



We handle AIR with care...



## VENTECH CLASSIC AIRFOIL AXIAL FAMILY

# AXIAL FLOW FAN (RAV VAR Series)

Catalog ID - VSPL/Axial/RAVVAR/March2020/Rev.1

VENTECH SYSTEMS PVT. LTD. certifies that RAVVAR series bearing models RAVVAR 450, RAVVAR 630, RAVVAR 900 AND RAVVAR 1250 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



[www.ventechsystems.com](http://www.ventechsystems.com)

# PRODUCT DESCRIPTION

VENTECH SYSTEMS PVT. LTD., a pioneer and renowned leader in Air Handling Technology offers a wide range of Axial Flow Fans suitable for Industrial Ventilation, Air Conditioning, Dust Extraction and Fume Extraction Systems.

## TYPICAL APPLICATIONS

- Air Conditioning
- Humidification
- Smoke / Stale Air Exhaust
- Spray booth exhaust
- Building ventilation
- Fume Exhaust
- Oven exhaust
- Kitchen exhaust

VENTECH's engineered axial fans comprise of various blade and hub configurations, based on each application's performance requirements. The key to success is our innovative design that allows us to create a very wide range of axial fans tailor-made for specific needs.

High-strength, Die-cast Aluminium hubs are combined with our high-efficiency blade profiles of variable pitch and fixed pitch type. Machining, assembly, trimming and balancing are performed using the best processes and ISO 9001:2015 certified conditions to create the perfect axial fan to match particular needs of a customer.

- ⊗ Airflow Direction: Tested with Air flowing from impeller to motor as standard. However, air flowing from motor to impeller can be supplied on request.
- ⊗ Static Pressure: upto 100 mm.wg. in single stage. Higher pressures are possible on multi-stage versions, contra-rotating.
- ⊗ Comprehensive choice of diameters: Ranges from 450 mm to 1250 mm (17.7" to 49.2").
- ⊗ Capable of handling flow rates up to 1,50,000 CMH.
- ⊗ Inspection Door / View Port is provided as standard.
- ⊗ Suitable for Outdoor and Indoor Applications.

At VENTECH, we build fans for every possible ventilation need. Choose from one of the most comprehensive and widest range of axial fan family manufactured by VENTECH, one of the Pioneers and acknowledged leader in Air Handling Technology.

## FANS FOR ALL POSSIBLE REQUIREMENTS



Industrial Processes



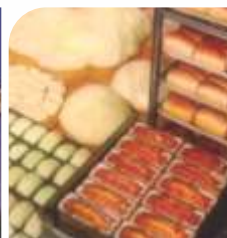
Paper & Pulp



Hotels & Commercial



Process Industries



Bakery / Kitchen



Agricultural

# TECHNICAL SPECIFICATIONS

## CONSTRUCTIONAL FEATURES AND OPTIONS

### Direct Driven Axial Fan



- ⊗ Casing is constructed of heavy gauge MS Sheet (as per IS-1079/2062), continuously welded steel casing to prevent air leakage.
- ⊗ Inlet and outlet flanges are welded properly to the fan casing sheet to ensure concentricity and alignment. Flanges have pre punched mounted holes for easy installation.
- ⊗ Motor base plate fabricated of heavy steel plates and welded to the interior of fan casing to prevent vibration or pulsation.

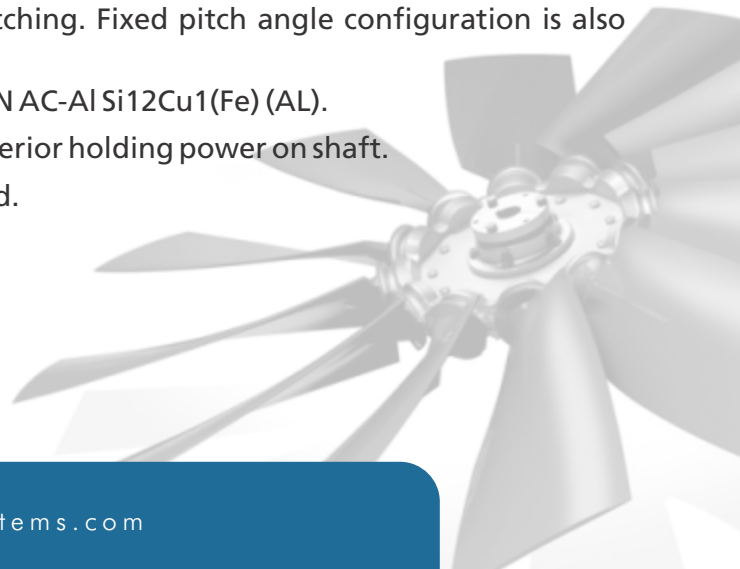
## IMPELLERS

### Airfoil Impellers - Exceptional performance with high efficiency

Our airfoil profile provides uniform, high-volume airflow with low power consumption for optimum efficiency. The airfoil's twisted blade creates a broad operating range, making it suitable for everything from the most demanding applications in the field of ventilation.

Some of the outstanding features are :-

- ⊗ Suitable for operating in Temperature range from -60°C to +245°C and High temperature tested at 250°C for maximum 2 hours and at 300°C for maximum 1 hour.
- ⊗ Adjustable pitch angles for exact performance matching. Fixed pitch angle configuration is also offered.
- ⊗ Well designed pressure die cast Aluminium blades , EN AC-Al Si12Cu1(Fe) (AL).
- ⊗ Designed to be used with taper-lock bushings for superior holding power on shaft.
- ⊗ Aluminium components are natural finish as standard.
- ⊗ High efficiency airfoil design blades upto 75%.



# TECHNICAL SPECIFICATIONS

## MOTORS

- ⊗ Standard Motors for running Normal fans are suitable for operation on 415 volts  $\pm 10\%$ , 50 Hz  $\pm 5\%$ , 3 Phase Power Supply, conforming to IS:325/1996 & IS 12615:2011.
- ⊗ Motor is closely matched to the fan load and provided at the voltage, phase, hertz and enclosure as requested by client.
- ⊗ Energy efficient TEFC motors used EFF1, EFF2, IE2, IE3 etc.
- ⊗ Axial Fans are available in single phase version also.

## FINISH & COATING

- ⊗ Depending on application, entire fan assembly (excluding shaft and impeller) can be hot-dipped galvanized.
- ⊗ Standard fans are finished with synthetic enamel paint after application of rust-preventive primer.
- ⊗ On request, fans can be supplied with casing made of stainless steel or zinc sprayed MS sheet.
- ⊗ Epoxy / chlorinated rubber paint may also be provided.

