aeri™ BY RENEWAIRE

RenewAire® Energy Recovery Ventilation

SINGLE/MULTI-FAMILY ERVs

AERI™ MT

- 35–255 CFM, top port configuration
- Five smart constant volume airflow setpoints
- Durable and lightweight case
- Snap-N-Go™ duct connections
- User-set high and low speeds
- Plug-in line cord
- MERV 8 or MERV 13 filters

HVI® 2100 CERTIFIED

c UL us LISTED

VENTILATION SOLUTIONS FOR EVERY APPLICATION

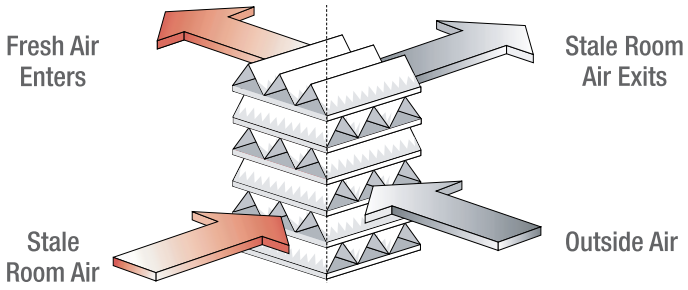
AERI™ SERIES: SINGLE/MULTI-FAMILY ERVs

BALANCED VENTILATION & HIGHEST-QUALITY INDOOR AIR

As buildings get tighter to seal weather out, they seal in contaminants, causing a reduction in indoor air quality (IAQ). Typical contaminants include off-gassing from carpeting, furniture and building materials, excess humidity and mold, odors, cooking and cleaning fumes, CO2, hair and fibers, to name a few. Deficient IAQ is a threat since it can harm occupant health and cognitive function, damage structures, and hurt the bottom line. It's especially concerning since **people spend about 90% of their time indoors, and indoor air can be two to five times more polluted than outdoor air**.[1]

The solution to pollution is dilution achieved via increased and balanced ventilation, which can be done energy-efficiently, cost-effectively, and sustainably with RenewAire's energy recovery ventilation.

AIRSTREAMS DO NOT MIX AND POLLUTANTS ARE NOT TRANSFERRED ACROSS PARTITION PLATES



INCREASED VENTILATION VIA ERVs = BETTER HEALTH + LOWER BILLS

The American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 62.2 committee has established a residential ventilation standard, known as *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*. The goal of this standard and its continuous revisions are to not only **evaluate and recommend every building's minimum ventilation needs**, but also emphasize IAQ and its relationship with occupant health. **ERVs can reduce energy costs while meeting this standard.**

See the chart below to calculate the minimum ventilation required for your home: .03 x sq. ft. + 7.5(bedroom +1). For example, a 2,500 sq. ft. home with 4 bedrooms requires a minimum of 113 CFM.

MINIMUM VENTILATION AIRFLOW REQUIRED BY HOME SIZE*

SQUARE FEET	<500'	501'–1000'	1001'–1500'	1501'–2000'	2001'–2500'	2501'–3000'	3001'–3500'	3501'–4000'
1 BEDROOM	30	45	60	75	90	105	120	135
2 BEDROOMS	38	53	68	83	98	113	128	143
3 BEDROOMS	45	60	75	90	105	120	135	150
4 BEDROOMS	53	68	83	98	113	128	143	158
5 BEDROOMS	60	75	90	105	120	135	150	165

* Infiltration credit not considered, please contact RenewAire to assist in selecting a unit that is best suited for your home.

