



SERIES 59 GUIDE SPECIFICATION

FIBERGLASS DIRECT DRIVE WALL VENTILATOR

The Direct Drive Fiberglass Wall Ventilator shall be manufactured by Hartzell Air Movement, Series 59. Standard sizes are 12" through 60". The fan shall be packaged, completely assembled, and ready to install.

The fan housing with outlet fan orifice shall be a one-piece design deep box, flanged on the intake end, with motor base plate and vertical base supports all of solid fiberglass 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 of below 25 per ASTM E84 tunnel test standard and NFPA Code 91 for blower and exhaust systems which is OSHA approved. Fan construction shall conform to ASTM Standard D4167 for fiber reinforced plastic fans and blowers. The propeller hub shall have an aluminum casting insert for secure attachment to the shaft.

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

All mounting hardware shall be Type 304 stainless steel.

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 AMCA Standard 210 for air performance and AMCA Standard 300 for sound. Fans shall be licensed to bear the AMCA Certified Air Performance Rating Seal.

ACCESSORIES:

- Mounting Flange - Fiberglass bonded to the orifice end of the unit with same face drilling as inlet flange box. (Customer to specify location.)
- Alternative Resins - Dow Derakane 510-A vinylester, brush coating of Reichhold Dion 6694.
- Motors - Chemical plant duty type with higher insulation class for temperatures to 180° F.
- Guards - Inlet and outlet guards, OSHA approved.
- 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.
- Boot - Fiberglass boot for mounting a shutter with a panel fan.
- Shutter - Fiberglass end pivoted damper.