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SPECIFYING BELT DRIVE TUBEAXIAL FANS

GENERAL	BALANCE AND RUN TEST
The fans shall be size Tubeaxial as designed and manufactured by The New York Blower Company. Fan wheels shall utilize cast aluminum, airfoil blades in all sizes. Unless other uses directed force shall be in compliance with the level.	All fan wheels shall be precision balanced prior to assembly. Fans complete with motors and drives shall receive a final test balance at the specified operating speed.
other-wise directed, fans shall be in compliance with the layout shown on the drawings.	ACCESSORIES
PERFORMANCE	Accessories shall be provided as called for in the plans and specifications.
Fan ratings shall be based on tests made in accordance with AMCA Standard 210 and licensed to bear the AMCA Certified	Standard accessories include:
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	External Bearing Lubrication FittingsInlet FlangeOutlet Flange
shall be equal to or less than BHP at inches static pressure and CFM at density.	Required accessories include:
SOUND	 Mounting Arrangement - Floor, Roof, Vertical, Duct, Suspended
Fan manufacturers shall provide sound power level ratings for fans tested and rated in accordance with AMCA Standards 300 and 301. Tests shall be performed in an accredited AMCA laboratory. Sound power ratings shall be in decibels (reference 10 ⁻¹² watts) in eight octave bands. Sound power levels will be corrected for installation by the specifying engineerdBA levels only are not acceptable.	Access Door Drain, Drain Plug Inlet Vane Damper Easy Access Construction Outlet Guard Inlet Bell with Guard Belt Guard
CONSTRUCTION	□ Silencer □ Extended Inlet Guard
Fan housings are to be heavy gauge, continuously welded construction. Housings with lock seams or partially welded construction are not acceptable.	 □ Spark Resistant Construction - AMCA B - AMCA C □ Heat Fan Construction - 121°F. to 200°F. □ Shaft Seal - Ceramic Felt - Buna-N - Viton® - Teflon®
BEARINGS	☐ Companion Flange☐ Stack Hood
Bearings are to be heavy duty, precision anti-friction ball or spherical roller, self-aligning, flanged design. Bearings shall be designed for an average L-10 life of 50,000 (250,000 hour L-50 life) when rated at the fan's maximum cataloged operating speed.	 Curb Cap Weather Cover Vibration Isolation - Spring - Rubber-In-Shear V-Belt Drives - Variable Speed - Constant Speed

SHAFT

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 130% of the fan's maximum operating speed. The drive end of the fan shaft shall be counter-sunk for tachometer readings.

PAINT

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 surfaces (except wheel) are to be coated with an industrial grade alkyd enamel. Surfaces of bolted components not accessible after assembly shall be coated and allowed to dry prior to final assembly. Primer only will not be accepted.

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