GOLDEN TURBOVENT Model *GT-530*

TECHNICAL SPECIFICATION:-

Model	TURBOVENT GT-530		
Turbine Diameter	710mm		
Neck/Throat Diameter	530mm		
No. of Vanes(Blades)	36 Vanes		
Height	18 Inch (460mm)		
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	5.2 Kgs (Approx.)		
Gross Weight	7.5 Kgs (Approx.)		
Packing ASSEMBLED	5 ply seaworthy corrugated box size 710x710x470mm		
	Qty in 20 ft. container	Qty in 40 ft. container	40 ft. HC container
	120 Nos	240 Nos	240 Nos

Packing CKD / KIT / UNASSEMBLED	5 ply seaworthy corrugated box size 590x590x160mm		
	Qty in 20 ft. container	Qty in 40 ft. container	40 ft. HC container
	504 Nos	1120 Nos	1280 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-530 Exhaust capacity	
	Litres/Second	CFM
04 Kmh	600	1270 CFM
08 Kmh	800	1695 CFM
12 Kmh	1300	2754 CFM
18 Kmh	1800	3814 CFM
24 Kmh	2300	4873 CFM

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

Quick Calculation

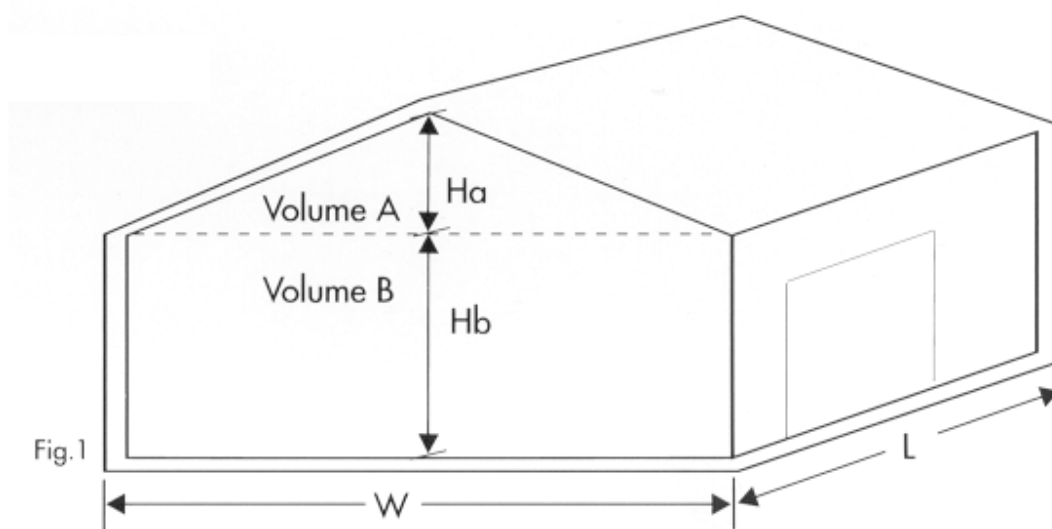Calculation to decide the number of *TURBOVNETS*

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

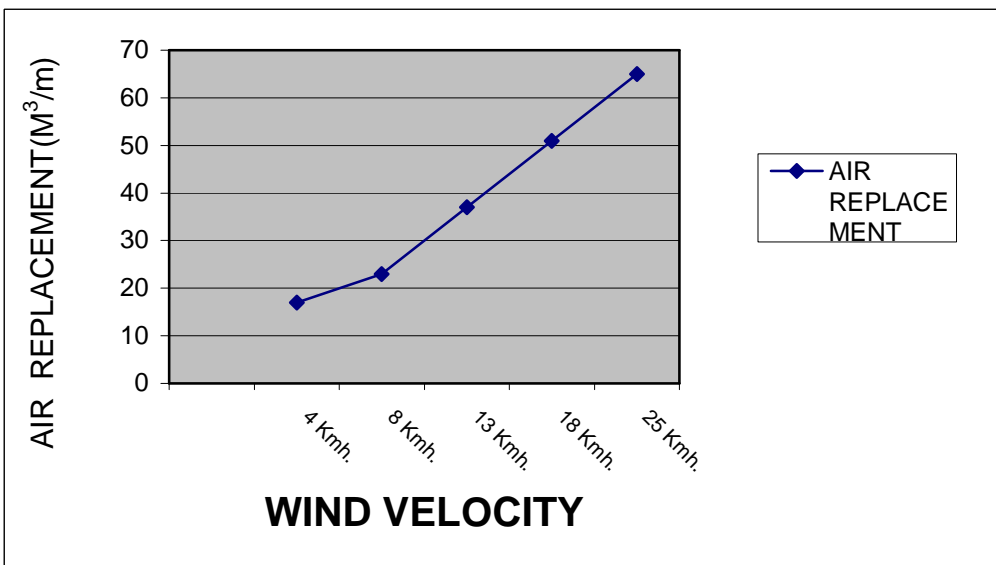   A/ch = Air changes per hour (refer ACH table)

   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
GT-800
Cowl
GT-610
Cowl
GT-530
GT-300
GT-300
GT-300

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GT 530

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 *of Engineering Excellence*
1991-2011