THE NEW YORK BLOWER COMPANY 7660 Quincy Street Willowbrook, IL 60527-5530

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SPECIFYING SERIES 60 FANS

GENERAL

The fans shall be size single-width single-inlet as designed and manufactured by The New York Blower Company. Fan wheels shall be high pressure radial tip for optimum efficiency and stability. Unless otherwise directed, fans shall be in compliance with the layout shown on the drawings.

PERFORMANCE

Fan ratings shall be based on tests made in accordance with AMCA Standard 210 in an accredited AMCA laboratory. Fans shall have a sharply rising pressure characteristic extending throughout the operating range to assure quiet and stable operation. Fan brake horsepower shall be equal to or less than _ BHP at _____ inches static pressure and _ _____ density.

CFM at

SOUND

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 engineer...dBA levels only are not acceptable.

CONSTRUCTION

Fan housings are to be split and heavy gauge, continuously welded construction with drilled inlet and outlet connections. Housings with lock seams or partially welded construction are not acceptable. Housings are to be reinforced with rigid bracing to increase structural integrity and prevent vibration. Wheel and inlet diameters and outlet areas shall be in accordance with the standard dimensions adopted by AMCA for industrial centrifugal fans. Designs not in accordance with AMCA Standard 99-2402 are not acceptable.

BEARINGS

Bearings on Arrangement 1 and 8 are to be grease lubricated, precision anti-friction ball or spherical roller, self-aligning, pillow block design. Bearings shall be selected for an average minimum L-10 life of 50,000 hours (250,000 hour L-50 life) when rated at the fan's maximum cataloged operating 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. After cleaning, all surfaces are to be coated with an industrial grade two coat system. Surfaces of components not accessible after assembly shall be coated and allowed to dry prior to final assembly. Primer only will not be accepted.

BALANCE AND RUN TEST

Wheels and shafts are to be assembled with an interference fit and dynamically balanced as an assembly on precision balancers. Prior to shipment, completed fans shall receive a final test balance at the specified operating speed.

ACCESSORIES

Accessories shall be provided as called for in the plans and specifications.

Standard accessories include:

Shaft Seal - Ceramic Felt

Required accessories include:

Cleanout Door - Flush Bolted - Raised Bolted Spark-Resistant Construction - AMCA A - AMCA B Drain Drain Plug Shaft Seal -Buna-N - Viton® - Teflon® Silencer Inlet Box Assembly Inlet Box Damper Inlet Venturi Inlet Companion Flange - Fan - Inlet Box Coupling Evase Heat-Fan Construction Outlet Damper Safety Equipment - Belt Guard with Tachometer Opening and Plug - Shaft and Bearing Guard with Extended Bearing Lubrication Fittings - Coupling Guard -Outlet Guard 950X/960X Wheel Unitary Base - Spring - Rubber-In-Shear Constant V-Belt Drive Outlet Companion Flange - Fan - Evase

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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