

Typical Specifications

Model: ERV 500, 1000

Description: Unit shall be a direct driven energy recovery ventilator.

Certifications: Unit shall be manufactured at an ISO 9001 certified facility. Unit shall be listed by Underwriters Laboratories (UL 1812) and UL listed for Canada (cUL 1812). Unit shall be ARI certified in accordance with the ARI *Air-to Air Energy Recovery Ventilation Equipment Certification Program*. Unit shall bear the AMCA certified ratings seal for air performance.

Construction: The unit shall be of bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel. Duct collars shall be provided as standard. Unit shall be provided with insulated top, side and interior panels utilizing 1" thick, three pound density foil faced insulation, manufactured and tested to meet NFPA 90A and UL 181 requirements. Insulation shall be fastened to the panels with weatherproof adhesive and weld pins. Energy recovery wheel shall be mounted in a slide track for easy inspection and cleaning. Separate blower and motor shall be provided for supply and exhaust airstream for independent system balancing. Blower and motor assemblies shall slide out for easy inspection. Two inch thick, 30 percent efficient pleated filters shall be provided for supply and exhaust airstreams. Entire side panel shall be hinged and removable for single side access to internal components. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA certified transit tested packaging.

Energy Wheel: Wheel shall be a total energy recovery wheel constructed of fluted synthetic fiber-based media impregnated with a non-migrating water selective 4 angstrom molecular sieve desiccant. Wheels with the desiccant applied in a secondary operation will not be accepted. Energy transfer ratings shall be ARI certified in accordance with the ARI *Air-to Air Energy Recovery Ventilation Equipment Certification Program*, based on ARI Standard 1060-2000.

Fan Wheel: Wheel shall be SWSI centrifugal forward curved type, constructed of painted steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, *Balance Quality and Vibration Levels for Fans*.

Motor: Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

Controls and Electrical: All internal electrical components shall be pre-wired for single point power connection. Internal control panel shall be UL listed with hinged access door and interlocking NEMA 3R disconnect switch.

Product: Ventilator shall be model ERV as manufactured by Loren Cook Company of Springfield, Missouri.