

SERIES 03F GUIDE SPECIFICATION

BACKWARD CURVED CENTRIFUGAL FAN FLANGE MOUNTED TYPE, SINGLE WIDTH

The direct drive Backward Curved Centrifugal Fan, Flange Mounted Type, Single Width shall be manufactured by Hartzell Air Movement, Series 03F, ARRG. 4, Class I, II, or III. . Wheels available are the backward curved (BC, 12" - 30") or the airfoil (BA, 18" - 30"). Rotation, as determined by the drive side of the fan, shall be clockwise or counter-clockwise. Fan shall be field rotatable and the discharge shall be any of the eight AMCA standard positions by rotation of entire fan. Standard sizes are 12 through 30. The fan shall be packaged, completely assembled and ready to install. Fans shall be for use in vertical inlet installation only.

The fan housing and base shall be a heavy gauge commercial quality carbon steel suitable for temperatures up to 200° F. The housing and wheels shall be continuously welded in compliance with AWS D1.1 standard. The wheels shall be commercial quality carbon steel with single thickness airfoil blades and have non-overloading horsepower characteristics. The wheel shall be mounted to the motor shaft with a split taper bushing. Lifting lugs shall be standard, for ease of handling and installation.

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 on 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 for the BC wheel only.

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.
- Outlet Flange - Available with or without mounting holes.
- Guards - Provides protection when unit is at a working level. Inlet and outlet guards are available.
- Weather Cover - Combines guarding of motor as well as providing protection from the weather.
- Spark Resistance Construction - AMCA Types A, B, and C are available.
- Coatings - Standard surface coating system shall be phosphatized surface preparation with industrial grade air dry enamel paint. Hot dipped galvanized, epoxy, inorganic zinc, and catalyzed coal tar epoxy coatings are available upon request.