## FACTORY RUN TEST

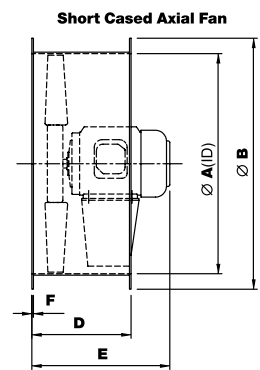
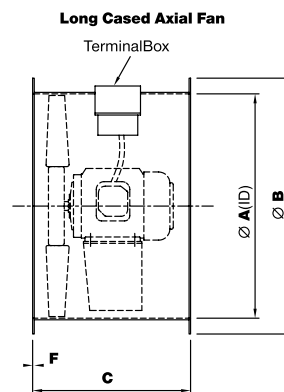
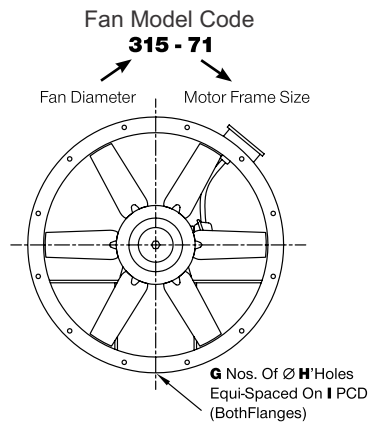
- ⊗ Impellers are statically and dynamically balanced on microprocessor controlled machine as per IS-1940 balanced quality grade G-6.3 and can also be fine balanced to G 2.5.
- ⊗ All fans are completely assembled and subjected to our Factory Acceptance Test prior to shipment.

## QUALITY ASSURANCE

- ⊗ Air performance and static pressure data of AMCA certified Tube Axial Fans of RAVVAR Series is based on tests conducted in AMCA's state-of-the-art airflow and acoustics AMCA Laboratory in Malaysia. We guarantee to deliver rated published performance levels of certified fans.
- ⊗ Axial Flow Fans can also be tested in accordance with IS-3588-1991 standards on customer's request.

# DIRECT DRIVEN AXIAL FAN

## (LONG / SHORT CASED)

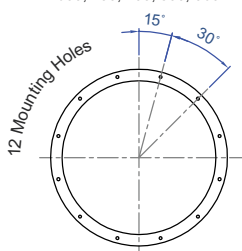


Fan Model Code	A	B	C	D	E	F	G	H	I
RAVVAR 450-71	450	535	350	220	300	6.0	12	11.5	495
RAVVAR 450-80	450	535	350	220	335	6.0	12	11.5	495
RAVVAR 450-90S	450	535	350	220	360	6.0	12	11.5	495
RAVVAR 450-90L	450	535	350	220	385	6.0	12	11.5	495
RAVVAR 630-71	630	716	450	250	300	6.0	16	11.5	676
RAVVAR 630-80	630	716	450	250	335	6.0	16	11.5	676
RAVVAR 630-90S	630	716	450	250	360	6.0	16	11.5	676
RAVVAR 630-90L	630	716	450	250	385	6.0	16	11.5	676
RAVVAR 630-100L	630	716	450	250	430	6.0	16	11.5	676
RAVVAR 630-112M	630	716	450	250	450	6.0	16	11.5	676
RAVVAR 900-90S	900	986	730	250	360	6.0	20	11.5	946
RAVVAR 900-90L	900	986	730	250	385	6.0	20	11.5	946
RAVVAR 900-100L	900	986	730	250	430	6.0	20	11.5	946
RAVVAR 900-112M	900	986	730	250	450	6.0	20	11.5	946
RAVVAR 900-132S	900	986	730	300	525	6.0	20	11.5	946
RAVVAR 900-132M	900	986	730	300	565	6.0	20	11.5	946
RAVVAR 1250-132S	1250	1358	1000	300	525	8.0	24	14	1306
RAVVAR 1250-132M	1250	1358	1000	300	565	8.0	24	14	1306
RAVVAR 1250-160M	1250	1358	1000	420	660	8.0	24	14	1306
RAVVAR 1250-160L	1250	1358	1000	420	700	8.0	24	14	1306
RAVVAR 1250-180M	1250	1358	1000	500	720	8.0	24	14	1306
RAVVAR 1250-180L	1250	1358	1000	500	760	8.0	24	14	1306
RAVVAR 1250-200L	1250	1358	1000	550	825	8.0	24	14	1306
RAVVAR 1250-225S	1250	1358	1000	590	870	8.0	24	14	1306
RAVVAR 1250-225M	1250	1358	1000	590	895	8.0	24	14	1306

