

# Model ERSA SPECIFICATIONS

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**CASING/CABINET** - Standard panels are insulated double wall consisting of a 24-gauge galvalume steel solid interior panel and a 20-gauge galvalume steel exterior panel enclosing 1.5 pcf fiber glass insulation with a R factor of 3.7. Panel thickness shall be 1". Panels are all removable. Access panels have latches and handles. The cabinet is supported by a galvalume steel curb cap base with holes for lifting and rigging.

Cabinet is divided into two separate airstreams with four air openings - outside air inlet to supply air outlet and return air inlet to exhaust air outlet. Outside air inlet and exhaust air outlet are horizontal openings. Supply air outlet and return air inlet are horizontal openings with duct flanges (optional factory-installed vertical supply and/or return air openings) (optional field kit is available to convert horizontal supply and/or return air openings to vertical).

**ENERGY RECOVERY WHEEL** - The UL recognized energy recovery wheel is constructed of a corrugated synthetic fiber-based media impregnated (as compared to coated, bonded or synthesized) with a non-migrating water selective, 4 Angstrom molecular sieve desiccant and mounted on a frame of evenly spaced galvanized steel spokes. The wheel matrix (total mass) provides for sensible energy (temperature) exchange, while the impregnated molecular sieve desiccant material provides for moisture exchange.

The wheel is banded with galvanized steel and has an aluminum center hub. Wheel bearings have a life of 100,000+ hours. The unitary wheel construction maximizes face flatness and wheel life.

The wheel is mounted in a cassette that can be easily removed for maintenance or service.

**WHEEL MOTOR** - Open, dripproof motor controls the revolution of the wheel. A non-adjustable belt drive provides for proper wheel speed for optimum energy transfer.

**BLOWERS** - Both airstreams have a centrifugal Class I blower with permanently lubricated ball bearings. Blowers have adjustable belt drives.

**BLOWER MOTORS** - Model Size 3 has two motors (open dripproof -- 1/4 and 1/3 HP with starters; 1/2 - 2 HP with contactors or energy efficient 2 HP with starters); Size 4 has two motors (open dripproof -- 1/2 - 2 HP with contactors; 3 HP with starters or energy efficient 3 HP with starters); and Size 5 has two motors (open dripproof -- 1-1/2 - 2 HP with contactors; 3 and 5 HP with starters or energy efficient 5 HP with starters). Optional starters are available for motors with contactors.

**FILTERS** - Air filters shall be 2" thick, pleated, disposable type. Each filter shall consist of a nonwoven cotton and synthetic fabric media, media support grid and enclosing frame. The filter media shall have an average efficiency of 25 - 30% on ASHRAE Test Standard 52-76. It shall have an average arrestance of 90 - 92% in accordance with that test standard. The filter shall be listed by Underwriter's Laboratories as Class 2. Filters shall be mounted in V-bank galvalume steel channels with access through a side panel.

**ELECTRICAL** - Unit will require a 208, 230 or 460 volt 3 phase 60 cycle power connection. Includes a non-fused disconnect, individual blower motor capacitor or starter, and control power transformer.

**OPTIONAL INLET AND EXHAUST HOODS** - Both hoods are screened and weather resistant; the inlet hood has louvers. Inlet and exhaust hoods are shipped loose for field assembly and installation.

**OPTIONAL ELECTRIC PRE-HEATER FOR FROST PREVENTION** - Electric heater is available in 10, 20, 30, or 40 kw with automatic temperature control (field-adjustable -30° to 100°F) and includes a safety airflow proving switch. The pre-heater cabinet is factory assembled for field installation.

**OPTIONAL ROOF CURB** - 16" roof curb shipped separately for field installation.