

SERIES 04 GUIDE SPECIFICATION

IN-LINE CENTRIFUGAL FAN

The belt drive In-Line Centrifugal Fan shall be manufactured by Hartzell Air Movement, Series 04. Standard sizes are 12" through 49", ARRG. 1 and 9, Class I, II, or III construction. Wheel type shall be the type BC single thickness airfoil blade (available in sizes 12" through 49") or the type BA double thickness hollow airfoil blade (available in sizes 18" through 49"). The Series 04 fans shall have non-overloading horsepower characteristics. The fan shall be packaged, completely assembled and ready to install.

The fan housing shall be a heavy gauge commercial quality carbon steel suitable for temperatures up to 180° F. The housing and the wheels shall be continuously welded in compliance with AWS D1.1 standard. The wheels shall be commercial quality carbon steel. The wheel shall be mounted to the shaft with a split taper bushing. The motor shall be mounted on a continuously welded motor base supported by four adjustable riser assemblies. Standard surface coating system shall be phosphatized surface preparation with industrial grade air dry enamel paint.

The shaft shall be ground and polished. The fan bearings shall be heavy-duty, self-aligning ball or roller type (depending on the fan size, motor horsepower and performance) and 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 AMCA Standard 210 for air performance and AMCA Standard 300 for sound.

ACCESSORIES:

- Motors - TEFC standard. OEDP and other special motors are available upon request.
- Combination Motor Cover and Belt Guard - Carbon steel with ventilation louvers.
- Belt Guard - Carbon steel, covers belts and motor sheave.
- Safety Guard - Fits on inlet or outlet of the fan.
- Mounting Feet - Use to mount fan on floor, platform, wall or ceiling.
- Vibration Isolators - For horizontal floor mount or ceiling suspension. Available in rubber-in-shear or springs.
- Drain - standard pipe coupling, welded to the housing. Female pipe with threaded plug. Highly recommended for vertical airflow-up application.
- Inlet Damper - Used to control volume. Standard construction is available through 7" S.P. and 3000 FPM.
- Ceiling Suspension - For horizontal mounting sizes 12" to 18" - Use inverted mounting feet. Sizes 22" to 49" - Use horizontal mounting brackets.
- Vertical Mounting Brackets - Four welded brackets or flat panel for floor mounting or ceiling suspension.
- Inlet and Outlet Cones - Fabricated cones for duct transition and or static pressure regain.

- Companion Flanges - Drilled to match the flanges of the fan.
- Inspection Door - For inspection of fan wheel. Bolted and gasketed. A hinged, quick release type also available.
- Spark Resistant Construction - For safely handling fumes and vapors, Hartzell offers three types of spark resistant construction. Type A, B, and C as outlined in AMCA Standards 99-0401-86.