### FLANGE MOUNTING HOLES

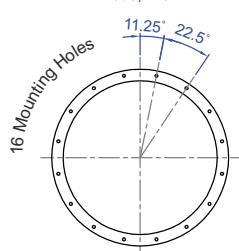
#### Fan Diameters

350, 400, 450, 500, 560



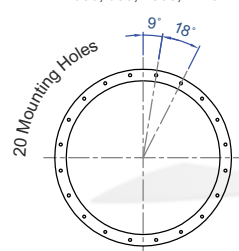
#### Fan Diameters

630, 710



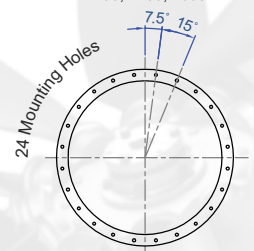
#### Fan Diameters

800, 900, 1000, 1120



#### Fan Diameters

1250, 1400, 1600

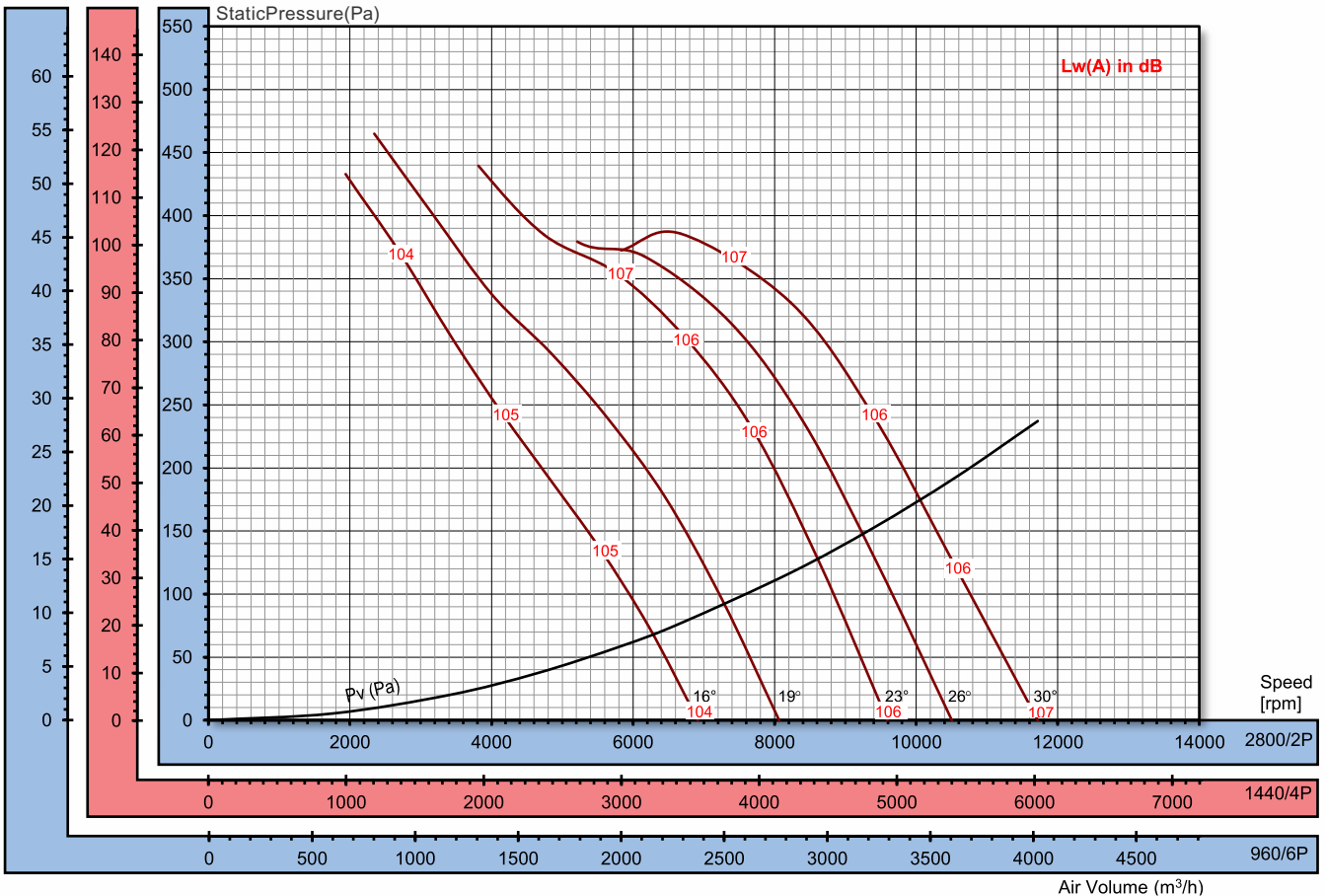
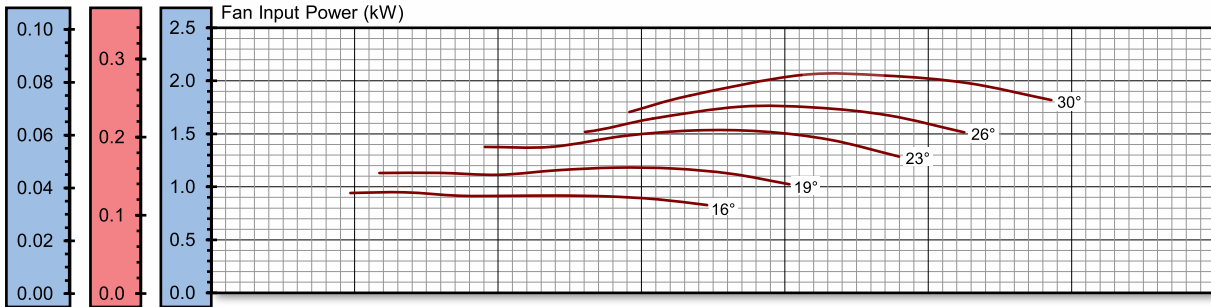
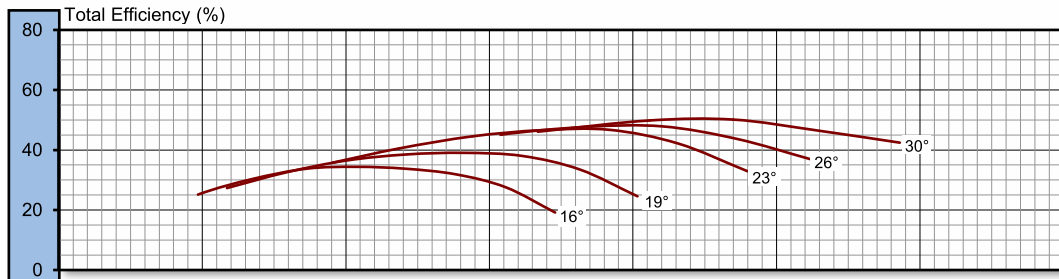


**Note :** ☼ Length of casing shall vary according to motor frame size and can be modified to suit site constraints.



# RAV VAR 450-170-5

## FEG53



Peak Fan Input Power (kW)

N (rpm)	Blade Pitch Angle					Lw(A)	Lp(A) at 3m
	16°	19°	23°	26°	30°		
960 motor	0.038	0.046	0.062	0.071	0.083	-28	-48
1440 motor	0.129	0.154	0.208	0.239	0.280	-17	-37
2800 motor	0.948	1.132	1.532	1.756	2.055	0	-20

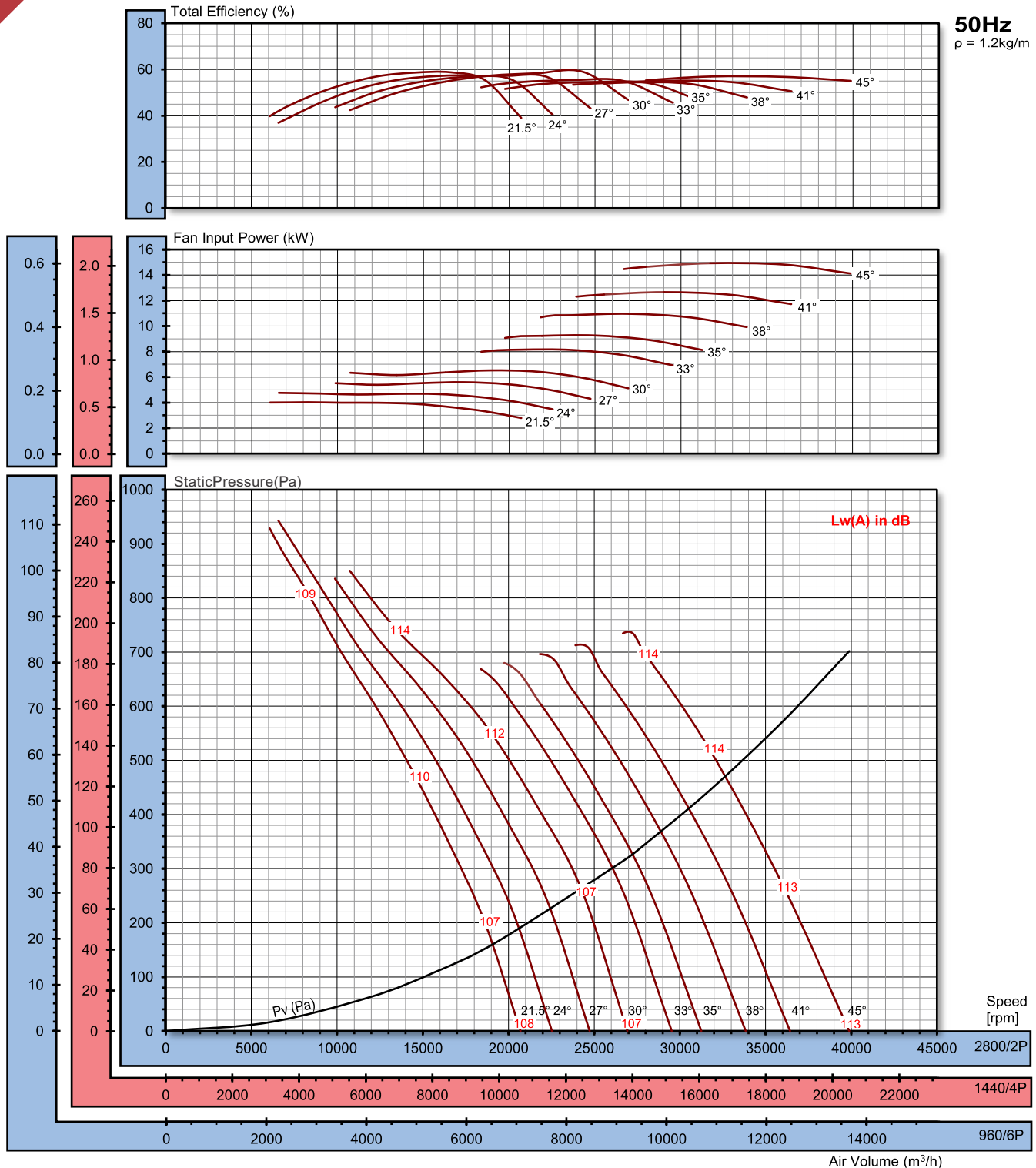
\* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