RENEWAIRE CORE TECHNOLOGY

CERTIFICATION
- Commercial Units: Certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) for an industry-leading, low-to-zero Exhaust Air Transfer Ratio (EATR) at typical static pressure differential
- Residential Units: Certified by the Home Ventilating Institute (HVI) against standard CAN/CSA-C439-18 for an industry leading CFM/watt and energy transfer effectiveness
- Superior core flammability performance; passes UL-723 and UL-1812

MAINTENANCE
- RenewAire cores are easy to clean without removing them from the unit, and they never require washing

INNOVATIVE CONSTRUCTION
- Core exchanger material is cellulosic-based and doesn't contain or use halogenated flame retardants or PVCs
- Manufactured with an EPP cabinet for structure and insulation

RELIABILITY
- An industry-leading 10-year structural and performance warranty for the static-plate core, two-year warranty for commercial products, and five-year warranty for residential products

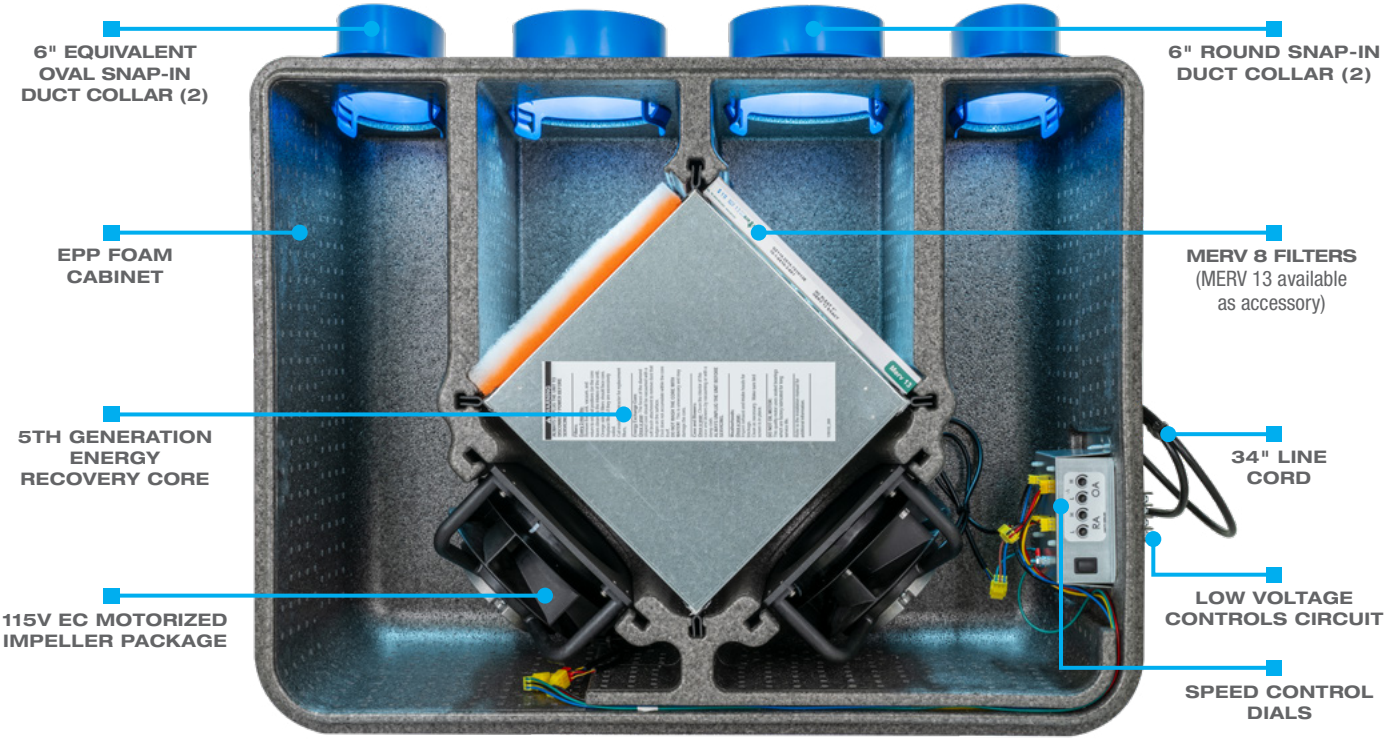
EXCEPTIONAL PERFORMANCE
- Moderates heat and humidity via total energy recovery to maintain a comfortable indoor environment
- No need for frost protection or condensate pans
- Laminar airflow ensures that particulates do not accumulate in the core

REDUCED COSTS
- Optimized energy efficiency via core energy transfer decreases ventilation energy requirements, which can result in smaller air conditioning and heating needs

[1] "Why Indoor Air Quality Is Important to Schools," U.S. Environmental Protection Agency (EPA), https://bit.ly/2SoyRJc.

