

TORNADO ROOF VENTILATORS

Portfolio

Affordable Clean Air





INDUSTRIAL VENTILATION

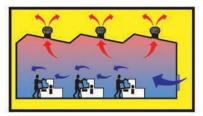


BENEFITS:

- Removes heat, fumes, steam and dust
- Improves productivity
- Improves air quality
- No maintenance or operating costs
- Water and dust proof
- Comprehensive 5 year guarantee.

Sizes available in: 300, 350, 500, 610 and 715mm







THE WHIRLING TURBINE ACTION REMOVES CONVECTED HEAT AND POLLUTION BUILD-UP

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

MATERIAL TYPE

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

Galvanised Tornados are constructed of Iscor 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..

Specifications	300mm Tornado	350mm Tornado	500mm Tornado	610mm Tornado	715mm Tornado
Tested Air removing capacity at ▶ 15km/h windspeed	1489m ³ /h 2184m ³ /h	1863m ³ /h 2731m ³ /h	4495m ³ /h	6807m ³ /h 8515m ³ /h	9257m ³ /h
➤ 25km/h windspeed m ² floor coverage per unit	2184m ³ /h	2731m ³ /h	5757m ³ /h	8515m ³ /h	11491m ³ /
Open Area	38m ²	50m ²	120m ²	180m ²	260m ²
Sealed bearings in Housing	2	2	2	2	2
No. of blades	20	21	32	40	46
Dome height	270mm	280mm	430mm	530mm	580mm
Dome width	430mm	460mm	660mm	815mm	980mm
Total height Approximate mass:	510mm	610mm	870mm	910mm	1020mm
 Galvanised Tornado Zincalume Tornado Aluminium Tornado 	6.3kg 5.7kg 3.8kg	7.6kg 7.2kg 4.7kg	15.9kg 14.7kg 10.4kg	24.6kg 22.4kg 15.2kg	38.1kg 34.05kg 22.1kg

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.





INSTALLATION: KISIMA WATER

LOCATION NATURE OF BUSSINESS ROOF TYPE

Chang'ombe , DSM Drinking Water Manufacturing IT 5 Profile 26G

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
07 UNITS	500mm	Above Boiler Facilities

At Kisima Water Factory, metal boilers were heating up the factory, and thus causing the heat to be trapped inside the factor environment. Productivity of workers were reduced due to the heat trapped and the humidity of our environment.

Marango Ltd , assisted in installing 7 units. This reduced the heat trapped in the factory dramatically.

| marango Ltd | marang



INSTALLATION: TANGA PHARMACEUTICAL & PLASTICS LTD

LOCATION NATURE OF BUSSINESS ROOF TYPE

Kipawa , DSM Plastics Manufacturing Corrugated Profile 26G

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES

20 UNITS 500mm Above Plastic Producing Machines

At T.P.P.L , Plastic manufacturing machines were heating up the factory , and thus causing the heat to be trapped inside the factory environment. Productivity of workers were reduced due to the heat trapped and the humidity of our environment.

Marango Ltd , assisted in installing 20 units. This reduced the heat trapped in the factory dramatically.

LIKE A BREATH OF FRESH AIR MAIR AND LINE A BREATH OF FRESH AIR



INSTALLATION: QUALITY FOAM LTD

LOCATION NATURE OF BUSSINESS ROOF TYPE

Mwenge, DSM Foam Manufacturing IT 5 Profile 26G

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES

15 UNITS + Flashings 500mm Above Mattress Assembly Facility

At QFL, Foam and Mattress Assembly machines were heating up the factory, and thus causing the heat to be trapped inside the factory environment. Productivity of workers were reduced due to the heat trapped and the humidity of our environment.

Marango Ltd , assisted in installing 15 units and extended flashings for waterproofing precautions because the ridge was absent in the structure.

This reduced the heat trapped in the factory dramatically.



INSTALLATION: CAPITAL ENTERPRISES

LOCATION NATURE OF BUSSINESS ROOF TYPE

Chang'ombe, DSM Storage Facility IT 5 Profile 26G

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES





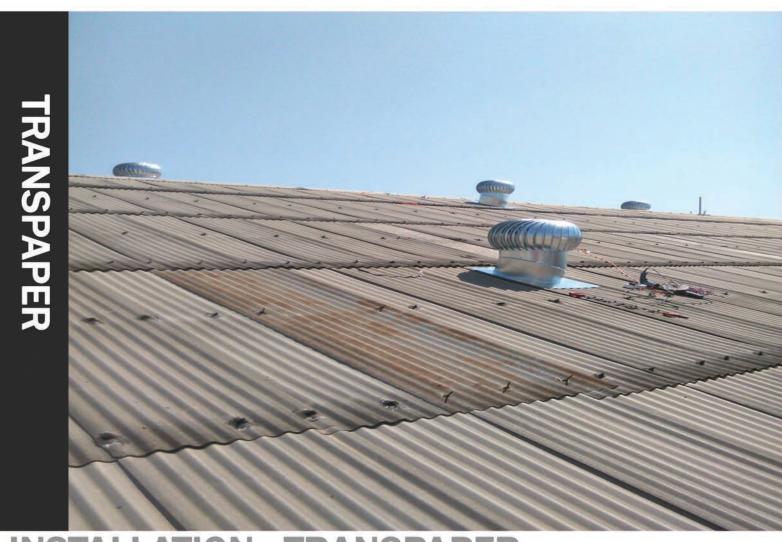
INSTALLATION: INSTYLE SIGNS

NATURE OF BUSSINESS **LOCATION ROOF TYPE** Corrugated Profiles 26G Banana, DSM Signage and Graphics

