



Universal Fan & Blower Ltd.

FWED Wall Exhauster

- Fans to be FRP composite construction panel venturi fan model **FWED** 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 panel shall be of solid FRP composite construction, fabricated by open molded methods using corrosion grade resins. A 'C' glass veil will be used on all airstream surfaces giving a resin rich liner for optimum chemical resistance. The square mounting panel will incorporate a solid FRP composite motor support structured to withstand the torque and loads associated with the required motor size.
- 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.]. No exposed fasteners are permitted. 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.
- Fans will have an FRP wall sleeve having an identical resin & glass system as the fan panel and incorporate an FRP gravity shutter and 304ss removable rear safety screen.
- All fasteners must 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.
- All motors shall be severe duty design for airstream service.
- Performances shall be based on tests made in accordance with AMCA Standard 210 and as stated on the fan schedule. Motor horsepower indicated shall be the minimum size acceptable.

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