

REZNOR®



Energy Recovery
Wheel used in
Model ERSA is
ARI Certified



REZNOR® ENERGY RECOVERY PRECONDITIONER MODEL ERSA

Basic design in three sizes Pre-engineered and pre-designed to apply to many applications. Takes the guesswork out of energy recovery.

Double wall insulated cabinet Creates fiber free interior eliminating insulation fibers from contacting the circulating airstream while making the cabinet easier to clean. Insulated to prevent condensation or heat transfer through cabinet.

Removable panels Easy access to all serviceable components, filters, blower and energy wheel.

Horizontal or vertical supply and return Can be field converted with simple kit that does not require cutting metal.

208, 230 and 460 volt in one unit Easy field conversion to desired voltage.

Optional energy efficient motors that are EPACT compliant. Standard motors are not affected by EPACT. Code compliance with future regulations and energy savings for the end user.

Centrifugal blowers with adjustable drive. Supply and exhaust blowers can be adjusted for proper airflow to match application requirements and air flow across each wheel section.

Disconnect switch Provided with unit to meet code requirements.

2" pleated filters on both supply and exhaust Filtering both airstreams insures better quality air into space, retards clogging of the wheel, increases wheel efficiency and reduces service and cleaning.

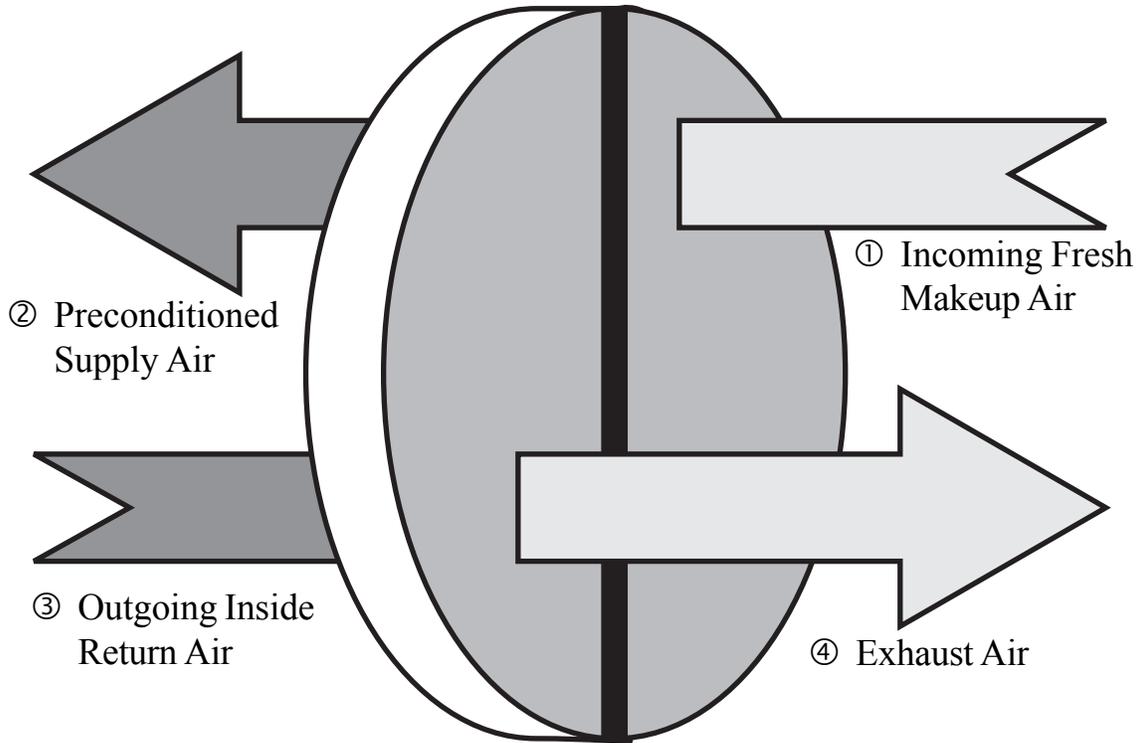
ARI CERTIFIED and UL RECOGNIZED ENERGY RECOVERY WHEEL

- **Total Energy Wheel** Transfers both latent (moisture) and sensible heat.
- **Desiccant impregnated wheel. Proven desiccant from one of the largest chemical manufactures in the world.** Desiccant is *not coated* on wheel, rather bound into material. This improves wheel performance, as the desiccant does not "come off" with cleaning or operation. Desiccant is uniformly and permanently dispersed through matrix for long lasting performance.
- **Fiber based matrix material that is wound and bonded to prevent separation.** Allows impregnated desiccant and provides the highest heat transfer. Permanent bonding insures air maintains contact with matrix and does not "bypass" due to separation of layers.

REZNOR® Brand Your assurance of solid design, dependable quality and the best distributor network in the country.

Approvals. Model ERSA is ETL tested to the Standard for Heating and Cooling Equipment, 2nd Edition, UL-1995 and CAN/CSA C22.2 No. 236.

AIR FLOW ARRANGEMENT



- ① **Fresh Makeup Air Pulled from Outside to Provide Ventilation to the Building** - Compared to air in the building, outside air is cooler and dryer in winter and warmer and more moist in summer; the ERSA unit greatly reduces those differences before the makeup air reaches the HVAC system.
- ② **Preconditioned Supply Air to be Ducted to the HVAC System** - When the HVAC system is in the heating mode, the preconditioned makeup air entering the system is warmer and more moist than direct outside air; in the cooling mode, the preconditioned makeup air is cooler and dryer than direct outside air.
- ③ **Air from Building (return air) to be Exhausted Outside** - When the HVAC system is in the heating mode, the energy recovery wheel “recovers” the heat and humidity in the return air by transferring it to the incoming air; when in the cooling mode, the wheel transfers the unwanted heat and humidity from the incoming air to the airstream being exhausted to the outdoors.
- ④ **The Return Air from Inside the Building is Exhausted to the Outdoors** - In winter the return air “gives up” its energy to the energy recovery wheel; in summer the return air “picks up” heat and humidity from the wheel.

Model ERSA				3			4			5		
CFM Range				850 - 2,500			2,000 - 4,000			3,500 - 6,500		
Total Unit Amps	208/3	230/3	460/3	13.0	12.6	9.3	14.9	14.0	10.0	19.4	19.2	12.6
Motor Horsepower (2)				2			3			5		
Blower Size (2)				10 x 10			15 x 11			15 x 15		
Energy Recovery Wheel Diameter				36"			42"			54"		
Energy Recovery Wheel Face Area (per airstream)				3.535 sq. ft.			4.811 sq. ft.			7.952 sq. ft.		
Pleated Filter - Quantity and Sizes				(6) 16 x 20 x 2"			(6) 20 x 25 x 2"			(16) 16 x 20 x 2"		
Approximate Net Wt. (lbs.)				809			948			1,178		
Approximate Shipping Wt. (lbs.)				909			1,048			1,278		