Typical Specifications

Model: **LXULMO**

Description: The fan shall be a belt driven, upblast propeller roof fan with motor outside of airstream.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA certified ratings seal for sound and air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan shall consist of an upper and lower assembly. The upper assembly shall consist of a base, unit housing, butterfly discharge damper, and a wind band. The base shall have an integral venturi and continuously welded corners. Unit housing shall be minimum 14 gauge steel. Dampers of aluminum or galvanized steel construction. Dampers shall be protected by a continuously welded steel wind band. Wind band shall be a minimum 18 gauge steel with minimum one inch flanges for maximum strength and rigidity. The lower assembly consists of a bolted, minimum 12 gauge galvanized steel die formed angle frame power assembly with minimum 18 gauge galvanized steel outer housing panels fastened to the outer frame. The motor is located out of the airstream and shall be mounted to a minimum 10 gauge galvanized steel adjustable motor plate assembly which shall utilize threaded J-bolts and pivot design for positive belt tensioning. The motor shall be protected by a minimum 18 gauge motor cover. Extended lube lines shall be furnished for lubrication of fan bearings. The fan shall include integral lifting lugs capable of safely supporting the total weight of the fan with motor. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure, and maximum fan RPM. Unit shall be shipped in ISTA certified transit tested packaging.

Coating: All non-galvanized 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 a high-efficiency fabricated steel design with blades securely fastened to a minimum 7 gauge steel hub. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Propeller 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 minimum of class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings: Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. Drives shall be precision machined cast iron type, keyed and securely attached to the fan and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

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