![Golden Engineering Company Pvt Ltd logo]

GOLDEN TURBOVENT Model *GT-800*

Channel Partner

![solid solutions logo]

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TECHNICAL SPECIFICATION:-

Model	GT-800		
Turbine Diameter	940mm		
Neck/Throat Diameter	800mm		
No. of Vanes(Blades)	52 Vanes		
Height	450mm		
Base Ring MOC (Mounting Ring)	Stainless Steel 430		
Top Plate MOC	Aluminium Thickness 1.5mm Alloy 8011 H2		
Vanes MOC	Aluminium Thickness 0.5mm Alloy 8011 H2		
Rotation	Twin Sealed 6000ZZ bearings and self lubricating bush of Dupont Zytel 101L Polyamide 66 resin to ensure frictionless rotation even at lowest wind velocity		
Center Shaft	Stainless Steel 12mm Ø		
Inner Arms	M.S. with Powder Coating*		
Outer Arms	Stainless Steel		
Center Pipe	M.S. with electro zinc plating		
Nett. Weight	9.5 Kgs (Approx.)		
Gross Weight	15 Kgs (Approx.)		
Packing ASSEMBLED	5 ply seaworthy corrugated box size 960x960x480mm		
	Qty in 20 ft. container	Qty in 40 ft. container	40 ft. HC container
	48 Nos	96 Nos	120 Nos

Note : Golden Engineering Co. Pvt. Ltd. Reserves the right to make changes owing to regular product development
*Powder Coating is done with Epoxy Polyester Powders for excellent corrosion resistance.

EXHAUST CAPACITY :-

Wind Velocity	TURBOVENT GT-800 Exhaust capacity	
	Litres/Second	CFM
04 Kmh	910	1930 CFM
08 Kmh	1200	2540 CFM
12 Kmh	1950	4130 CFM
18 Kmh	2700	5720 CFM
24 Kmh	3440	7280 CFM

*Multiply Litres/Second with 2.118 to convert it into CFM

Quick Calculation

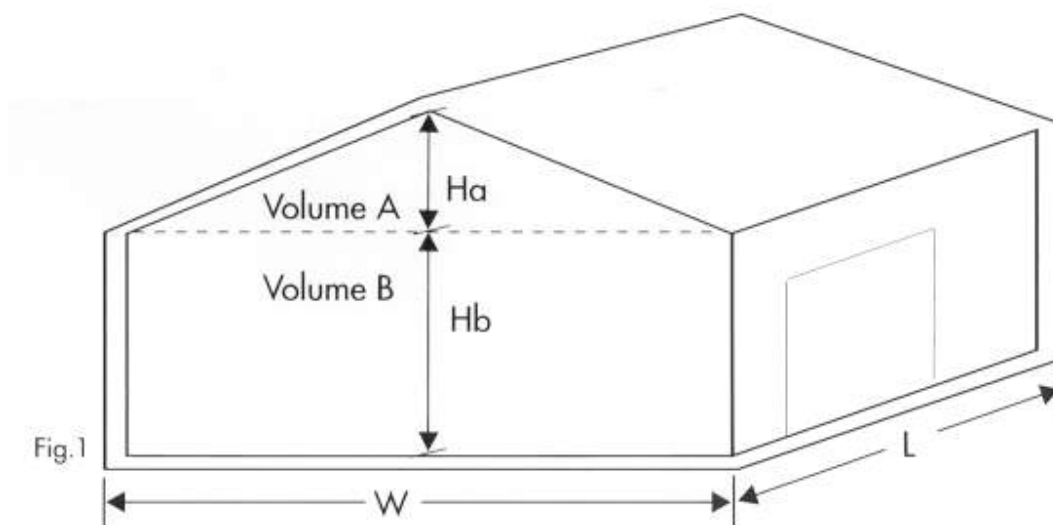Calculation to decide the number of *TURBOVNETS*

1. Determine the volume of the building in Cubic Meter. (Fig. 1)

    Volume of section A = 0.5 x L x W x Ha (all dimensions in Meters)

    Volume of section B = L x W x Hb (all dimensions in Meters)

    Total building volume = Volume of section A + Volume of section B

    Note: For factories, the combined volume A + B should be used.

