

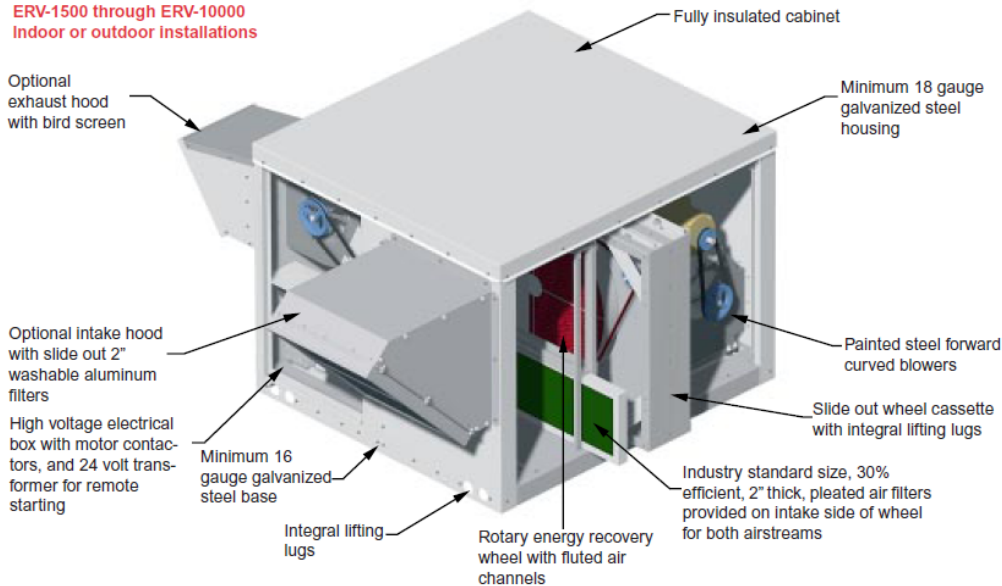


LOREN COOK

Energy Recovery Ventilators

Belt Drive

ERV-1500 through ERV-10000
Indoor or outdoor installations



Belt Drive Features

- 8 available sizes
- 500 to 10,000 CFM
- Configurations include vertical supply and return, horizontal supply and return, combination of horizontal supply and vertical return.
- Indoor or outdoor mounting
- Available accessories and options include
 - Roof curbs
 - Duct flanges
 - Tiered weather hoods
 - Powder Coated Exterior
 - Variety of dampers

Standard Belt Drive Construction

- **Energy Recovery Wheel** — Wheel media is constructed of a unique fluted synthetic fiber-based media impregnated with a non-migrating water selective 4 angstrom (Å) molecular sieve desiccant (typical flute size is 6 mils).
- **Energy Recovery Cassette** — The cassette assembly consists of an energy recovery wheel, drive motor, and drive components which include pulleys, belts and bearings. The cassette assembly slides out for easy access.
- **Supply and Exhaust Blower Assemblies** — All blowers are centrifugal forward curved type with painted steel housings.
- The wheels are balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.
- **Cabinet** — The cabinet is constructed of minimum 18 gauge galvanized steel panels bolted to a minimum 16 gauge galvanized steel base. The entire cabinet is insulated with 1" thick, 3 lb. density, foil faced insulation. A hinged door is provided for access to the electrical control panel. Removable doors are provided for access to all other internal components.
- **Filters** — Filters are furnished in both the supply and exhaust airstreams. Standard 2" thick, 30 percent efficient pleated filters are utilized to maintain the efficiency of the energy recovery wheel. Air performance data includes the initial pressure drop of the air filters.
- **Certifications** — Energy transfer ratings are ARI certified in accordance with the ARI Air-to- Air Energy Recovery Ventilation Equipment Certification Program, based on ARI Standard 1060-2000 and ASHRAE 84-1991. Air performance is assured through compliance with the AMCA Certified Ratings Program. All Cook ERV units are UL and cUL listed.
- **Coils** — Available with Hydronic, Electric or DX coils for heating & Cooling applications, eliminating the need for separate HVAC equipment.

