

## 1.0 GENERAL

- A. Fans shall be model ABP Belt Drive Panel Fans, as manufactured by Continental Fan Manufacturing Inc., of Buffalo, NY, and of the size, capacity and flow direction 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 welded heavy gauge steel panel and frame.
- B. Fan panel shall have a deep venturi for smooth air entry, and shall be suitable for standard or reverse airflow, as required.
- C. Fan housing and adjustable 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 drive 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:
  - Motor operated shutters
  - Gravity shutters
  - Bird screen for shutters
  - Variable pitch sheaves
  - Motor side guard
  - Propeller side guard
  - Reverse flow construction
  - AMCA spark resistant construction
  - Mounting boot - interior or exterior mount
  - Weather hood complete with bird screen
  - Explosion proof motors
  - Special duty motors
  - 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.