



better AIRFLOW by DESIGN™

# UBVL BELT DRIVE UPBLAST ROOF VENTILATORS PRODUCT SPECIFICATION GUIDE

## 1.0 GENERAL

- A. Fans shall be model UBVL Belt Drive Low Silhouette Upblast Roof Ventilators 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 shall be axial flow impeller, roof mount, and belt drive configuration consisting of a wind band damper assembly for vertical discharge and a curb base panel.
- B. Curb base panel shall be of welded heavy gauge steel construction.
- C. Curb base panel shall have a deep venturi for smooth air entry into the impeller.
- D. Fan motor, shaft and bearings support base shall consist of heavy gauge steel welded directly to fan housing.
- E. Curb base panel and motor support structure shall be coated with a baked polyester powder coat finish with a zinc rich primer.
- F. The wind band damper assembly shall be of galvanized construction with butterfly damper blades.
- G. The butterfly damper rods shall turn in nylon bearings.

## 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.

## 5.0 OPTIONAL FAN ACCESSORIES

- A. Where indicated, fan shall be provided with the following optional accessories:
  - Pre-fabricated roof curbs
  - Explosion proof motors
  - Special duty motors
  - Hot dipped galvanized construction for curb base panel and motor support
  - 304 stainless steel construction
  - 316 stainless steel construction
  - Disconnect switches – mounted, or mounted and wired
    - NEMA 3R non-fused safety disconnect switch
    - NEMA 4X non-fused safety disconnect switch
  - Magnetic damper pads for positive closure
  - Baked epoxy powder coat finish, two layers
  - Custom curb base panel to match existing curb
  - Variable pitch sheaves

## 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.