

Typical Specifications

Model: MHR

Description: Fan shall be a single width, single inlet reinforced radial blade, belt driven industrial material handler.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be Underwriters Laboratories Classified per UL 705 and CSA Certified (Standard 113-M1984).

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 10 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation and shall be field rotatable to any one of eight discharge positions. Housing side panels shall be rigidly reinforced using structural steel to prevent flexing and vibration at high pressures. Bearing support shall be minimum 1/4" welded steel. Lifting lugs shall be provided for ease of installation. 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: 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.

Wheel: Wheel shall be steel, reinforced rim radial blade type. Blades shall be minimum 7 gauge steel continuously welded to the hub, aerodynamic gusset and minimum 10 gauge reinforcing rims. Hubs shall be keyed and securely attached to the fan shaft utilizing four setscrews. Wheel 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.

Blower Shaft: Blower 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.

Bearings: Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and 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 MHR as manufactured by Loren Cook Company of Springfield, Missouri.