

# ecoPower®

## Typical Specifications

### Model: EP-600

**Description:** Hybrid turbine ventilator with direct drive via electric commutating motor in head, max normal operating temperature environment 140 degF (60 degC). Turbine head and throat shall be a marine grade aluminum style, capable of roof mounting.

**Operation Modes:** Wind Only, Power Only, Wind + Power

**Standard Finish:** Aluminum mill finish

**Certifications:** Turbine shall be manufactured at an ISO 9001 certified facility. Resistance to Leakage during Rain minimum tested to AS2428.1 of Hurricane Turbine Ventilators. Specific flow rate @ dp=0, 24 CFM/Watt., Sound Level not to exceed 49 dB(A).

**Construction:** The Hybrid turbine shall be of molded and riveted construction utilizing marine grade aluminum corrosion resistant fasteners. The aluminum head and throat components shall be constructed of minimum 5005 marine alloy aluminum, riveted to a rigid aluminum & mild steel support structure. The aluminum base shall have a one inlet. Nameplate shall indicate design size CFM, and maximum fan RPM. Unit shall be shipped in Certified Transit Tested Packaging.

**Turbine Head:** Aluminum 5005 H34. Output rating 845 CFM wind only, 2501 CFM wind + power mode.

**Throat:** Aluminum 5005 H34. Varipitch for use in applications up to 45 degree roof pitch.

**Dome and Skirt:** Aluminum 1200 O.

**Brackets:** Mild Steel (Powder coated)

**Base:** Soft malleable aluminum, square, center raised mount for turbine throat & rain protection. Cyclone & Hurricane strips included.

**Motor:** Motor shall be Hybrid design direct drive electric commutating motor. Input voltage 200-277 VAC single phase, Max current draw 0.47 A, Max running power consumption 116 W. Max operating temperature range 140-158 degF (60-70 degC). Motor Pabst Germany-one design with an input voltage range of 200 to 277V AC and 50/60 Hz.

**Bearings:** Construction shall be precision, permanently lubricated, sealed stainless steel selected for a minimum life in excess of 10 years under normal operating conditions.

**Drive:** Beltless. Direct ECM drive. Motor inside turbine head directly connected to turbine head. No fan blade. No linkage. Motor bearing is bottom turbine bearing.

**Product:** Turbine shall be model eP600 as manufactured by CSR Edmonds, Australia. Available and distributed in USA by Encenx Corporation, 4100 Greenbriar Dr., Ste 150, Stafford, Tx, Tel: 281 313 1933. Fax: 281 313 1938.