Ventech Classic Airfoil Axial Family

Axial Flow Fan (RAV VAR Series)

www.ventechsystems.com

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

In view of our constant endeavour to improve the quality of our products & systems, we reserve the right to alter the specifications without prior notice. We reserve the right to modify the specifications in accordance with improved designs. Although every effort will be made to maintain accuracy in the data given, the figures must be taken as approximate and in no way binding. Contact us for more information.
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.

AMCA an International Authority on Air System Components has certified Direct Driven Fans of RAV-VAR (DD Series) for Sound and Air Performance as per AMCA Standards 300 AND 210 Respectively.

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: Air flowing from motor to impeller are fitted as standard. Air flowing from impeller to motor can be supplied on request.
- Static Pressure: upto 100 mm.w.g. in single stage. Higher pressures are possible on multi-stage versions, contra-rotating.
- Comprehensive choice of diameters: Ranges from 250 mm to 1600 mm (10” to 64”).
- 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

PRODUCT DESCRIPTION

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

TECHNICAL SPECIFICATIONS

CONSTRUCTIONAL FEATURES AND OPTIONS

Direct Driven Axial Fan
- Mounting Support (Optional): Eight mounting supports are welded to each fan to allow for universal mounting.
- Impeller: Polypropylene and Aluminium impellers are selected for maximum air flow and low sound.
- Factory Run & Tested: For quality assurance and dependable operation.

Belt Driven Axial Fan
- Drives: Sized for a minimum 150% of motor horsepower.
- Mounting Support (Optional): Eight mounting supports are welded to each fan to allow for universal mounting.
- Housing: Heavy-gauge rolled galvanized steel with continuous welded seam and epoxy coating for maximum strength.
- Factory Run & Tested: For quality assurance and dependable operation.

- 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.

Welded Inlet and Outlet Flanges
- With mounting holes.

Motor
- National Brands with local service. Standard motors are heavy-duty open drip-proof. Other options available.

Housing
- Heavy-gauge rolled galvanized steel with continuous welded seam and epoxy coating for maximum strength.

Motor Base
- Adjustable steel motor base is designed for strength and ease of belt tensioning.

Welded Inlet and Outlet Flanges
- With mounting holes.

Extended lubrication lines
- Extend from bearings to the outside of the unit.

Bearings
- Heavy-duty ball bearing cast pillow blocks are designed for minimum 200,000 hours of operation, L50.

Impeller
- Aluminium impellers are selected for maximum air flow and low sound.

www.ventechsystems.com
TECHNICAL SPECIFICATIONS

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.

MOTORS

- Standard Motors for running Normal fans are suitable for operation on 415 volts ±10%, 50 Hz ±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 Certified Laboratory in Malaysia/Singapore. 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.
- Test procedures are in accordance with relevant AMCA standards.

DIRECT DRIVEN AXIAL FAN

(LONG / SHORT CASED)

Fan Model Code A B C D E F G H I
RAVVAR 350-71 350 435 300 180 300 6.0 12 11.5 396
RAVVAR 400-71 400 486 350 220 300 6.0 12 11.5 446
RAVVAR 400-90S 400 486 350 220 360 6.0 12 11.5 446
RAVVAR 400-90L 400 486 350 220 385 6.0 12 11.5 446
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 500-71 500 586 400 220 300 6.0 12 11.5 546
RAVVAR 500-80 500 586 400 220 335 6.0 12 11.5 546
RAVVAR 500-90S 500 586 400 220 360 6.0 12 11.5 546
RAVVAR 500-90L 500 586 400 220 385 6.0 12 11.5 546
RAVVAR 560-71 560 646 450 220 300 6.0 12 11.5 606
RAVVAR 560-80 560 646 450 220 335 6.0 12 11.5 606
RAVVAR 560-90S 560 646 450 220 360 6.0 12 11.5 606
RAVVAR 560-90L 560 646 450 220 385 6.0 12 11.5 606
RAVVAR 560-112M 560 646 450 250 430 6.0 12 11.5 605
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 630 716 450 250 395 6.0 16 11.5 676
RAVVAR 630-112M 630 716 450 250 450 6.0 16 11.5 676
RAVVAR 710-80 710 796 590 250 335 6.0 16 11.5 756
RAVVAR 710-90S 710 796 590 250 360 6.0 16 11.5 756
RAVVAR 710-90L 710 796 590 250 385 6.0 16 11.5 756
RAVVAR 710-112M 710 796 590 250 450 6.0 16 11.5 756
RAVVAR 710-132S 710 796 590 300 525 6.0 16 11.5 756
RAVVAR 800-80 800 886 600 250 335 6.0 20 11.5 846
RAVVAR 800-90S 800 886 600 250 360 6.0 20 11.5 846
RAVVAR 800-90L 800 886 600 250 385 6.0 20 11.5 846
RAVVAR 800-100L 800 886 600 250 430 6.0 20 11.5 846
RAVVAR 800-112M 800 886 600 250 450 6.0 20 11.5 846
RAVVAR 800-132S 800 886 600 300 525 6.0 20 11.5 846
RAVVAR 800-132M 800 886 600 300 565 6.0 20 11.5 846
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

Note: Length of casing shall vary according to motor frame size and can be modified to suit site constraints.
VENTECH Belt driven Fans are driven by belt and pulley arrangement. The motor is located outside the air stream. VENTECH belt driven fans are ideal for moisture laden or dust laden or where system is required to exhaust hot air.

In this arrangement, the fan shaft and its bearings are mounted in a bearing housing fastened by three support arms to the surrounding casing.
**BELT DRIVEN AXIAL FANS**  
*(LONG CASING ONLY)*

**FLANGE MOUNTING HOLES**

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</table>

**Note:**  
- Dimensions / details of larger diameters available.  
- Length of casing shall vary according to motor frame size and can be modified to suit site constrains.

**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
- Tunnels
- Industrial buildings & warehouses
- 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**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Frequency</th>
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<tr>
<td>200-690 V ± 10%</td>
<td>50/60 Hz ± 5%</td>
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</table>

Standard motors are wound for 3 phase, 415 V, 50 Hz supply condition

<table>
<thead>
<tr>
<th>Specification</th>
<th>Construction</th>
<th>Performance</th>
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<tr>
<td>BS EN:12101-3</td>
<td>Terminal Box can be rotated 360 deg. In steps of 90 deg.</td>
<td>IE1 / IE2 compatible with VFD Dual Speed option available.</td>
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</table>
**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 (RAVVAR – 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 (RAVVAR – 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 (RAVVAR – 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.

**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)
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.

Flexible Collar with Matching Flanges
- Provides flexible interconnection and isolation of vibration with any matched interface.

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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.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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Can be fabricated in different materials of construction.
**Optional Accessories**

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

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

**Mounting Types**

**Foot Mounted - Horizontal**
- Frontal View
- Cross Sectional View
- Foot Mounting Bracket

**Ceiling Mounted - Horizontal**
- Frontal View
- Cross Sectional View
- Ceiling Mounting Bracket

**Rigid Mounted - Vertical**
- Frontal View
- Cross Sectional View
- Wall Mounting Bracket

**Matching Flanges**

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**Mounting Brackets**

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