GOLDEN
Engineering Company Pvt Ltd

*GOLDEN TURBOVENT Model **GT-450***

TECHNICAL SPECIFICATION:-

Model	*TURBOVENT* **GT-450**		
Turbine Diameter	560mm (22 Inch)		
Neck/Throat Diameter	450mm (18 Inch)		
No. of Vanes(Blades)	28 Vanes		
Height	400mm (16 Inch)		
Base Ring MOC (Mounting Ring)	Stainless Steel 430		
Top Plate MOC	Aluminium 1.2 mm Thickness Alloy 8011 H2		
Vanes MOC	Aluminium 0.5mm Thickness 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	4 Kgs (Approx.)		
Gross Weight	5.5 Kgs (Approx.)		
Packing ASSEMBLED	5 ply seaworthy corrugated box size 560x560x410mm		
	Qty in 20 ft. container	**Qty in 40 ft. container**	**40 ft. HC container**
	200 Nos	420 Nos	504 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-450** Exhaust capacity	
	Litres/Second	**CFM**
04 Kmh	510	1080 CFM
08 Kmh	680	1440 CFM
12 Kmh	1100	2330 CFM
18 Kmh	1530	3240 CFM
24 Kmh	1950	4130 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.

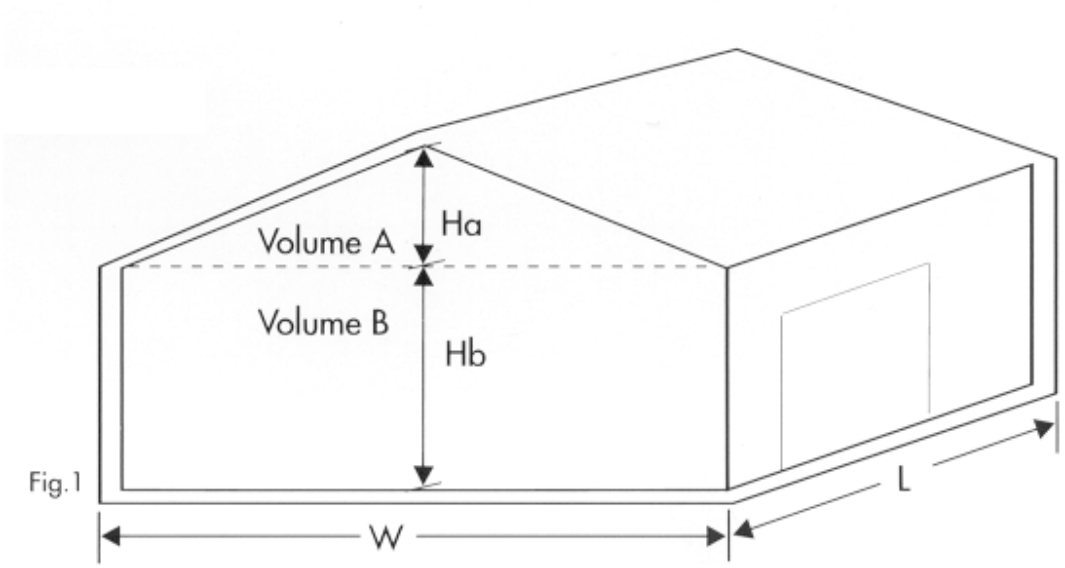


Fig.1

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

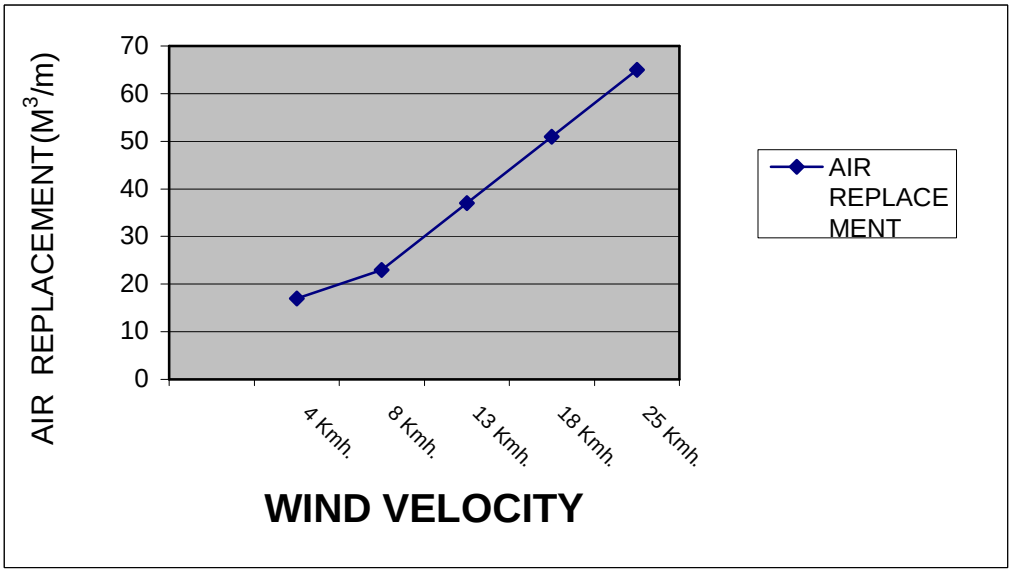
A/ch = Air changes per hour (refer ACH table)

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-610
Sewer Vent
GT-800
GT-300
GT-350
GT-530
Cowl
GT-610
GT-300
GT-300
GT-530
Cowl
GT-530
GT-300
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SWITCH TO Green

SWITCH TO **GOLDEN** *Turbovent*

GOLDEN
Engineering Company Pvt Ltd

Designed to lead

- » Established since 1991
- » Experience Counts, over 49,000 Turbovents supplied & installed since 2002.
- » Widest Range: Neck diameters of 4, 12, 14, 18, 21, 24, 28, 32 & 36 inches.
- » Genuine Warranty and Reliable after sales service.
- » Strong presence in National & International Market with exports to UK, Spain, UAE, Oman, Syria, Egypt, Kenya & South Africa.

20 YEARS 1991-2011 of Engineering Excellence

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