



SERIES 66 GUIDE SPECIFICATION

BELT DRIVE, ADJUSTABLE PITCH VANEAXIAL FAN

The Belt Drive, Adjustable Pitch Vaneaxial Fan shall be manufactured by Hartzell Air Movement, Series 66. Standard sizes are 35" through 79". The fan shall be a rugged one-piece design containing the propeller, the motor, and the vanes. The fan shall be packaged, completely assembled and ready to install.

The adjustable pitch vaneaxial propeller shall be an airfoil design, 9-bladed, cast of 319 aluminum in compliance with Federal Specification QQ-A-601E and ASTM B26. The individual blades shall be secured to the hub with a lockwasher and nut. The blades can be quickly adjusted for future changes in capacity without removing the propeller from the fan shaft. Propellers shall be retained on the fan shaft utilizing a split taper bushing.

All sizes have rolled steel flanges continuously welded to the steel drum. Fan shafts shall be ground and polished carbon steel. Bearings shall be located in a drive compartment out of the airstream. Bearings shall be heavy duty, roller type. Bearings shall have extended lube tubes and be relubricable for continuous service and have minimum L10 bearing life of 50,000 hours. Belts shall be "V" type, heat, oil and static resistant and sized for continuous service. Motor position shall be designed for mounting in any position from horizontal to vertical. Fixed pitch drives shall be standard.

Fan housings shall be minimum 3/16" thick rolled commercial quality, carbon steel and continuously welded in compliance with AWS D1.1 standard. Standard surface coating system shall be phosphatized surface preparation with industrial grade air dry enamel paint.

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 the latest revision of AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

ACCESSORIES:

- Special Construction - Available in stainless steel, aluminum.
- Protective Coatings - Hot dipped galvanized, Nupon epoxy, inorganic zinc, and catalyzed coal tar epoxy are available upon request.
- Motors - OEDP standard. Explosion proof, high temperature, and other special motors can be furnished upon request.
- Inlet Bell - Minimizes inlet pressure losses, thus optimizing airflow.
- Inlet/Outlet Cone - Available for adapting fans to different size duct diameters.
- Inlet/Outlet Guard - Prevents access to rotating propeller.
- Companion Flanges - Mating flanges for fan.
- Access Door - For inspection for the propeller and motor.
- Mounting Feet - To facilitate floor, ceiling or wall mounting.

- Vibration Isolators (Horizontal or Vertical Mount) - Rubber-in-shear or spring type available.
- Isolator Brackets (Horizontal or Vertical) - Brackets used to mount vibration isolators.
- Sound Muffler - Provides attenuation of excessive noise.
- Lifting Lugs - Provides means to lift and handle fans.
- Extended Electrical Leads - Motor shall be pre-wired with electrical leads extended to a watertight conduit box located on the exterior of the fan housing.