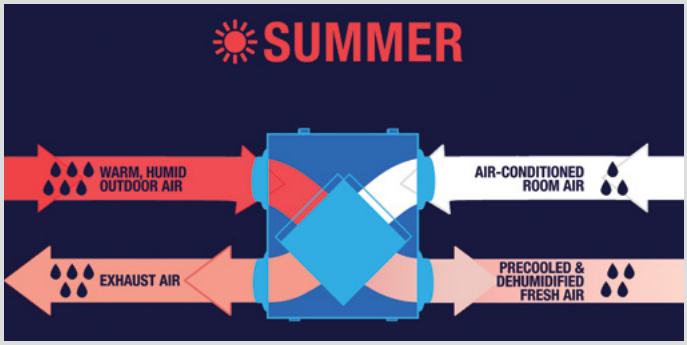
AERI™ OVERVIEW

Created for faster and easier installations, our Aeri energy recovery ventilators (ERVs) have a top port design, lightweight EPP foam cabinet, and Snap-N-Go™ duct collars. Aeri ERVs also have five smart constant volume airflow setpoints that automatically keep the unit running at the set CFM even as filters start clogging or duct pressures fluctuate with the cycling of the central air handling unit. Ideal for single-family and multi-family homes, Aeri ERVs incorporate high-efficiency EC motorized impellers and independent, user-set low and high speeds to maximize comfort and IAQ.

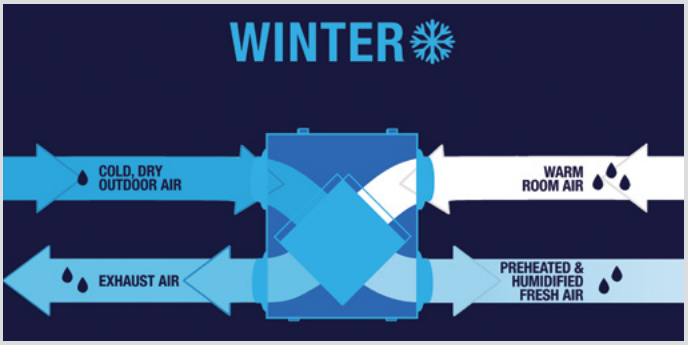


RENEWAIRE ERVs TEMPER THE AIR

Our ERVs moderate the extremes of outdoor supply-air temperature and humidity year-round, providing a sustainable ventilation solution for every climate.



IN SUMMER, THE WARM, HUMID OUTSIDE AIR IS PRECOOLED AND DEHUMIDIFIED BY THE OUTGOING COOL INTERIOR AIR



IN WINTER, THE COLD, DRY OUTSIDE AIR IS PREHEATED AND HUMIDIFIED BY THE OUTGOING WARM INTERIOR AIR

PATENT PENDING

The innovative design and features of the Aeri MT model has led to multiple patent pending applications.

AERI™ MT

MODEL NUMBER	ET-255MF-P340-XC0
POWER SUPPLY	Line Cord
AIRFLOW RANGE (DIAL-A-FLOW)	35–255 CFM
SMART CONSTANT VOLUME AIRFLOWS	35, 70, 110, 150, 190 CFM*
SPEEDS	Low (Continuous), High (Intermittent)
EC MOTORIZED IMPELLERS	Yes
INDEPENDENT VARIABLE SPEED WITH BOOST-MODE**	Yes
DUCT CONNECTION	Top Port Snap-N-Go 6" Round and Oval Collars
SWAPPABLE AIRSTREAMS	Yes
WIDTH	32 5/8"
HEIGHT	26 1/2"
DEPTH	13 3/4"
WEIGHT	25 lbs.
MOUNT	Wall Mounting or Ceiling Hanging (Vertical Orientation)
FILTER	MERV 8, MERV 13 (Supply Outside Air Only for MERV 13)
CORE WARRANTY	10-Year
UNIT WARRANTY	5-Year
FAN EFFICIENCY	2.10 CFM/W at 78 CFM (0.2" ESP)
EXAMPLE RATINGS***	73% SRE at 78 CFM****
CERTIFICATIONS	HVI CERTIFIED / c UL us LISTED (For Residential Use Only)

