Typical Specifications

Model: **LXUL**

Description: The fan shall be a low profile, belt driven, upblast propeller roof fan.

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 (CSA Standard 113-M1984). 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 motor, bearings and drives shall be mounted on a tubular steel power assembly. The power assembly shall be welded to a minimum 14 gauge steel base. The base shall have an integral venturi and continuously welded curb cap corners. Fan housing shall be minimum 14 gauge steel, bolted to the fan base. Fan shall have butterfly discharge dampers of aluminum or steel construction with a high volume rain gutter to prevent rain infiltration. Dampers shall be protected by a continuously welded steel windband. Windband shall be minimum 18 gauge steel with minimum one inch flanges for maximum strength and rigidity. 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 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 class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings: Bearings shall be cast pillowblock ball type 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 wheel 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 LXUL as manufactured by Loren Cook Company of Springfield, Missouri.