

Typical Specifications

Model: MPA

Description: Fan shall be a single width, single inlet backward inclined centrifugal airfoil, direct driven modular plenum array as specified.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The inlet panel shall be constructed from heavy gauge reinforced steel with an integral rectangular formed duct connection. Integral lifting points shall be standard. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM.

Coating: Steel fan components shall be galvanized. Aluminum components shall be unfinished.

Wheel: Wheel shall be aluminum, non-overloading, centrifugal backward inclined, high efficiency, airfoil type. Blades on all sizes shall be continuously welded to the back plate and inlet shroud. All sizes shall be attached to the motor shaft using a taper lock bushing. Wheel shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheels will have 9 blades to emphasize greater importance on efficiency and 12 blades to emphasize the need for better sound quality. Wheel shall be balanced in accordance with AMCA Standard 204-05, *Balance Quality and Vibration Levels for Fans*.

Motor: Motor shall be NEMA design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Balance: All fans prior to shipment are run tested at the specified operating speed. Each fan is dynamically balanced as a complete unit in accordance with ANSI/AMCA 204-96 "Balance Quality and Vibration Levels for Fans" to Fan Application Category BV-3, Balance Quality Grade G6.3. Balance readings are taken electronically in the axial, vertical, and horizontal directions. Records of each fan balance are maintained and a written copy is available upon request.

Product: Fan shall be model MPA as provided by Loren Cook Company of Springfield, Missouri.