

SERIES 13 GUIDE SPECIFICATION

BACKWARD CURVED CENTRIFUGAL FAN, SINGLE WIDTH

The belt drive Backward Curved Centrifugal Fan, Double Width, shall be manufactured by Hartzell Air Movement, Series 13, ARRG. 3 or 7, Class I, II, or III. Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing, for sizes 10 through 27, shall be field rotatable and the discharge shall be any of the four AMCA standard positions. Sizes 30 through 60 shall be a fixed construction for the rotation and discharge specified.

The fan housing and base shall be a heavy gage commercial quality carbon steel suitable for temperatures up to 200° F. The housing and wheels shall be welded in compliance with AWS D1.1 standard. The wheels shall be commercial quality carbon steel with backward inclined, single, or double thickness airfoil blades and have non-overloading horsepower characteristics. The shafts shall be ground and polished. The fan bearings shall be heavy duty, self-aligning ball or roller type (depending on fan size, motor HP, and performance) and relubricable for continuous service. They shall have a minimum L10 life of 50,000 hours. The belts shall be oil, heat, and static-resistant type sized for continuous duty.

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 laboratory in accordance with the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound. Fans shall be licensed to bear the AMCA Certified Sound and Air Performance Rating Seal.

ACCESSORIES:

- Motors - TEFC standard. OEDP and other special motors can be furnished upon request.
- Special Construction - Other material such as stainless steel and aluminum are available.
- Drain Pipe Coupling - Pipe coupling welded to the housing at its lowest point; female pipe with threaded plug.
- Access Door - For inspection and cleaning of wheel, bolted and gasketed, or a hinged, quick release type.
- Vibration Isolators - Rubber-in-shear or spring type available.
- Outlet Flanges - Available with or without mounting holes.
- Guards - Provides protection when unit is at a working level. Inlet and outlet guards are available. Drive guards are only available with a sub-base.
- ARRG. 3 Sub-Base - Common Structural support for ARRG. 3 fan and motor.
- Split Housing - Allows removal of the wheel and shaft without disturbing the fan inlet.
- Coatings - Standard surface coating system shall be phosphatized surface preparation with industrial grade air dry enamel paint. Hot dipped galvanized, epoxy, inorganic zinc, catalyzed coal tar epoxy, and other coatings are available upon request.
- Inlet Vane Control Damper - Manual or automatic adjustable damper nested in the inlet cone.
- Outlet Dampers - Galvanized steel, either parallel or opposed blade type.