



## Universal Fan & Blower Ltd.

### FTAB Tubeaxial Fan

- Fans to be FRP composite construction tube axial fan model **FTAB** as manufactured by **Universal Fan & Blower Ltd.** and shall be fabricated in accordance with ASTM Standard Specification D4167-97 (reapproved 2002) for Fiber Reinforced Plastic Fans & Blowers and CGSB 41-GP-22 Standard for Process Equipment.
- Fan housing shall be of solid FRP composite construction, fabricated by open molded methods using vinyl ester resin and glass veil to be used on all airstream surfaces giving a resin rich liner for optimum chemical resistance. A reinforcing flange shall run the external length of the housing to provide additional strength. The housing shall be flanged at both ends for duct connection and is equipped with an adjustable motor support plate for drive tensioning
- The fan wheel shall be solid FRP composite molded construction and of a true airfoil design to maintain aerodynamic efficiencies. The wheel shall be positively locked onto the shaft by means of a 316ss retaining plate. [Taperlock bushings are not acceptable.]. The wheel shall be balanced statically and dynamically as per ANSI/AMCA Standard 204.96 Balance Quality & Vibration Levels for Fans to grade G 6.3.
- Shafts will be 316ss accurately turned & gauged for accuracy and sized so that the first critical speed is a minimum of 1.35 times the maximum operating speed.
- Shaft Seal shall be Teflon precision cut for a close tolerance fit with the fan shaft, encased within an FRP seal box with encapsulated 316ss fasteners.
- Bearings shall be pillow block design sized to have a minimum life of 50,000 hours based on AFMBA L<sub>10</sub> standard. Bearings shall be equipped with extended lubrication lines with grease fittings on the outside of the fan housing.
- All fasteners to be 316 stainless steel construction.
- The exterior of the fan shall have a grey gel coat finish containing U.V. inhibitor to prevent ultra violet light degradation.
- Prior to shipment all fans shall be mechanically test run and trim balanced to ensure vibration levels are in keeping with ANSI/AMCA Standard 204.96.

*Note: The addition of UFBL Features to the standard fan will amend the specification accordingly*