Typical Specifications

Model: **QMXDLE**

Description: Fan shall be a direct driven, tubular mixed-flow upblast laboratory exhaust blower.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada.

Construction: The fan shall be of welded and bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 14 gauge steel with integral inlet collar for slip fit duct connections. Straightening vanes shall be included to assure maximum efficiency and low noise levels. For motors with grease fittings, extended lube lines shall be furnished for lubrication. Lifting lugs shall be provided for ease of installation. Discharge nozzle shall be provided to efficiently increase discharge velocity to the specified requirement. Discharge nozzle shall have hinged discharge damper to prevent rain infiltration. The damper assembly shall be protected by a continuously welded steel windband of minimum 18 gauge steel with flanges for maximum strength and rigidity. A reinforced curb cap shall allow freestanding installation onto integral members of the roof structure without the use of guy wires. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA certified transit tested packaging.

Coating: All steel fan components shall be coated with an electrostatically applied, baked phenolic epoxy powder coating with an ultraviolet protective top coat. 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.

Wheel: Wheel shall be steel, non-overloading, high efficiency mixed-flow type. Contoured single thickness blades shall incorporate 3-D curvature for maximum efficiency across the entire surface of the blade. Blades shall be continuously welded to the backplate and inlet shroud. Hubs shall be keyed and securely attached to the motor shaft. Wheel shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be TEFC furnished at the specified voltage and phase.

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

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