\* Lp(A) - dBA levels are not licensed by AMCA International

# RAV VAR 630-205-5

## FEG63

**50Hz**  
 $\rho = 1.2\text{kg/m}^3$



Peak Fan Input Power (kW)

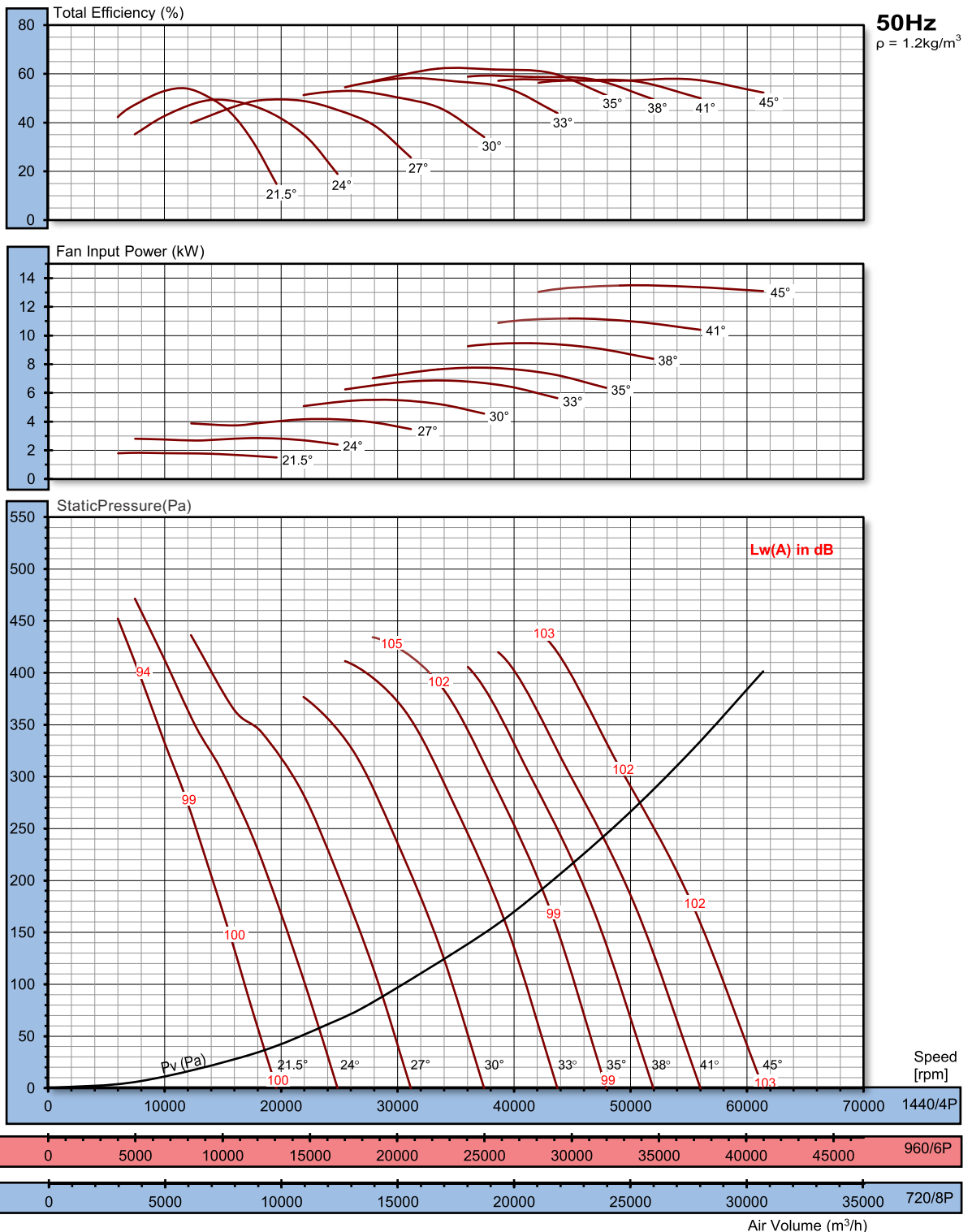
N (rpm)	Blade Pitch Angle									Lw(A)	Lp(A) at 3m
	21.5°	24°	27°	30°	33°	35°	38°	41°	45°		
960	0.16	0.19	0.23	0.26	0.33	0.37	0.44	0.51	0.60	-29	-49
motor	0.18		0.37				0.55		0.75		
1440	0.55	0.65	0.76	0.89	1.11	1.26	1.49	1.72	2.03	-17	-37
motor		0.75		1.1			1.5		2.2		
2800	4.03	4.76	5.60	6.52	8.15	9.26	10.96	12.66	14.93	0	-20
motor		5.5		7.5			11		15		

\* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

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# RAV VAR 900-275-6

## FEG63



Peak Fan Input Power (kW)

N (rpm)	Blade Pitch Angle									Lw(A)	Lp(A) at 3m
	21.5°	24°	27°	30°	33°	35°	38°	41°	45°		
720 motor	0.23 0.37	0.36 0.55	0.52 0.75	0.69 1.1	0.86 1.1	0.97 1.5	1.18 2.2	1.40 3.31	1.69 3.99	-18	-38
960 motor	0.54 0.75	0.85 1.1	1.23 1.5	1.63 2.2	2.03 3	2.29 4	2.80	3.31	3.99	-10	-30
1440 motor	1.83 2.2	2.85 3	4.16 5.5	5.50 7.5	6.84 11	7.74 15	9.46	11.19	13.48	0	-20

