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GUIDE SPEC GS-655 June 2019

SPECIFYING Arr-9 BELT DRIVE INDUSTRIAL DUCT FANS

GENERAL BALANCE AND RUN TEST The fans shall be size Industrial Duct Fans as designed All fan wheels shall be precision balanced prior to assembly. and manufactured by The New York Blower Company. Fan Fans complete with motors and drives shall receive a final test impeller material is either steel or aluminum and will vary based balance at the specified operating speed. on wheel code selection for all sizes. Unless otherwise directed, **ACCESSORIES** fans shall be in compliance with the layout shown on the drawings. Accessories shall be provided as called for in the plans and specifications. **PERFORMANCE** Standard accessories include: Fan ratings shall be based on tests made in accordance with AMCA Standard 210 and performed in an accredited AMCA **External Bearing Lubrication Fittings** laboratory. Fan brake horsepower shall be equal to or less than Inlet Flange BHP at inches **Outlet Flange** static pressure and CFM at densitv. Access/Inspection Door SOUND Optional accessories include: Fan manufacturers shall provide sound power level ratings for fans tested and rated in accordance with AMCA Standards 300 Mounting Arrangement - Floor, Vertical, Duct, Suspended and 301. Tests shall be performed in an accredited AMCA labo-Drain, Drain Plug ratory. Sound power ratings shall be in decibels (reference 10-12 **Outlet Guard** watts) in eight octave bands. Sound power levels will be cor-Inlet Bell with Guard rected for installation by the specifying engineer...dBA levels Inlet Guard only are not acceptable. Silencer CONSTRUCTION High Moisture Construction – Up to 200°F. Fan housings are to be heavy gauge, continuously welded con-High Temperature Construction – 201°F. to 375°F. struction. Housings with lock seams or partially welded con-High Temp/Moisture Construction – 201°F. to 375°F. struction are not acceptable. Companion Flange **BEARINGS Belt Guard** Weather Cover Bearings are to be standard duty, grease lubricated, concentric

SHAFT

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

lock ball bearing, self-aligning design. Bearings shall be

designed for an average minimum L-10 life of 40,000 hours

(200,000 hour L-50 life) when rated at the fan's maximum

PAINT

All fan surfaces are to be thoroughly prepared prior to painting using a combination of abrasive blast and power tool cleaning as required. After cleaning, all surfaces are to be coated with an industrial grade enamel. Surfaces of bolted components are coated 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.

Vibration Isolation - Spring - Rubber-In-Shear

V-Belt Drives - Constant Speed

Form 619 JLK