



THE NEW YORK BLOWER COMPANY
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GUIDE SPEC
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SPECIFYING DIRECT DRIVE VANEAXIAL ADJUSTABLE PITCH (VXAP) FANS

GENERAL

The fans shall be size _____ Vaneaxial Adjustable Pitch (VXAP) with a _____ hub ratio and _____ wheel design as designed and manufactured by The New York Blower Company. Fan wheels shall utilize cast aluminum, adjustable pitch (at rest) airfoil blades in all sizes. 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 performed in an accredited AMCA laboratory. 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^{-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 heavy gauge, continuously welded construction. Housings with lock seams or partially welded construction are not acceptable. Aerodynamically designed straightening vanes are to be integral to the fan housing.

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 are to be coated with an industrial grade 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.

BALANCE AND RUN TEST

All fan wheels shall be precision balanced prior to assembly. Fans complete with motors 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:

- Inlet Flange
- Outlet Flange
- Blade Access Door

Optional accessories include:

- Mounting Arrangement - Floor, Vertical, Duct, Suspended
- Vertical and Suspended available via SPA only
- Drain
- Drain Plug
- Inlet Vane Damper
- Outlet Guard
- Companion Flange
- Vibration Isolation - Spring - Rubber-In-Shear
- All isolation only available via SPA
- Inlet Bell with Guard
- Silencer
- Extended Inlet Guard

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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