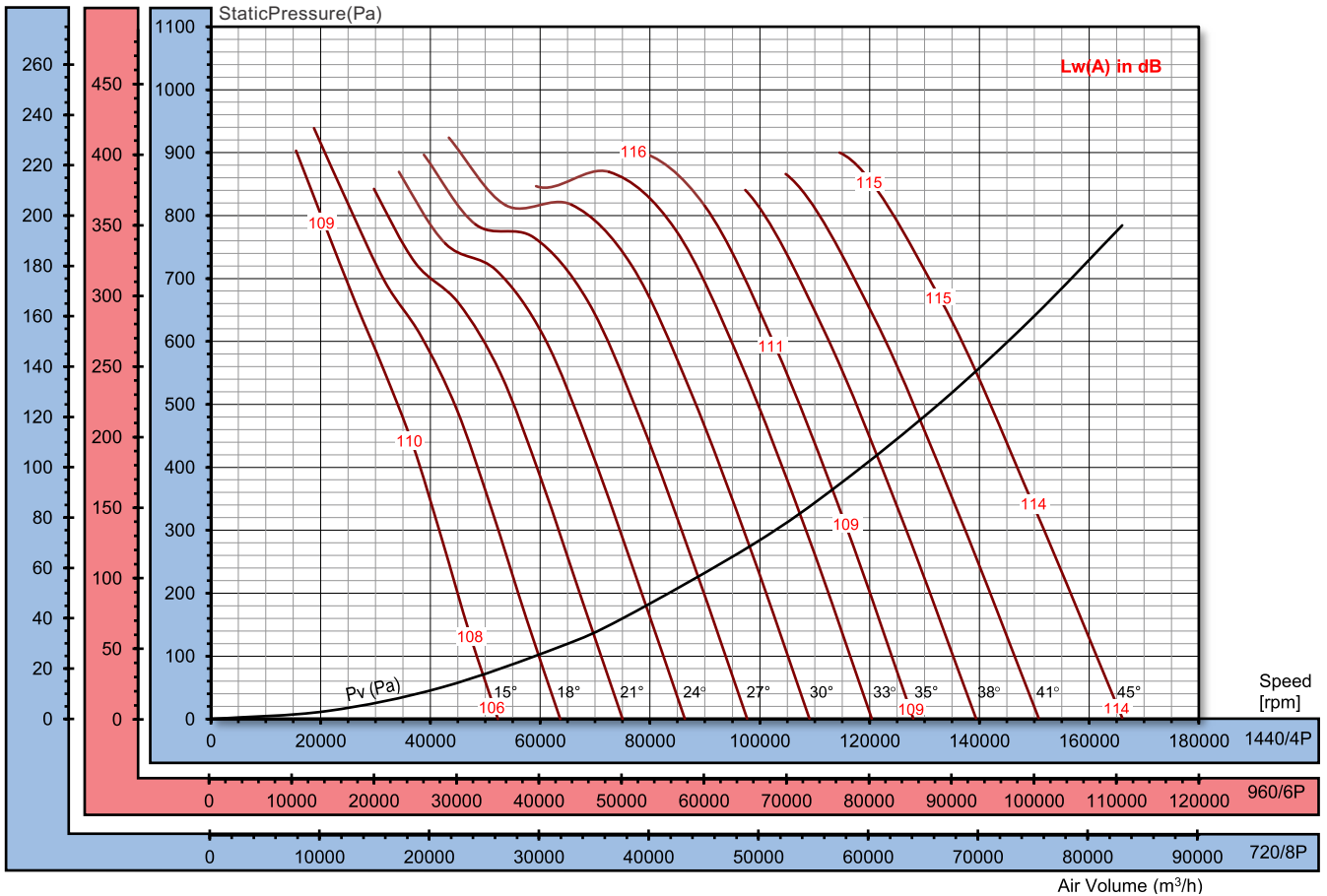
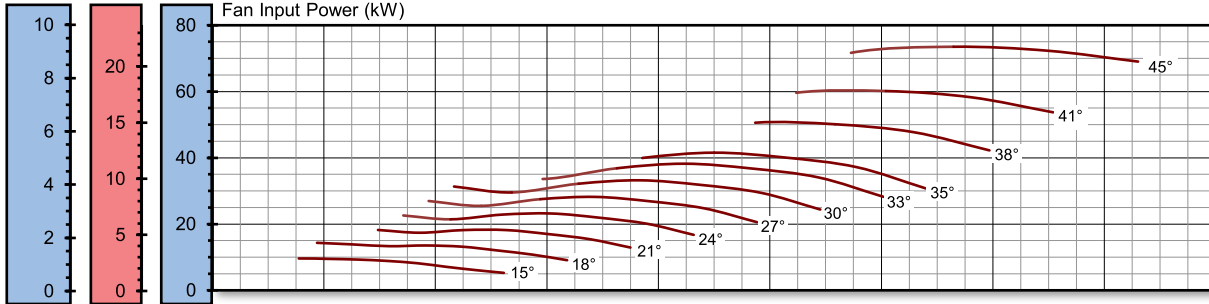
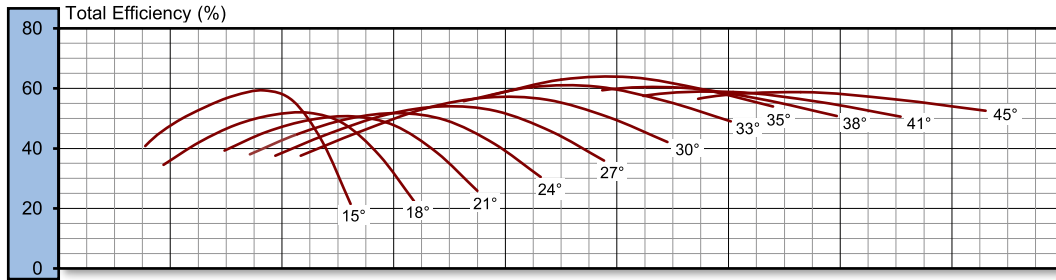
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\* Lp(A) - dBA levels are not licensed by AMCA International



# RAV VAR 1250-380-8

## FEG67



Peak Fan Input Power (kW)

N (rpm)	Blade Pitch Angle											Lw(A)	Lp(A) at 3m
	15°	18°	21°	24°	27°	30°	33°	35°	38°	41°	45°		
720 motor	1.20	1.79	2.28	2.90	3.52	4.15	4.78	5.19	6.32	7.52	9.31	-17	-37
960 motor	2.85	4.25	5.40	6.87	8.35	9.84	11.32	12.31	14.99	17.82	22.08	-10	-30
1440 motor	9.60	14.33	18.22	23.18	28.19	33.20	38.20	41.54	50.58	60.14	74.51	0	-20

\* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.  
\* Lp(A) - dBA levels are not licensed by AMCA International

# SMOKE EXTRACTION FANS

## (RAV VAR SE- Series)

VENTECH offers you a large range of smoke extraction solutions by means of being our Smoke Extraction Fans which have been successfully tried and tested for smoke extraction in case of fire.

