



SERIES 05 GUIDE SPECIFICATION

INDUSTRIAL CENTRIFUGAL FAN, SINGLE WIDTH

The belt drive Industrial Centrifugal Fan, Single Width, shall be manufactured by Hartzell Air Movement, Series 05, ARR.G. 1, 4, 8, 9, 9M, or 10. Four wheel styles, air handling type (AH, 12" - 57"), material handling type (MH, 12" - 57"), trim handling type (TH, 12" - 57"), and paddle wheel type (PW, 12" - 57", PWR, 29" - 57") are available. Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan housing, for sizes 12 through 29, shall be field rotatable and the discharge shall be any of the eight AMCA standard positions. Sizes 33 through 57 shall be a fixed construction for the rotation and discharge specified. The fan shall be packaged, completely assembled and ready to install (except ARR.G. 1, which is less motor and drive).

The fan housing and base shall be a heavy gauge hot rolled steel suitable for temperatures up to 300° F., and with modifications up to 800° F. (ARR.G. 10 is standard at 250° F. but is suitable for temperatures up to 600° F., and ARR.G. 4 maximum temperature is 200° F.). The housing and wheels have continuous welds. The wheels shall be hot rolled steel with non-clogging and self-cleaning characteristics. The wheel shall be mounted to the fan shaft with a straight bore, keyway, and setscrews. 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 horsepower, and performance) and are relubricatable for continuous service. They shall have a minimum L10 life of 50,000 hours. The belts shall be oil, heat, and static resistant type oversized 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. The fan performance shall be based on tests conducted in Hartzell's AMCA accredited laboratory and conducted 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 Air Performance Rating Seal.

ACCESSORIES:

- Motors - TEFC standard. 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.
- Vibration Isolators - Rubber-in-shear or spring type available.
- Flanges Inlet/Outlet - Available with or without mounting holes.
- Guards - Provides protection when unit is at a working level. Inlet, outlet and drive/shaft guards are available.
- Weather Cover - Combines guarding of motor and drive as well as providing protection from the weather.
- Spark Resistant Construction - AMCA Types A, B, and C are available.
- Shaft Seals - Standard neoprene (up to 300° F.), ceramic (up to 800° F.) or other mechanical seals are available.

- High Temperature (300° to 800° F.) - Heat slinger and shaft heat deflection plate provides air movement over inboard bearing and reduces heat conduction through shaft. Motor heat shield protects motor from radiated heat from housing on ARR.G. 9 units.
- ARR.G. 1 Sub-Base - Common structural support for ARR.G. 1 fan and motor.
- 9M Sub-Base - Motor sub-base to accommodate larger motor in horizontal position.
- Split Housing - Allows removal of the wheel and shaft without disturbing the fan inlet.
- Coatings - Industrial grade air dry enamel is standard. Hot dipped galvanized, epoxy, inorganic zinc, and catalyzed coal tar epoxy coatings are available upon request.