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
7 Units	500mm	Ridge Centres







INSTALLATION: TRANSPAPER

LOCATION	NATURE OF BUSSINESS	ROOF TYPE
Chang'ombe, DSM	Paper Converters	Corrugated Profiles 26G

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
4 Units	500mm	Ridge Centres and Machine







INSTALLATION: HAKIMI AND SONS

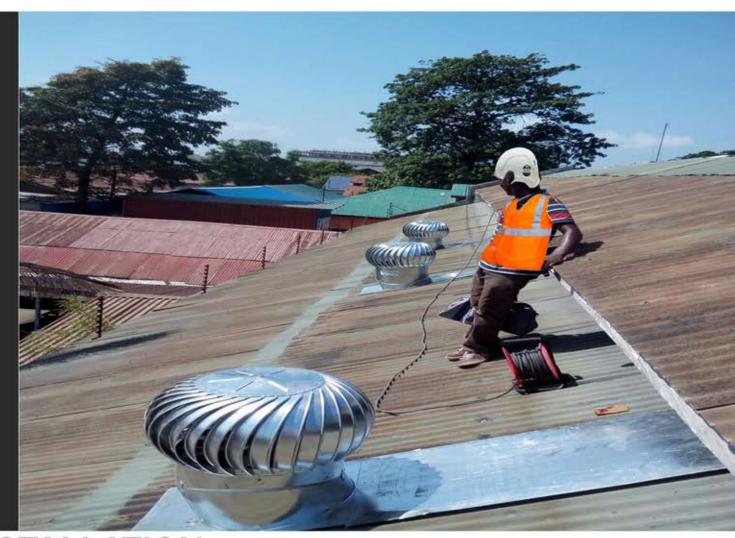
NATURE OF BUSSINESS LOCATION **ROOF TYPE** kipawa, DSM Storage Facility IT 5 Profiles 26G

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
6 Units + Flashings	500mm	Flashed out End to End

At Hakimi and Sons storage godown, the roof Structure dropped out to one angle with no opposite faced sheets.. This Structure has no ridge, so we had installed flashing sheets from the highest slope, where the sheets start - all the way to the last Turbine. This technique ensures no water ingress running down the slope and into the turbine.







INSTALLATION: CHANGOMBE WAREHOUSE

LOCATION NATURE OF BUSSINESS ROOF TYPE

Changombe Rd, DSM Storage Facility Corrugated Iron Sheets

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES
6 Turbines 500mm Flashed out from extended roof





INSTALLATION: MASAKI RESIDENCE

LOCATIONNATURE OF BUSSINESSROOF TYPEMasaki DSMResidenceAsbestos Iron Sheets

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES
6 Turbines 500mm Ridge Centre







INSTALLATION: Desktop Productions Limited

LOCATIONNATURE OF BUSSINESSROOF TYPEPugu Road DSMPrintersIT 5 Sheets

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
8 Turbines	500mm	Ridge Centre





LOCATION NATURE OF BUSSINESS **ROOF TYPE** Warehouse IT 5 Sheets Vikindu DSM

# OF TURBINES	SIZE OF TURBINES	LOCATION OF TURBINES
4 Turbines	500mm	Ridge Centre





INSTALLATION: PEPSI

LOCATIONNATURE OF BUSSINESSROOF TYPEKipawa Dar es SalaamBeverages FactoryIT 5 Profiles

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES
6 UNITS 500mm Ridge Centre







INSTALLATION: FIVE STAR PRINTERS

LOCATIONNATURE OF BUSSINESSROOF TYPEPugu Rd Dar es SalaamPrinting FactoryIT 5 Profiles

OF TURBINES SIZE OF TURBINES LOCATION OF TURBINES
5 UNITS 500mm Ridge Centre



TURBINE COMPARISON





TORNADO TURBINE	FAKE TURBINES	
COMES WITH A BASE PLATE	NO BASE PLATES	
ADJUSTABLE THROAT	NO THROAT	
RAIN WATER REPPELENT BLADES	DOESNT REPPEL RAIN	
ANTI CORROSION BLADES	CORROSIVE BLADES	
PATENTED BEARINGS	LOW COST BEARINGS	
SUITABLE FOR ALL PITCHED ROOFS	CANNOT EXTRACT ON HIGH PITCH	
MANUFACTURER GUARANTEE	NO GUARANTEE	



Say NO TO **FAKE TURBINES**



LIKE A BREATH OF FRESH AIR MAIR MAIN AND LINE