

DIVISION 15 - MECHANICAL

Section 15860 - Fans

Introduction

Fan systems including:

SUPPLY, RETURN AND EXHAUST AIR SYSTEMS.

Part 1 - General

- Short coupled, multi-belted fans to utilize companion sheaves in lieu of variable pitched sheaves.
- Provide vibration switch on fan.
- Fan RPM to be 1200 - 1400 (except exhaust fans).
- Max RPM for exhaust fans not to exceed 1800.
- Fans to be tested in accordance with ANSI/ASHRAE STD 51 and ANSI/AMCA STD 210.
- Centrifugal fans handling more than 1,000 CFM shall have backward inclined blades.
- Fans shall be statically and dynamically balanced at the factory.
- Standard Products - use same manufacturer for multiple installations for the same type.
- *Preferred* manufacturers; Greenheck, *Loren* Cook, ILG, Trane.
- Permanently lubricated bearings are not acceptable.
- Bearings shall be heavy duty split pillow block, self-aligning ball bearings with seals and grease nipples, minimum service life of 200,000 hrs.
- Provide drain connection in bottom of fan housing - minimum size 3/4".
- Provide access doors to blower section - minimum size 18" x 18".
- Provide weather-proof package for any fan located outdoors.
- Utility fans serving fume hoods shall have minimum velocity of 3000 f.p.m. at stack discharge.
- Min. height of discharge stack to be 10'.

Part 2 - Products

- Don't use VFDs on forward curved fans.

Part 3 - Execution

- No discussion.

End of Section 15860