



IS : 2312

HEAVY DUTY

EXHAUST

FAN

TECHNICAL FEATURES & DATA :

MOTOR

POWERVENT Exhaust Fans are provided with capacitor start and run induction motors of robust construction, totally enclosed, continuous rated type and specially designed for fan duty. Direction of rotation can be changed simply by interchanging connections of the stator windings. The product range conform to IS specification No. 2312/1967, and are generally provided with Class 'B' Insulation; class 'F' Insulation can be offered to meet special requirements. The fan motors are provided with two ball bearings adequately lubricated.

IMPELLER

The impeller are designed for adequate air displacement at low power consumption, effected by blades with deep curvatures and broad surfaces; and are fully balanced to ensure uniform load on bearings and long trouble-free service life.

SPECIAL PROTECTION

On specific requirement **POWERVENT** Exhaust fans can be supplied with :

A. Chlorinated rubber paint finish B. Epoxy based paint finish C. IP55 Protection

Sweep		Speed rpm	Volts	Power Consumption (Watts)	AIR DELIVERY		F.I.D.*
inch	mm				C.F.M.	m ³ /hr.	
9	230	1420	230	40	440	760	
12	300	920	230/415	45	750	1270	
12	300	1420	230/415	82	1120	1900	
15	380	920	230/415	78	1450	2460	
15	380	1420	230/415	150	2350	4000	
18	450	920	230/415	132	2550	4340	
18	450	1420	230/415	370	4000	6800	
24	600	720	230/415	240	4650	7900	
24	600	920	230/415	500	6150	10450	
30	750	720	415	700	9000	15300	
36	900	570	415	740	13000	22100	
36	900	720	415	1200	16500	28000	

* Free Intake and Delivery Generally Confirming to IS:2312

SELECTION

PROBABLE LOCATIONS	AIR CHANGES PER HOUR	Example 1
OFFICE HALL / BANK / HOSPITAL WARD	08 - 12	Location : Office Volume : 10m x 10m x 4m = 400 m ³ Required air changes per hour = 10 Air movement : 400 x 10 = 4000 m ³ /hr Requirement of Exhaust Fans = 2 Nos. 12" / 1420 RPM
FACTORY / WORKSHOP	12 - 20	
CANTEEN / RESTAURANT	15 - 20	
BOILER HOUSE / FOUNDRY	40 - 60	
CINEMA / AUDITORIUM / KITCHEN / TOILET PHOTOGRAPHIC DARKROOM	20 - 30	Example 2 Location : Factory Volume : 130m x 20m x 8m = 4800 m ³ Required air changes per hour = 20 Air movement : 4800 x 20 = 96000 m ³ /hr Requirement of Exhaust Fans = 9 Nos. 24" / 920 RPM
LABORATORY	08 - 30	

ANCILLARY EQUIPMENT

Against specific order, **POWERVENT** Exhaust Fans can be supplied with ancillary equipment viz. Wire Guard, Wall Cowls, Louvre Shutters, Regulators etc.

LOUVRE SHUTTERS



- Robust Construction
- Compatible with our fans
- Anti Rust treatment
- Bird Net provided
- Compatible with our fans
- Opens 45° when fan is on
- Pre-painted
- Long life

WALL COWLS



REGULATORS



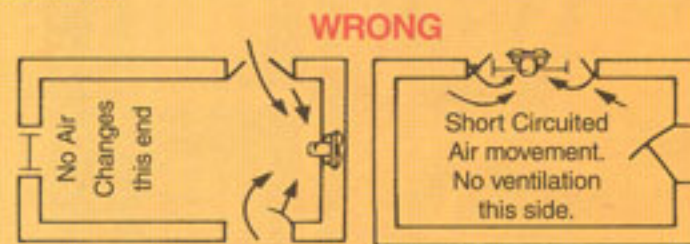
- Long life
- Saves Power
- Sturdy Construction
- Compatible with our fans
- Strong Construction
- Compatible with our fans
- Anti Rust treatment
- Safety aspect taken care

WIRE GUARDS



INSTALLATION

POWERVENT Exhaust Fans should be installed in such a way as to draw fresh air movement throughout the room or building to be ventilated so that it prevents formation of air pockets and the stale air is totally extracted. It is recommended to mount the fan on a wall opposite the inlets and at highest possible level normally not less than 7' so that any smoke, steam or odour laden air, warmer than ambient temperature within the room and having tendency to arise, can be effectively exhausted. The exhaust fan should be installed at a higher level than ceiling fan blades, if both are located in same area. The sketch shows correct installation of exhaust fans.



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DEALER

Since continuous development for improvements is a way of life with us, the product supplied may differ in minor details from what has been described in this leaflet