



SERIES 43 GUIDE SPECIFICATION

FIBERGLASS RADIAL BLOWER

The Fiberglass Radial Blower shall be manufactured by Hartzell Air Movement, Series 43, ARRG. 1, 9, 9M, or 10. Standard sizes are 16" through 33". Rotation as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing, for all sizes shall be field rotatable and the discharge shall be any of the eight AMCA standard positions. The fan shall be completely assembled, packaged and ready to install.

The resin used on the solid fiberglass wheel shall be Dow Derakane 510-A vinyl ester. The radial bladed wheel shall have a totally encapsulated aluminum core insert for secure attachment to the shaft. The fan is suitable for temperatures up to 250° F.

Fan housings shall be constructed of Ashland Hetron 693 polyester resin and glass fiber with 3% antimony trioxide added to achieve Class I flame spread below 25. Fan construction shall conform to ASTM Standard D4167 for fiber reinforced plastic fans and blowers. All fiberglass surfaces shall be protected with a minimum 10 mil thickness of chemical, flame and ultra-violet resistant resin. The inlet adapter shall be solid fiberglass. The entire housing shall have a finish coat of resin to provide superior protection and smooth airflow. All airstream hardware shall be 304 stainless steel. Fan drive base shall be epoxy coated steel.

Fan shaft shall be ground and polished carbon steel with an FRP sleeve in the airstream. Bearings shall be heavy duty, self-aligning with extended lube tubes for continuous service, with a minimum of 50,000 hours L10 life. A neoprene shaft seal shall be located where the shaft enters the housing with a neoprene shaft slinger between the seal and wheel. V-belt drives shall be sized for continuous service.

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", 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 and 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:

- Combination Motor Cover & Belt Guard - Epoxy coated steel.
- Belt Guard - Epoxy coated steel, covers belts and motor sheave.
- Safety Guard - Fits on inlet or outlet of fan. Made of epoxy coated steel.
- Vibration Isolators - For horizontal floor mount. Available in rubber-in-shear or spring type.
- Drain - PVC pipe assembled in housing, 1" female fitting.
- Inlet Dampers - Used to control volume. Standard construction is available through 7" SP and 3000 FPM, and is epoxy coated steel.
- Hi-Cor Construction - Extra flange mounting holes. All air stream surfaces have a surfacing veil and an additional coat of resin.

- Electrical Grounding - Air stream surfaces are coated with a "carbon rich" coating with grounding straps to the motor frame. User must properly ground the equipment at the installation.
- Motors - TEFC standard. OEDP and other special motors are available upon request.
- Inspection Door - Small opening for visual inspection of wheel. Gasketed and held in place with stainless steel bolts.
- Flanged Inlet - Solid fiberglass inlet flange, available drilled or undrilled.
- Special Hardware - 316 stainless steel or Monel for special chemical environments.
- Outlet Dampers - Used to control air volume. Epoxy coated steel or stainless steel, either parallel or opposed blade type.
- ARRG. 1 Sub-Base - Epoxy coated structural base to provide motor and fan support.
- 9M Sub-Base - Motor sub-base to accommodate larger motor in horizontal position.
- Abrasion/Erosion Resistant Coating (HartKoate) - Particularly useful when water mist and/or abrasive particles exist in the air stream.