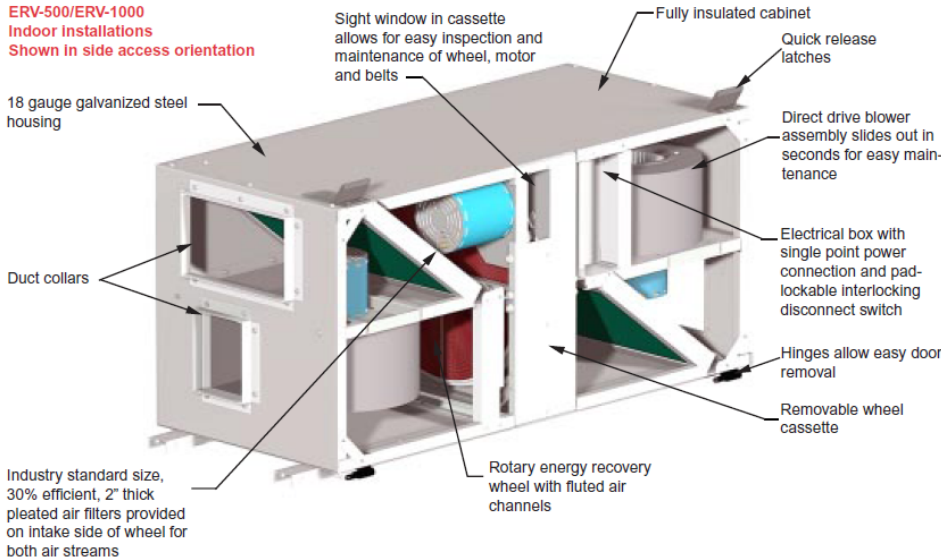
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Direct Drive

ERV-500/ERV-1000
Indoor Installations
Shown in side access orientation



Direct Drive Features

- 2 Sizes
- 450 to 1,150 CFM
- Designed for indoor use in a horizontal configuration
- Available accessories and options include
 - Low profile, bottom access configuration
 - Speed controller
 - Electric Preheat
 - Dirty Filter Sensors
 - Rotation Sensors
- Frost Control
- Purge Sections
- Many other options

Control and Accessory Options

STANDARD FEATURES

System Monitoring

- Integrated six line graphic LCD display
- Keypad for on-site modification of configuration and set points
- Standard with ModBus® communication for remote control monitoring
- Standard sensors for Supply Air (SA) and Outside Air (OA) temperature
- Temperature sensor for Outside Air After Wheel (OAAW) (Included on units with heating and cooling coils)
- Occupied / Unoccupied status indicator
- Heat / Cool mode indicator

Time Clock / Calendar Features

- Define Occupied / Unoccupied Times
- Define Holiday Schedules

Cooling Coil Control

- Digital control of single or two stage compressors
- Time delay on compressor restarts and stage changes
- Analog control of chilled water valves (Water valves are included to ensure compatibility)

Heating Coil Control

- Multi-step or variable (SCR) control of electric heat
- Analog control of hot water valves (Water valves are included to ensure compatibility)

Summer / Winter Changeover

- Automatic changeover based on outdoor conditions
- Economizer Mode (Enabled based upon free cooling set points)

OPTIONAL FEATURES

Additional Communication Protocols

- LonWorks™ communication
- BACnet® communication

Sensors

- Temperature Sensors:
 - Return Air (RA)
 - Exhaust Air After Wheel (EAAW)
 - Outside Air After Cooling Coil (OAACC)
- Humidity Sensors:
 - Outdoor Air
 - Room Air
- Supply Motor Current Sensor
- Exhaust Motor Current Sensor
- Rotation Sensor
- Dirty Filter Sensor
- Clogged Wheel Sensor
- CO2 Sensor
- Remote Interface Panel
- Thermostat
- Humidistat



The optional microprocessor control offers a multitude of new features and enhancements

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