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fan's maximum operating speed. The drive end of the fan shaft

shall be counter-sunk for tachometer readings.

GUIDE SPEC GS-244 June 2007

SPECIFYING PLUG FANS WITH PLR WHEELS

GENERAL	PAINT
The fans shall be sizesingle-width single-inlet capable of unhoused operation as designed and manufactured by The New York Blower Company. Fan wheels shall utilize non-overloading flat, single thickness blades 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 high pressure chemical wash and hand and power tool cleaning as required. After cleaning, all surfaces are to be coated with an industrial grade, high temperature paint. Surfaces of bolted components not accessible after assembly shall be coated and allowed to dry prior to find assembly. Primer only will not be accepted.
PERFORMANCE	BALANCE AND RUN TEST
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 oper-	All fan wheels shall be dynamically balanced on precision bal ancers. Prior to shipment, all fans shall receive a final test bal ance at the specified operating speed and shall ship full assembled.
ation from wide open to closed off. Fan brake horsepower shall be equal to or less than BHP at inches static	CONFIGURATION/ACCESSORIES
pressure and CFM at density.	Accessories shall be provided as in the plans and specifications.
CONSTRUCTION	Standard accessories include:
	□ Shaft Cooler with Guard
Support structures are to be fully assembled, heavy gauge, welded construction with integral mounting panel. Unassembled	Required configuration/accessories include:
units are not acceptable. Inlet cones shall be aerodynamically	□ 450° F. Construction
designed and spun providing a minimum separation of air flow.	□ 800°F. Uninsulated Construction
Wheel diameters shall be in accordance with the standard dimensions adopted by AMCA for centrifugal fans.	□ 800°F. Insulated Construction
differsions adopted by AMCA for Centifidgal fails.	□ 1000°F. Insulated Construction
BEARINGS	1300°F. Insulated Construction
	 Shaft Extension (to accommodate up to a 6" insulation walfor 800°F./1000°F. models)
Bearings are to be grease lubricated, precision anti-friction, self- aligning, foot mounted pillow block design. Flange mount bear-	□ Shaft/panel Extension (up to a 6" panel thickness fo
ings are not acceptable. Bearings shall be selected for an aver-	800°F./1000° F. models)
age minimum L-10 life of 40,000 hours (200,000 hour L-50 life)	□ AMCA C SRC
when rated at the fan's maximum cataloged operating speed.	Safety Equipment - Belt Guard - Shaft/Bearing Guard
	Ceramic-Felt Shaft SealIntegral-Inlet Cone Mounting Assembly
SHAFT	☐ Housing
Shafts are to be ASTM A-108 steel, grade 1040/1 045, precision	□ Reduced Depth Inlet cone
turned, ground and polished. Grade 1018 steel is not acceptable. The shaft's first critical speed shall be at least 120% of the	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, connection points, paint finish and overall workmanship.

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Form 607 GAW