

GOLDEN TURBOVENT Model GT SS 304 – 530 (21 Inch)



TECHNICAL SPECIFICATION:-

Model	TURBOVENT GT SS 304 – 530 (21 Inch)			
	(Stainless Steel 304 grade)			
Turbine Diameter	710mm (28 Inch)			
Neck/Throat	530mm (21 Inch)			
Diameter				
No. of	36 Vanes			
Vanes(Blades)				
Height	18 Inch (460mm)			
Base Ring MOC	Stainless Steel 304			
(Mounting Ring)	Thickness 0.5mm			
Top Plate MOC	Stainless Steel 304			
	Thickness 0.6mm			
Vanes MOC	Stainless Steel 304			
	TI	nickness 0.3mm		
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	Stainless Steel 304			
Outer Arms	Stainless Steel 304			
Center Pipe	Stainless Steel 304			
Nett. Weight	7 Kgs (Approx.)			
Gross Weight	9.5 Kgs (Approx.)			
Packing	5 ply seaworthy corrugated box			
ASSEMBLED	size 710x710x470mm			
	Qty in 20 ft.	Qty in 40 ft.	40 ft. HC	
	container	container	container	
	120 Nos	240 Nos	240 Nos	

Packing	5 ply seaworthy corrugated box			
CKD / KIT /	size 590x590x160mm			
UNASSEMBLED	Qty in 20 ft.	Qty in 40 ft.	40 ft. HC	
	container	container	container	
	510 Nos	1020 Nos	1200 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	TURBOVENT GT SS 304 - 530		
Velocity	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

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.



2. Calculate the number of ventilators required:

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				





SWITCH TO Green









» 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.



Golden Engineering Company Pvt. Ltd.

