

Typical Specifications

Model: VAB

Description: Fan shall be a fixed pitch, belt driven vane axial 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 (cUL 705). Fan shall bear the AMCA certified ratings seal for sound and air performance.

Construction: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. Housing shall be minimum 12 gauge steel with continuously welded seam. Housing shall incorporate continuously welded, inlet and outlet flanges of minimum 1-1/4" x 1-1/4" x 1/4" and be pre-punched for mounting. Housing shall include nine continuously welded steel discharge vanes and aerodynamically designed belt tunnel. Copper lube lines shall be extended from the bearings to the outside of the housing. Pivoting motor plate shall utilize threaded L-bolt design for positive belt tensioning. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure, and maximum fan RPM.

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 fixed pitch, one piece cast aluminum, 7-blade airfoil design. The propeller shall be attached to the shaft utilizing a taperlock bushing and retaining plate bolted to the shaft. Propeller shall be balanced in accordance with AMCA Standard 204-05, *Balance Quality and Vibration Levels for Fans*, Category BV-3.

Motor: Motor shall be heavy duty type furnished at the specified voltage, phase and enclosure.

Bearings: Construction shall be heavy duty, self-aligning, regreasable ball or roller type in a cast iron housing. Bearing shall be selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed, horsepower, and static pressure.

Fan Shaft: Fan shaft shall be AISI C-1045 hot rolled and accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125% of maximum RPM.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. Drives shall be precision machined cast iron fixed pitch type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower.

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