### FEATURES

- ⊗ Comprehensive choice of diameters: Ranges from 250 mm to 1600 mm (10" to 64 ").
- ⊗ Special Terminal Box with approximately 1 m lead is provided as standard.
- ⊗ Capable of handling flow rates up to 1,50,000 CMH.
- ⊗ Static Pressures of up to 100 mm.wg. in single stage.
- ⊗ Direct Driven.

The Smoke-Extraction Fans operate as so-called "Dual-Function Fans":

- ⊗ Reducing secondary damage due to thermal by-products & hot gases.
- ⊗ Supporting fire fighting by creating a smoke-free zone.
- ⊗ Reducing the heat stress of components during a fire.
- ⊗ Normal operation (no instance of fire).
- ⊗ Fault operation (in case of fire).
- ⊗ Protecting devices & equipment.



### APPLICATIONS:

Typical application examples include:

- Single & multi-storey shopping centres
- Industrial buildings & warehouses
- Tunnels
- Building complexes & atriums
- Theatres
- Basements

### SPECIAL FEATURES OF MOTORS FOR SMOKE EXTRACTION APPLICATIONS

VENTECH fans use Fire rated / Smoke extraction Motors suitable for running in the most hazardous environments i.e Ventech Fans are fire rated for :

- ⊗ 250 deg. C for 2 hours continuous operation.
- ⊗ 300 deg.C for 2 hours continuous operation.
- ⊗ Motors are VFD Compatible.
- ⊗ Class of Insulation Available: 'H'

### SUPPLY VOLTAGE AND FREQUENCY

Voltage	200-690 V $\pm$ 10%
Frequency	50/60 Hz $\pm$ 5%
Standard motors are wound for 3 phase, 415 V, 50 Hz supply condition	
Specification	BS EN:12101-3
Construction	Terminal Box can be rotated 360 deg. In steps of 90 deg.
Performance	IE1 / IE2 compatible with VFD Dual Speed option available.

# MULTIPLE OPTIONS, ONE SOLUTION

Following special application fans are also offered depending on application and end use.

As all fans are incorporated with our high performance impellers, you can be assured of superior and reliable ventilation regardless of fan type, every time.

## VENTILATION FOR HAZARDOUS APPLICATIONS

### Explosion Proof Fans ( RAV VAR – EP Series )

- ⊗ Fitted with explosion proof / flame proof electric motors to meet exact hazardous location standards.
- ⊗ Specially constructed for safe handling of explosive or flammable particles, fumes or vapors.
- ⊗ Non-ferrous wheel and non-ferrous ring are provided.
- ⊗ Available in different sizes starting from 300 mm diameter.



## RELIABLE VENTILATION FOR HOSTILE ENVIRONMENT

### VENTECH Bifurcated Fans ( RAV VAR – BF Series )

- ⊗ These fans are used to handle hazardous air, where motors are kept outside the air stream.
- ⊗ Suitable for kitchen use or other hostile and highly contaminated environments.
- ⊗ Available in different sizes starting from 500 mm diameter.
- ⊗ Suitable where it is required to handle hot air / gas.
- ⊗ Air working temperatures of 150°C - 250°C.



### VENTECH Roof Extractor Units ( RAV VAR – RE Series )

- ⊗ These Roof Extractors incorporate a heavy duty galvanized steel stack cap with butterfly dampers to discharge air upward and prevent recirculation into the building.
- ⊗ Mild Steel Cowling: choice of plain mild steel cowl or cowl with adjustable damper for marine & industrial applications.
- ⊗ FRP Cowling: for cost effective non-hazardous industrial or commercial applications.
- ⊗ These units are used on the roof to extract and exhaust contaminated air.
- ⊗ Range: 300mm to 1600 mm diameter.



### VENTECH Propeller Exhaust Fans ( VPF Series )

- ⊗ Totally enclosed continuously rated motor  
Every Ventech Propeller Exhaust Fan features a capacitor start and run type motor, continuously rated, totally enclosed and ruggedly built.
- ⊗ Dynamically balanced sheet metal fabricated impeller.  
Since both hub and impeller are dynamically balanced, frames and arms mounted on rubber bushings, vibrations are virtually eliminated.



# MULTIPLE OPTIONS, ONE SOLUTION

## SQUARE PLATE AXIAL FAN UNITS FOR WALL MOUNTING

### Wall Mounted square plate axial flow fans ( RAVVAR -WM Series)

These fans are an efficient alternative to the ducted axial fan where installation is a constraint. Suitable to be run using single / three phase motors.

- ⊗ RAVVAR- WM - DD Series:

This arrangement is intended exclusively for use where the motor can be placed in the air current and where no change in speed is required. This is suitable for wall mounting.

- ⊗ RAVVAR - WM - BD Series:

This arrangement is used for blowing hot air or gas that the motor must be mounted outside the air current. The wall frame has a streamlined inlet. The impeller is attached to one end of the shaft supported by two ball bearings in one common housing which is supported on a bracket fitted to the wall frame. A pulley can be attached to the other free end of the shaft.

- ⊗ Useful for general industrial and commercial ventilation.
- ⊗ Available in either exhaust or supply configurations.
- ⊗ Square plates for wall mounting.



## ADAPTABLE & PORTABLE VENTILATION

### Industrial Man coolers ( VTM, VPM & VCM Series)

- ⊗ Ventech Industrial Mancoolers are designed for delivering powerful air stream for spot cooling for men, machines and material. These units are extensively used for cooling, drying & heat removal applications. Our Mancoolers have special features of swivelling and tilting arrangement.
- ⊗ Ventech Industrial Mancoolers aid in the dissipation of body heat through a higher evaporation rate , assisting to prevent heat exhaustion and increase personal safety.
- ⊗ Particularly effective where a clean healthy environment must be maintained for the safety of workers.
- ⊗ Column Mounted with tilting and swivelling arrangement ( VCM Series ).
- ⊗ Provide direct draft of air on MEN, MATERIAL and MACHINES.
- ⊗ Range : 500 to 1000 mm impeller diameter.
- ⊗ Available in 3 Types.
  - Tubular Mounted. ( VTM Series )
  - Pedestal Mounted. ( VPM Series )
  - Column mounted with tilting & Swivelling arrangement. ( VCM Series )

VCM Series



VTM Series



VPM Series

# OPTIONAL ACCESSORIES

FOLLOWING EXTENSIVE RANGE OF ACCESSORIES ARE ALSO AVAILABLE.

## Gravity Louvered Shutters

- ⊗ Suitable designed shutters work on the principle of gravity i.e they open when the fan is in running mode and shut automatically when fan is not in running mode.