Fig.1

2. Calculate the number of ventilators required:

$$\text{No. of Ventilators} = \frac{V \times A/ch}{EX/c \times 3.6}$$

Where:

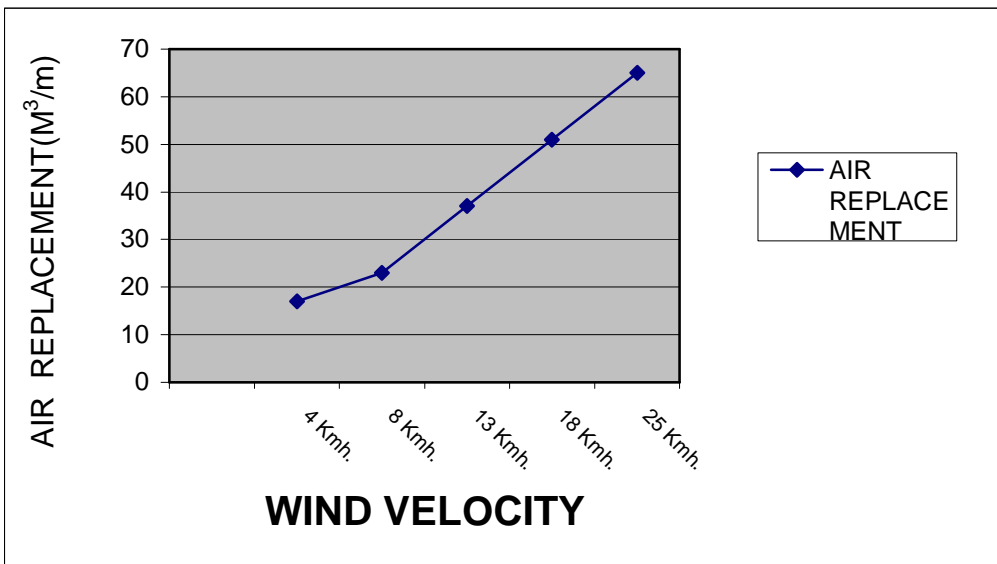V = Volume of building or roof space

A/ch = Air changes per hour (refer ACH table)

EX/c = Exhaust capacity of ventilator (refer Exhaust Capacity table above)

Note : 3.6 Converts m3/hr to litres/second.

ACH TABLE

Recommended Air Change Per Hour			
Commercial Premises	ACH	Industrial Premises	ACH
Assembly rooms	04-08	Boiler rooms	10-15
Bakeries	10-20	Dye works	08-15
Banks	03-04	Electroplating shops	10-15
Cafes and coffee bars	10-12	Generator rooms	08-15
Canteens	05-10	Factories and workshops	04-12
Cinemas and theatres	05-08	Foundries	10-15
Conference rooms	08-12	Laundries	08-15
Dancehalls	06-08	Paint shops	08-15
Entrance halls	03-05	Stores and warehouses	04-08
Garages	06-08	Welding shops	10-15
Gymnasiums	06-12		
Hair dressing salons	10-15		
Hospital sterilizing wards	04-06		
Commercial kitchens	10-20		
Laboratories	08-12		
Launderettes	15-25		
Lavatories	08-15		
Libraries	03-05		
Offices	04-08		
Photo and X-ray	10-15		
darkrooms	10-12		
Recording studios	06-10		
Restaurants	02-04		
Schoolrooms			

GT-450

GT-350

GT-300

GT-610

GT-530

GT-530

Sewer Vent

Cowl

GT-610

Cowl

GT-530

GT-800

GT-300

GT-300

GT-300

www.goldenturbovent.com

Model GT-530

Model GT-800