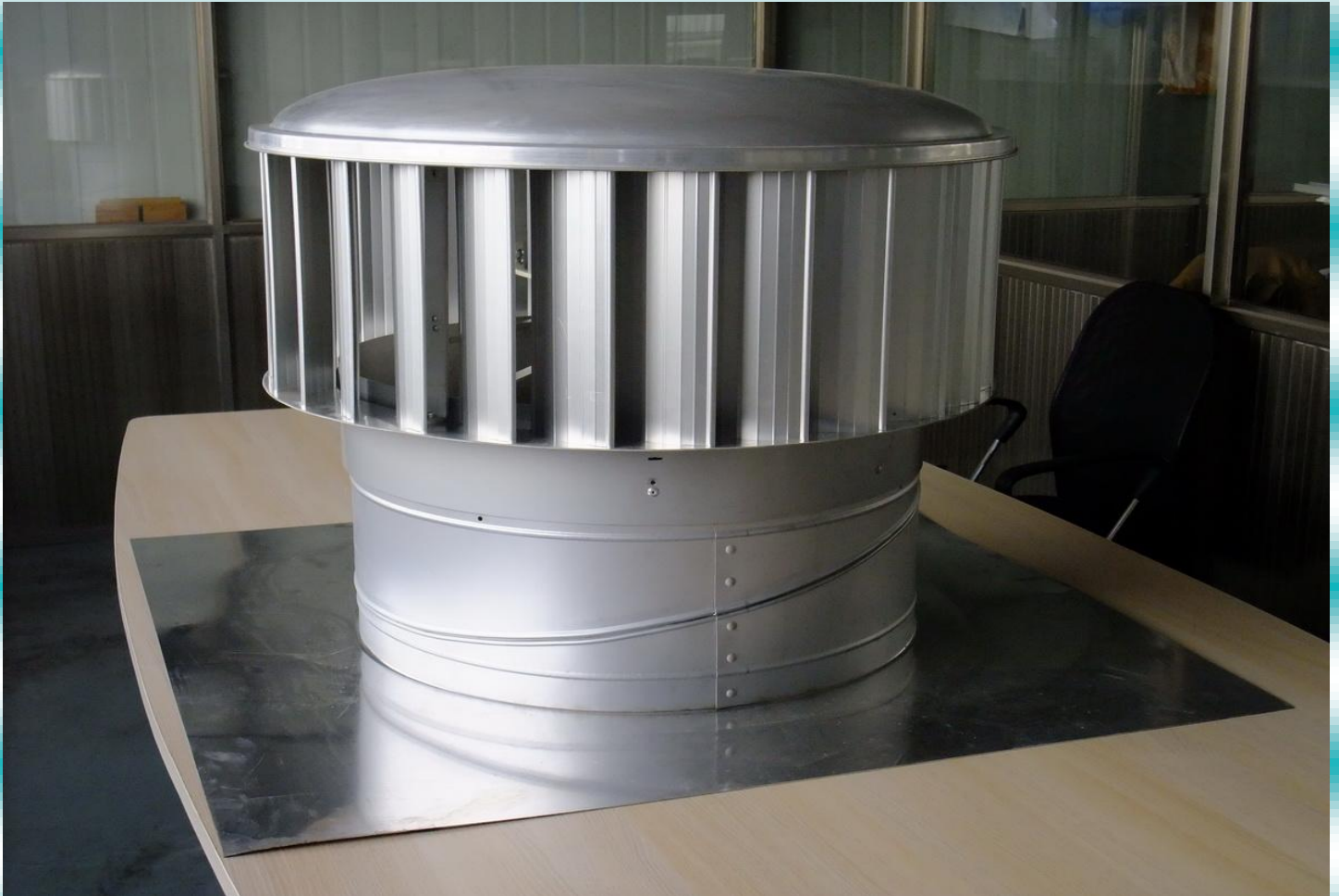


Tornado Straight Vane 600

High Performance - Industrial Roof Ventilation System



- **Economically Priced – Easy to install**
- **Unique Variable Pitch Base – For Roofs 0° To 22.5°**
- **Maintenance Free, With No Running Costs**
- **High Performance Aluminium Construction**

The Tornado SV 600

To meet the requirements of the current industrial building market, Galaxy Rooflite have developed the *Tornado* Straight Vane 600. Economically priced the *Tornado* is maintenance free and reliably rotates freely, due to the permanently lubricated bearing system. The unique variable pitch base also allows rapid installation, as one size fits all roof pitch angles. The *Tornado* complies with AS2428.1 – 1993 to wind speeds of 200 km/hr and to the entry of wind driven rain at a range of 2.5L/sec, under cyclonic conditions.

** Special fixings are required for cyclonic areas.*

Benefits of the Tornado SV 600 Series

◆ No Operation Costs

As the Tornado, is a self contained wind powered design, there are no operational costs incurred.

◆ Reduced Power Costs

Proper ventilation provides a cooler, damp free and low humidity working environment, reducing the need for costly air conditioners or industrial fans.

◆ Reduced Installation Costs

Due to the versatility of the variable pitch throat, installation costs are reduced as one unit fits all.

◆ Reduced Maintenance Cost

Rising damp & humidity causes corrosion of building structures, painted surfaces, metal fittings and potential corrosion damage to electrical wiring. Proper ventilation eliminates these problems.

Calculating How Many Ventilators

1. Determine the Volume (**VOL**) of the building in cubic meters. (Length x Width x Height).
2. Dependant on the building type, select the required Air Changes (**A/C**) per hour, from the table below.
3. From local authority records, determine the typical wind speed. 6, 8,10,12 or 16km/h. This will establish the exhaust capacity M³ per hour (Refer Table).
4. Calculate:

$$\text{No of Ventilators} = \frac{\text{VOL} \times \text{A/C} \times 0.278}{\text{Exhaust Capacity L/ps}}$$

Recommended Air Changes (A/C) for various buildings

Building Type	Recommended A/C/Hour
Warehouses	5 to 8
Factories & Workshops	5 to 10
Sports Centres	5 to 10
Assembly Halls	10 to 15
Garages	10 to 15
Toilet Blocks	12 to 15
Laundries	12 to 20
Stables, Piggery	10 to 50

Performance Table

(Exhaust Capacity in litres per second at wind speed (Km/h))

Model	500mm	600mm
6 km/h	530	600
12 km/h	870	1050
16 km/h	1090	1350

The performance data above is calculated in accordance with the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE). Air change rate must conform to local health department building codes covering the type of installation.

The Tornado Package

The Tornado Straight Vane 600 are suitable for all composite metal and fibre cement roofs, with pitches up to 22.5°. The Tornado package comes in a durable cardboard box which contains the turbine head, matching diameter variable pitch throat tube and base flashing.

Why Ventilate?

Every industrial, commercial or community building, no matter how big, has a problem. Air! Keeping natural air circulating combined with a comfortable working environment can be difficult and very expensive. Needless to say, fresh air makes people feel more alive and vital, whilst stale hot air causes people to feel lethargic and disinterested. The movement of air over the body causes evaporation to occur which is the natural way of cooling down, thus preventing moderate heat stress.



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