## Exhaust Cowl and Bird Screen

- ⊗ Offered to Prevent ingress of foreign particles inside the axial fans when mounted on walls.



## Filter/Filter Frame with adapter cone

- ⊗ Normally used in the case of fresh air ventilation to trap outside dust particles to the maximum extent possible.



## Dampers

- ⊗ Offered to regulate air flow.
- ⊗ Can be fabricated in different materials of construction.



## DOL and Star Delta Starters

- ⊗ Starters of reputed make can be provided on request .



## Acoustic Silencers

- ⊗ Silencers can be added to both the fan inlet and outlet for the most critical noise applications.
- ⊗ Silencers are designed to reduce fan noise with minimal resistance to airflow.

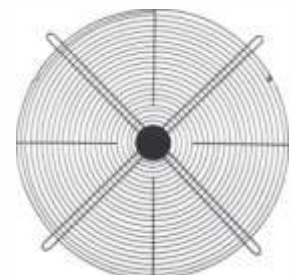
## Vibration Isolators

- ⊗ Rubber-in-shear and spring type isolators are available for floor or ceiling mounting.



## Protective Screens

- ⊗ Recommended for use when no duct work is attached to the inlet and/or outlet.
- ⊗ Screens are removable for routine inspection and cleaning of impeller.
- ⊗ Offered to protect personnel from moving parts.

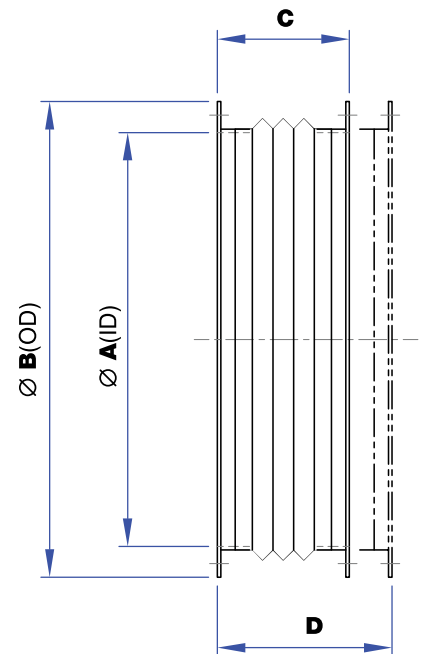


# OPTIONAL ACCESSORIES

## Flexible Collar with Matching Flanges

- Provides flexible interconnection and isolation of vibration with any matched interface.

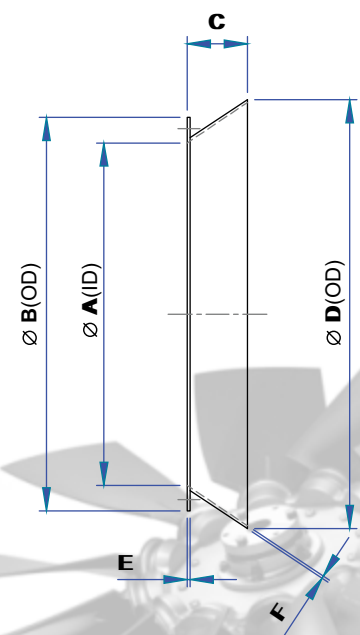
A	B	C	D
350	435	100	150
400	486	100	150
500	586	100	150
560	646	100	150
630	716	150	200
710	790	150	200
800	886	150	200
900	986	150	200
1000	1088	150	200
1120	1206	150	200
1250	1358	150	200
1400	1508	150	200
1600	1708	150	200



## Inlet Cones

- Recommended to minimize losses for installations where inlet of the fan is not attached to a ducted system.
- Inlet and outlet cones offer a round-to-round transition from the fan inlet and/or outlet to the specific duct diameter of the system.

A	B	C	D	E
350	435	60	400	6.0
400	486	70	510	6.0
500	586	90	640	6.0
560	646	100	715	6.0
630	716	110	800	6.0
710	796	125	890	6.0
800	886	135	995	6.0
900	986	150	1110	6.0
1000	1088	165	1230	6.0
1120	1206	185	1375	8.0
1250	1358	205	1525	8.0
1400	1508	230	1710	8.0
1600	1708	265	1960	8.0

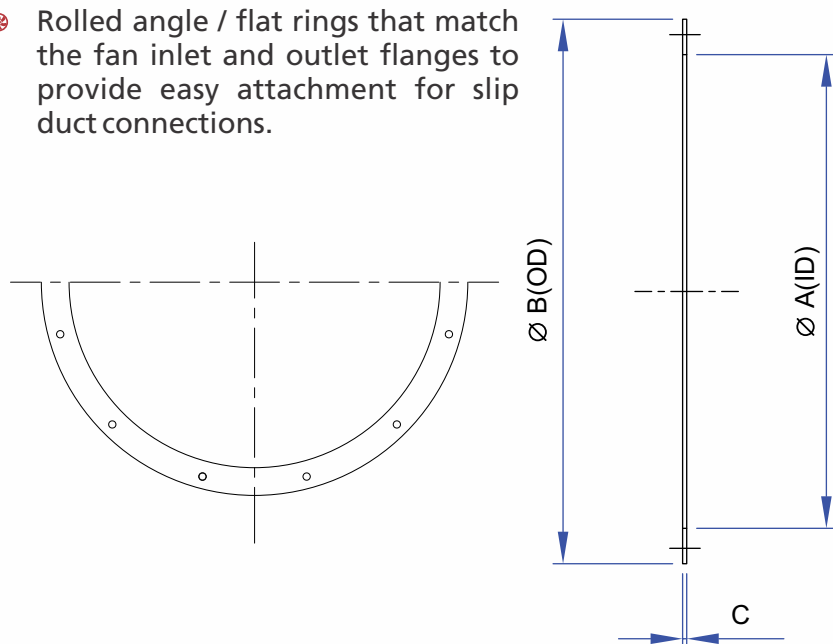




# OPTIONAL ACCESSORIES

## Matching Flanges

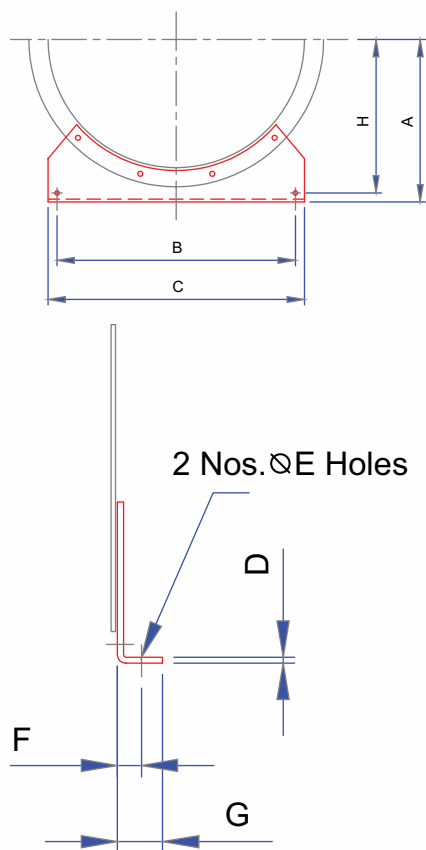
- ⊗ Rolled angle / flat rings that match the fan inlet and outlet flanges to provide easy attachment for slip duct connections.



