

Typical Specifications

Model: AI

Description: Fan shall be a tube axial, direct drive, high efficiency cast aluminum airfoil propeller fan. Unit shall be specified as either Level I or II based on design flow and design pressure.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL705) and UL listed for Canada (cUL 705). For smoke control applications, fan shall be listed by Underwriters Laboratories (Power Ventilator for Smoke Control Systems) for US and Canada. Fan shall bear the AMCA certified ratings seal for air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The steel drum shall be continuous welded constructed of minimum 12 gauge steel with integral, pre-punched mounted flanges on both inlet and outlet. The fan shall have welded mounting brackets specified for either vertical or horizontal installation. Motor shall be mounted to rigid motor support welded to unit housing. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA certified transit tested packaging.

Coating: All steel fan components shall be Lorenized™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Propeller: Propeller shall be high efficiency, heavy duty cast aluminum airfoil design with cast aluminum hub. The blade pitch shall be factory set and locked using set screws and roll pin. The hub shall be keyed and locked to the shaft utilizing a taper lock bushing. Propeller shall be balanced in accordance with AMCA Standard 204-05, *Balance Quality and Vibration Levels for Fans*.

Motor: Motor shall be heavy duty totally enclosed type with grease lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure. Motor shall be mounted to rigid motor support welded to unit housing.

Product: Fan shall be the AI as manufactured by Loren Cook Company of Springfield, Missouri.