UBV BELT DRIVE UPBLAST ROOF VENTILATORS PRODUCT SPECIFICATION GUIDE

1.0 GENERAL

A. Fans shall be model UBV Belt Drive Standard 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, a tubular fan section and a curb base panel.
B. Curb base panel shall be of welded heavy gauge steel construction
C. Tubular fan section shall be constructed of heavy gauge steel and welded angle ring flanges.
D. Tubular fan section shall be continuously welded to curb base panel to prevent leakage.
E. Fan motor base shall be adjustable, and be located on the exterior of tubular fan section.
F. Tubular fan section shall be complete with a motor cover.
G. Fan belt tube shall be completely sealed, and shall isolate the bearings from ambient and/or contaminated airstreams.
H. Curb base, tubular fan section, motor base and motor cover shall be coated with a baked polyester powder coat finish with a zinc rich primer.
I. The wind band damper assembly shall be of galvanized construction with butterfly damper blades.
J. 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 with external grease fittings.

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 or 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.