

1.0 GENERAL

- A. Fans shall be model AIB Belt Drive Tubeaxial Fans, as manufactured by Continental Fan Manufacturing Inc., of Buffalo, NY, and of the size and capacity as indicated on the drawings and fan schedule.
- B. Fans shall be rated and tested in accordance with ANSI/AMCA Standard 210.
- C. All motors and electrical components shall conform to NEMA standards.

2.0 FAN HOUSING

- A. Fan housing shall be constructed of heavy gauge steel and welded angle ring flanges.
- B. Fan motor base shall be adjustable, and be located on the exterior of the fan housing.
- C. Fan belt tube shall be completely sealed, and shall isolate the bearings from ambient and/or contaminated airstreams.
- D. Fan housing and motor base shall be coated with baked polyester powder coat finish.

3.0 FAN IMPELLER

- A. Axial impeller shall be constructed of spark resistant, die cast aluminum airfoil shaped blades secured to a die cast aluminum hub assembly.
- B. Axial impeller blades shall be of adjustable pitch construction with multiple hub-to-blade arrangements to maximize air performance. Blade pitch angles shall be factory set.
- C. Axial impeller hub shall be designed to incorporate a split taper bushing, and be keyed directly to motor shaft.

4.0 FAN MOTOR AND DRIVE

- A. Motor shall be TEFC industrial duty and conform to NEMA standards.
- B. Motor shall be of voltage, horsepower, RPM and enclosure as indicated on the fan schedule.
- C. Fan sheaves shall be cast iron and appropriately sized and aligned.
- D. Fan belts shall be static conducting, plus oil and heat resistant.
- E. Fan shaft shall be steel, turned, ground and polished.
- F. Fan shaft bearings shall be lubricated, self-aligning ball type in cast iron pillow block mounts with external grease fittings.

5.0 OPTIONAL FAN ACCESSORIES

- A. Where indicated, fan shall be provided with the following optional accessories:
 - Horizontal mounting brackets
 - Vertical mounting brackets
 - Mounting legs
 - Companion flanges
 - Variable pitch sheaves
 - Propeller side guard
 - Motor side guard
 - Inspection door
 - Reverse flow construction
 - AMCA spark resistant construction
 - 304 or 316 stainless steel construction
 - Maximum 375 F construction
 - Explosion proof & special duty motors
 - Motor cover and/or belt guard
 - Baked epoxy powder coat finish, two layers

6.0 FAN TESTING

- A. Axial impeller shall be balanced and mounted in fan assembly.
- B. Fan assembly shall be run and tested prior to shipment.
- C. A test report shall be maintained on file for each individual fan.