



SERIES 57 GUIDE SPECIFICATION

FIBERGLASS DIRECT DRIVE UPBLAST ROOF VENTILATOR

The Fiberglass Direct Drive Upblast Roof Ventilator shall be manufactured by Hartzell Air Movement, Series 57. Standard sizes are 28" through 60". The ventilator shall be completely assembled, packaged, and ready to install.

The fan frame shall consist of solid steel rods with mounting plates on the four rod ends with mounting holes and a motor base which are welded together. This assembly shall be coated with an air-dry epoxy chemical resistant finish.

The orifice panel, wind band, lids and channels are sprayed up of chopped glass and resin. The fiberglass propeller shall be a die formed airfoil design of cloth mat and woven roving using Ashland Hetron 693, a polyester resin with 3% antimony oxide added to achieve a Class I flame spread rate below 25 per ASTM E84 tunnel test standard and NFPA Code 91 for blower and exhaust systems which is OSHA approved. Construction shall conform to ASTM Standard D4167 for fiber reinforced plastic fans and blowers. The propeller hub has an aluminum casting insert for secure attachment to the shaft.

The motor shall be a totally enclosed air over type for use in light corrosive atmospheres. The maximum service temperature is 104° F. for standard Class F insulation.

All mounting hardware shall be Type 304 stainless steel. Lid axles are Type 304 stainless steel. Lid axle bearings are nylon.

The fan assembly shall be dynamically balanced at the Hartzell factory prior to shipping. Fans shall be balanced to the American National Standards Institute, Std. S2.19-1989 "Balance Quality of Rotating Rigid Bodies", and Grade G6.3. Fans shall be manufactured in accordance with Hartzell's standard quality assurance procedures. Fan performance shall be based on tests conducted in Hartzell's AMCA accredited test laboratory in accordance with the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

ACCESSORIES:

- Alternative Resins - Dow Derakane 510-A vinyl ester, brush coating of Reichhold Dion 6694.
- Motors - Explosion proof, chemical duty, and high temperature (to 180° F.) motors can be furnished upon request.
- Birdscreen - Steel or epoxy coated.
- Safety Guard - Steel or epoxy coated.
- Electrical Grounding - Interior airstream surfaces can be coated with a "carbon rich" resin coat and grounding straps secured from the side of the housing to the fan motor. All that remains to effectively ground the airstream is to ground the fan motor at the time of installation.
- Hi-Cor Construction - All airstream surfaces exposed to the corrosive environment will be reinforced with a layer of surfacing veil. An additional final coat of resin will be applied for extra corrosion resistance.
- Hardware - Special corrosive conditions may require Type 316 stainless steel or Monel.
- Pre-Fabricated Curb - For roof top installation of roof ventilators.



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- Lifting Lugs - Stainless steel on curb base. Provides means to lift and handle fans.
- Extended Lube Tubes - For more accessible relubrication capability.