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**GUIDE SPEC**  
**GS-264**  
**July 2014**

## **SPECIFYING SERIES 30 GENERAL INDUSTRIAL WITH AH/AM WHEELS**

### **GENERAL**

The fans shall be size \_\_\_\_\_ single-width single-inlet as designed and manufactured by The New York Blower Company. Fan wheels shall utilize flat-radial blades for inherent 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 and licensed to bear the AMCA Certified Rating Seal for Air Performance. Fans not licensed to bear the AMCA Seal for Air Performance shall be tested, at supplier's expense, in an accredited AMCA laboratory. (Option: Only AMCA certified fans will be accepted.) 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 \_\_\_\_\_ CFM at \_\_\_\_\_ density.

### **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<sup>-12</sup> 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 heavy gauge, continuously welded construction. 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 are to be heavy duty, 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 200,000 hours 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 coating with an industrial grade alkyd enamel. 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**

All fan wheels shall be dynamically balanced 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 in the plans and specifications.

Required accessories include:

- Cleanout Door - Quick Opening - Flush Bolted - Raised Bolted
- Spark-Resistant Construction -AMCA A -AMCA B -AMCA C
- Drain
- Drain Plug
- Split Housing (Sizes 40 and Larger)
- Flanged Outlet
- Outlet Companion Flange
- Shaft Seal - Ceramic Felt - Buna-N - Viton® - Teflon®
- Flanged Inlet
- Inlet Companion Flange
- External Inlet-Vane Damper (Sizes 29 and Larger)
- Positive-Screw Adjustment (Arrangement 10)
- Heat-Fan Construction
- Heavy-Duty Slide Rails (Arrangement 9)
- Abrasion-Resistant Construction
- Outlet Damper - Parallel Blade - Opposed Blade
- Safety Equipment - Arrangement 10 Weather Cover/Belt Guard - Belt Guard with Tachometer Opening and Plug - Coupling Guard - Shaft and Bearing Guard with Extended Bearing Lubrication Fittings - Inlet Guard - Outlet Guard
- Unitary Base
- Isolation Bases/Rails - Spring - Rubber-In-Shear
- Drive - Variable V-Belt - Constant V-Belt - Flexible Coupling
- Bell Mouth Inlet
- 950X/960X Wheel
- Special Diameter Construction
- Inlet Box Assembly
- Inlet Box Damper
- Teflon Shaft Hole Closure (Arrangement 10)

### **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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