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SPECIFYING JUNIOR FANS

GENERAL	PAINT
The fans shall be size single-width single-inlet as designed and manufactured by The New York Blower Company. Fan wheels shall be forward curved in all sizes. Unless otherwise directed, fans shall be in compliance with the layout shown on the drawings.	All fan surfaces are to be thoroughly prepared prior to painting using a combination of washing and hand and power tool cleaning as required. After cleaning, all mild steel surfaces are to be coated with a baked alkyd enamel. Surfaces of bolted components not accessible after assembly shall be coated and baked prior to final assembly. Primer only will not be accepted.
PERFORMANCE Fan ratings shall be based on tests made in accordance with AMCA Standard 210 and licensed to bear the AMCA Certified Ratings Seal for Air Performance. Fans not licensed to bear the AMCA Seal for performance shall be tested, at supplier's expense, in an accredited AMCA laboratory. (Option: Only AMCA certified fans will be accepted.) Fan brake horsepower	BALANCE AND RUN TEST
	All fan wheels shall be dynamically balanced on precision bal- ancers. Prior to shipment, completed fans complete with motors and drives shall receive a final test run at the specified operating speed.
shall be equal to or less than BHP at inches static pressure and CFM at density.	ACCESSORIES
CONSTRUCTION	Accessories shall be provided as in the plans and specifications.
	Required accessories include:
Fan housings are to be heavy gauge, continuously welded steel or cast aluminum construction. Housings with lock seams or partially welded construction are not acceptable. Housing inlet cones when used, shall be aerodynamically designed and spun providing a minimum separation of air flow. Wheel diameters and outlet areas shall be in accordance with the standard	□ AMCAC SRC
	□ Automatic Outlet Shutter
	□ Vibration Isolation Rails - Spring (Belt Drive only) - Rubber-In-Shear
dimensions adopted by AMCA for centrifugal fans. Designs not	□ Inlet Guard
in accordance with AMCA Standard 99-2401 are not acceptable.	□ Outlet Guard
	□ Weather Cover/Belt Guard
BEARINGS	□ Drain
Bearings are to be heavy duty, grease lubricated, precision anti-	□ Heat Fan Construction (Belt Drive only)
friction ball, self-aligning, pillow block design. Bearings shall be designed for a minimum L-10 life of 20,000 hours (100,000 hour	□ V-Belt Drive - Variable Speed - Constant Speed

SHAFT

speed.

Shafts are to be ASTM A-108 steel, grade 1040/1045, precision turned, ground and polished. Grade 1018 steel is not acceptable. The shaft's first critical speed shall be at least 140% of the fan's maximum operating speed. The drive end of the fan shaft shall be counter-sunk for tachometer readings.

L-50 life) when rated at the fan's maximum cataloged operating

FINAL INSPECTION

All fans shall receive a final inspection by a qualified inspector prior to shipment. Inspection to include: fan description and accessories, balance, welding, dimensions, bearings, duct and base connection points, paint finish and overall workmanship.

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Form 607 GAW