



Corrosive Air Ventilators

Laboratories
Schools
Methane Exhaust
Petrochemical Exhaust
Wastewater Treatment
Chlorine Rooms
Battery Storage Rooms

Forward Curved Impeller



Characteristics and Design

Plastic radial fans with forward curved impellers are used for ventilation of aggressive mediums like acidic or solvent vapors and with low CFM and high pressure static. These corrosive mediums are typically found in schools, petrochemistry, methane exhaust, wastewater treatment plants, chlorine rooms, laboratories and battery storage rooms.

The housing can be rotated in 45° steps allowing for up to eight (8) positions of discharge in counter clockwise direction (CCW).

Housing

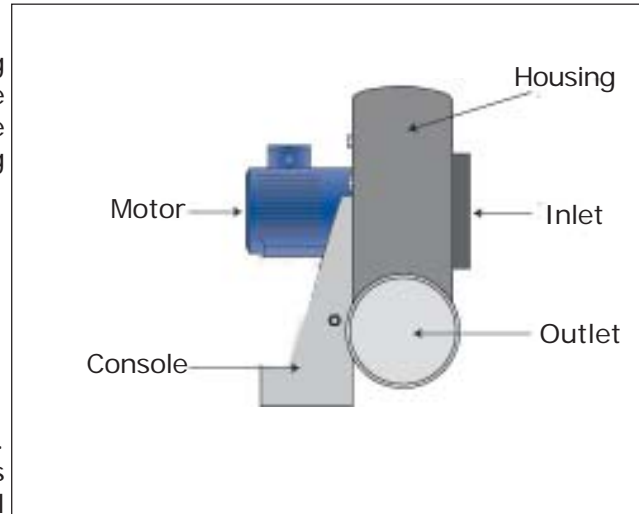
The housing are produced following a rotational casting procedure and made of hard inflammable polypropylene (PP). The construction allows the removal of the motor, impeller and the console without disconnecting the housing from the duct system.

Impellers

he impeller is of a forward curved airfoiled (FCA) design. The impeller shall be Injection molded from high strength polypropylene. Blower impellers shall be suitable for an RPM of up to 3450.

Motors

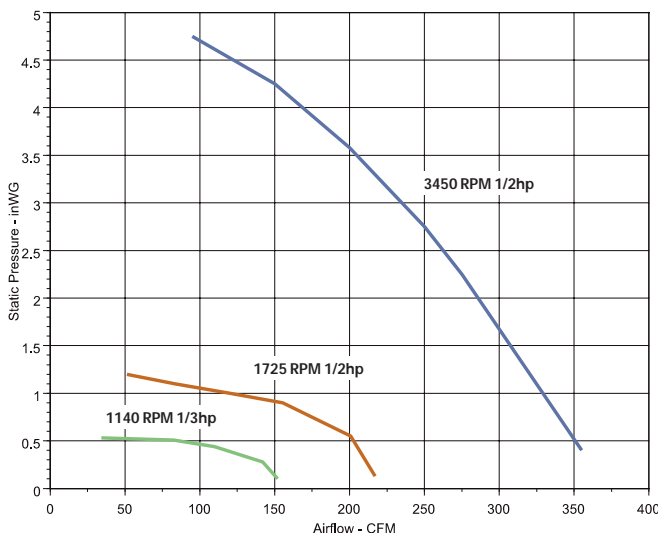
Single and three phase motors are used as specified. Single phase motors are dual voltage (115/230V) unless otherwise specified. Three phase motors are dual voltage (230/460V) unless otherwise specified. Single phase motors and three phase motors provided are totally enclosed fan cooled (TEFC). Explosion proof motors and inverter duty motors available upon request.



Consoles

The consoles are coated to prevent corrosion. All motors are face mounted to the console using 304 stainless steel hardware.

Performance



The CAV Series includes eight (8) different discharge directions and a range of low CFM at high static pressures. The CAV Series will satisfy many corrosive air applications. Ranging from 40 CFM at 0.5 in WG with steady increments to 350 CFM at 0.5 in WG. The CAV Series can handle up to 4.75 in WG.

Chemical Resistance

The chemical resistance depends on materials and sealing materials that are in contact with ventilated mediums.

Apart from the composition of the fan, the chemical resistance depends on concentration, temperature and duration of contact of the ventilated medium.

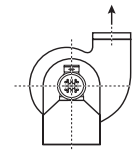
For detailed corrosion resistant information, please contact our factory.

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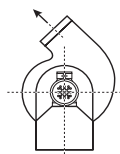
Rotation and Discharge for Centrifugal Fans

STANDARD

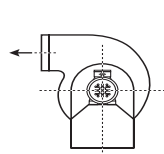


Up Blast
CCW 360°

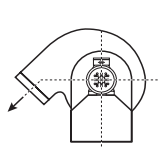
OPTIONAL FIELD ADJUSTABLE POSITIONS



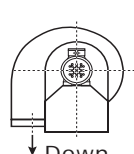
Top Angular
UP Blast
CCW 45°



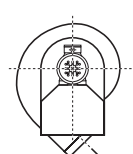
Top Horizontal
CCW 90°



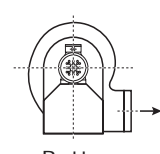
Top Angular
Down Blast
CCW 135°



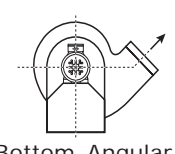
Down Blast
CCW 180°



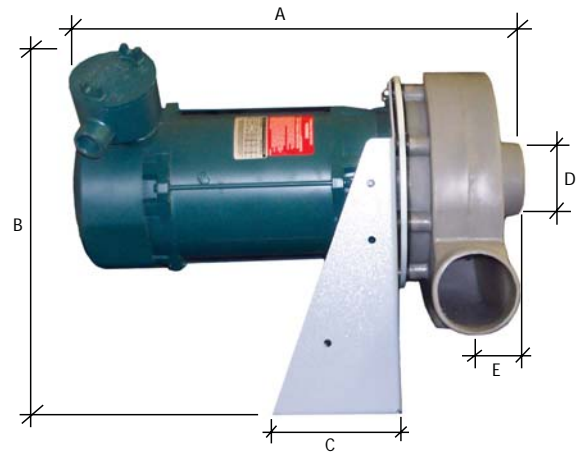
Bottom Angular
Down Blast
CCW 225°



Bottom Horizontal
CCW 270°



Bottom Angular
Up Blast
CCW 315°



A	B	C	D	E	F	G	H	I
20	17	5.5	3.5	3.25	15	3.25	9.25	13.75

*Slight variations in dimensions might occur depending upon motor selection

***All Measurements in Inches**

Accessories

Drain Plug
 Disconnect Switch
 Explosion Proof Disconnect Switch
 Rain Cap
 Weather Cover
 Vibration Isolator
 Clean Air Stack
 Adjustable Damper
 Back Draft Damper
 Inlet Guard

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