



SERIES 58E GUIDE SPECIFICATION

FIBERGLASS BELT DRIVE HOODED ROOF VENTILATOR, EXHAUST

The Fiberglass Belt Drive Hooded Roof Ventilator, Exhaust shall be manufactured by Hartzell Air Movement, Series 58E. Standard sizes are 12" - 60". The hood shall be complete with mounting panel, shipped separately sizes 24" - 60". The fan shall be pre-mounted to the curb base up to and including the 48". The 54" and 60" curb bases shall be shipped separately. The 12" - 18" shall be completely assembled, packaged and ready to install.

The resin used on the Series 58E is Ashland Hetron 693 which is 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. The propeller shall be an aluminum insert molded into the hub for secure attachment to the shaft. The 54" - 60" shall be composed of either 4 or 6 blades securely clamped in a 2-piece hub. The hub shall be assembled with Type 304 stainless bolts and mounted on the fan shaft with tapered bushing. Propellers shall be given two coats of resin before final assembly. Fiberglass fan housings and components may be used in temperatures up to 200° F.

Fan housings, curb bases, and hoods shall be constructed of solid fiberglass including the flanges which have drilled mounting holes. Motor mountings shall be steel plate coated with resin and mounted on the drum exterior with glass mat, cloth and resin. All surfaces of the housing shall have one coat of heavy resin applied. Construction shall conform to ASTM Standard D4167 for fiber reinforced plastic fans and blowers. The encapsulated assembly base, Type 304 stainless steel riser bolts and epoxy coated motor base provide support for the motor, out of the air stream. Motors shall be open end protected. All other hardware shall be Type 304 stainless steel.

Fan shafts shall be ground and polished Type 304 stainless steel. Bearings shall be located in a drive compartment sealed to prevent corrosive element entry which shall include a shaft seal and slinger. Bearings shall be heavy duty, self-aligning. Bearings shall have extended lube tubes and be relubricable for continuous service. Variable pitch sheaves shall be standard on fans up through 10 HP and belts shall be heat, oil, and static resistant and sized for continuous service. Fans shall be designed for mounting in vertical position.

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 certified test laboratory in accordance with AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

ACCESSORIES:

- Motors - Explosion proof, chemical duty, high temperature, and other special motors can be furnished upon request.
- Motor Cover - All fiberglass with louvers positioned for horizontal or vertical mounting.

- Inlet Guard and Outlet Screens - Prevents access to rotating prop, steel, epoxy coated, or stainless steel.
- Hardware - Special corrosive conditions may require Type 316 stainless steel or Monel.
- Damper Assembly - Two stack cap lids with hinges to prevent backflow air.
- Hi-Cor Construction - Extra flange mounting holes are provided. 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.
- 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.
- Alternative Resins - Dow Derakane 510-A vinylester, brush coating of Reichhold Dion 6694.
- Extended Lube Tubes - For more accessible relubrication capability.
- Pre-Fabricated Curb - For roof top installation of roof ventilators.
- Lifting Lugs - Stainless steel lifting lugs on curb base.