A	B	C
350	435	6.0
400	486	6.0
500	586	6.0
560	646	6.0
630	716	6.0
710	796	6.0
800	886	6.0
900	986	6.0
1000	1088	6.0
1120	1206	6.0
1250	1358	8.0
1400	1508	8.0
1600	1708	8.0

## Mounting Brackets

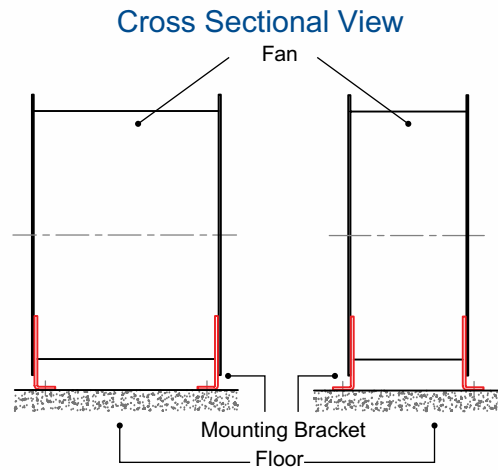
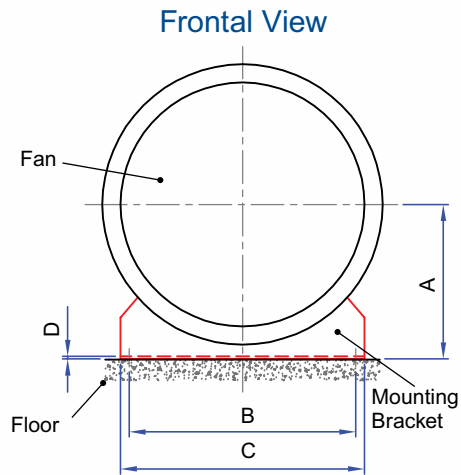
- ⊗ Mounting brackets are bolted to the inlet and outlet of the fan.
- ⊗ Available for ceiling hung or floor mount configurations.



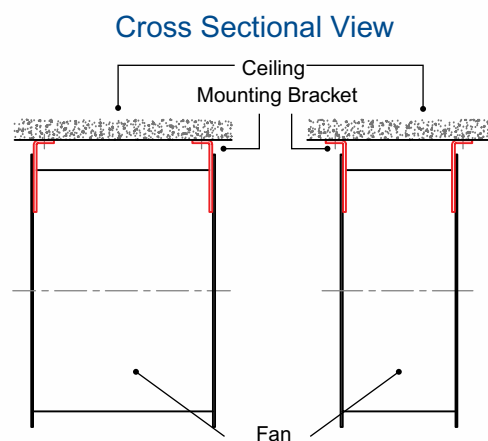
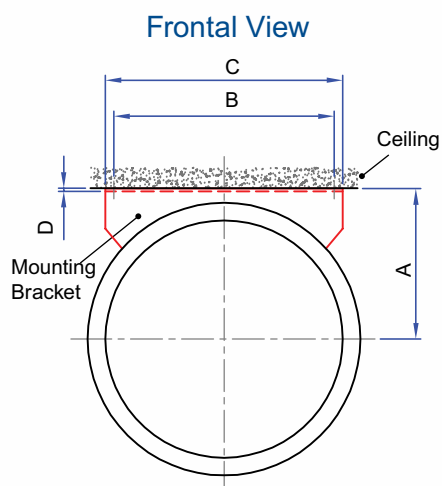
Fan Dia.	A	B	C	D	E	F	G	H
350	235	300	350	4.0	10	23	40	215
400	250	350	400	4.0	12	27.5	50	230
500	315	450	500	4.0	12	27.5	50	290
560	355	510	560	4.0	12	32	60	330
630	400	580	630	4.0	12	32	60	375
710	450	660	710	4.0	12	32	60	425
800	500	750	800	6.0	12	32	60	475
900	560	850	900	6.0	16	16	70	530
1000	630	950	1000	6.0	16	36	70	595
1120	700	1070	1120	6.0	16	36	70	665
1250	780	1200	1250	6.0	16	36	70	745
1400	840	1300	1400	6.0	16	36	70	805
1600	950	1500	1600	8.0	20	40	75	900

# MOUNTING TYPES

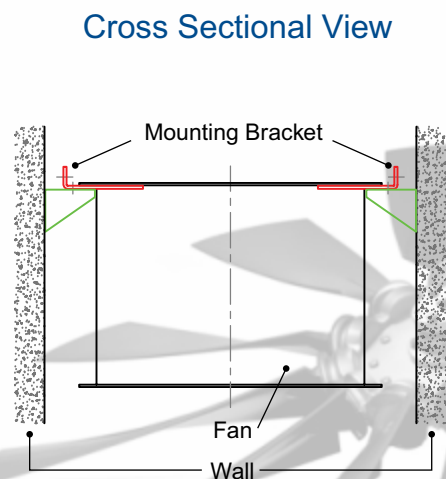
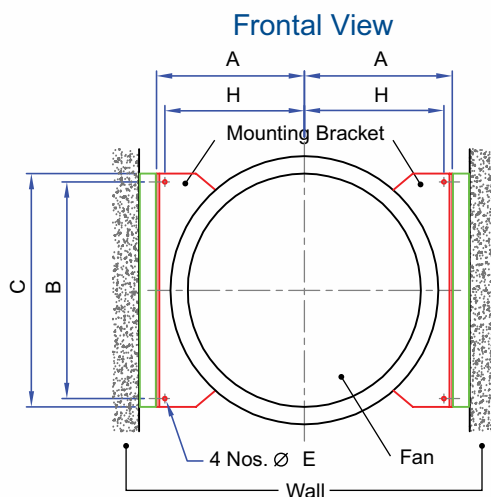
## FOOT MOUNTED - HORIZONTAL



## CEILING MOUNTED - HORIZONTAL



## RIGID MOUNTED - VERTICAL





*Testing of 'Ventech' Fan at AMCA accredited laboratory in Malaysia*

## RANGE OF PRODUCTS

● Axial Flow Fans ● Centrifugal Blowers ● Kitchen Scrubbers ● Ventilation Units  
Air Cooling Units ● Dust Collectors ● Rotary Airlocks ● Air Handling System Accessories

## RANGE OF SYSTEMS

● Pressurisation & Ventilation ● Evaporative Air Cooling ● Dust Extraction & Collection  
● Fume Extraction & Collection ● Fresh Air Supply & Exhaust ● Kitchen Ventilation  
● Pneumatic Conveying ● Air Conditioning



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