

# APW DIRECT DRIVE PANEL FANS

## PRODUCT SPECIFICATION GUIDE

### 1.0 GENERAL

- A. Fans shall be model APW Direct 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 motor base.
- B. Fan panel shall have a deep venturi for smooth air entry, and shall be suitable for standard or reverse air flow, as required.
- C. 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 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.

### 5.0 OPTIONAL FAN ACCESSORIES

- A. Where indicated, fan shall be provided with the following optional accessories:
  - Mounting boot
  - Gravity shutter
  - Motor operated shutter
  - Reverse flow construction
  - Weather hood
  - Motors
    - Explosion Proof
    - Special Duty
  - AMCA spark resistant construction
  - Bird screen
  - Motor side guard
  - Propeller side guard
  - Special materials and coatings - consult factory

### 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.