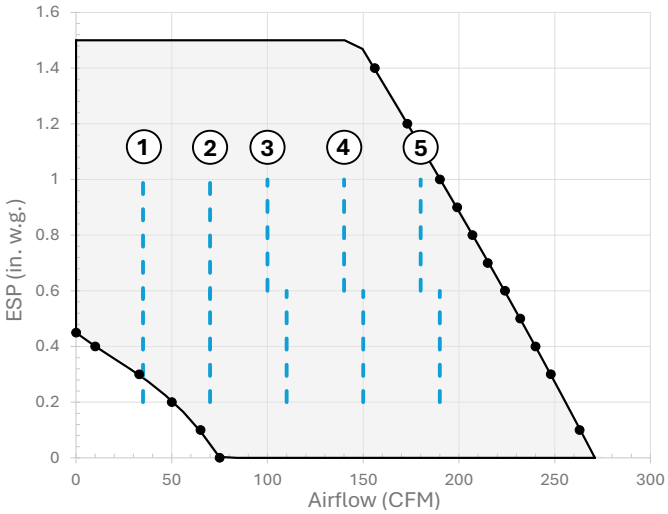
* Within 0.2" to 0.6" ESP.

** Boost-mode: Maximum airflow achievable in boost-mode when continuous airflow setpoint is below max rating.

*** For all rating points, refer to the HVI website certified products directory.

**** HVI rating point at 32°F.

OPERATING AIRFLOWS



● = Actual tested sample points

| = Operating curves, airflow is held constant as static pressure varies

¦ = Nominal constant volume airflow setpoints

AERI™ ACCESSORIES

FILTERS

MERV 13 Filters OA Airstream

LOUVERS

6", 8" White or Brown

CONTROLS

BACnet Fan Control

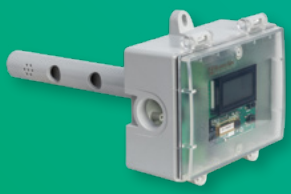
CONTROLS

Percentage Timer (PTL)

Percentage Timer with Furnace Interlock (FM)

Push-Button, Point-of-Use Timer (PBL)

Push-Button, Boost Timer (PBT)



CO2 Sensor Duct Mount

IAQ Sensor Duct Mount

CO2 Sensor Wall Mount

IAQ Sensor Wall Mount

Occupancy Sensor Wall Mount

Occupancy Sensor Ceiling Mount

Digital Time Clock Wall Mount

Digital Time Clock Exterior Enclosure

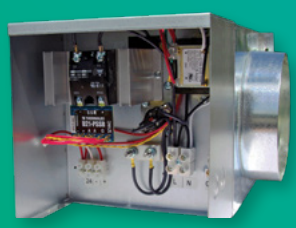
DAMPERS

Automatic Balancing Valve 4", 5", 6"

Backdraft Damper

Motorized Damper 6"

HEATERS



RH Series Electric Duct Heater 1kW to 8kW

INSTALLATION, CONTROLS & MAINTENANCE

INSTALLATION

MOUNTING

- Install the included unit bracket/cleat to back of unit (for ceiling mounted units, install brackets to each side of the unit)
- Install the wall bracket/cleat to desired location on a wall (for ceiling mounted units, install support chains, S-hooks from desired support points—not included)
- Lift the unit up and place down onto the corresponding cleat (for ceiling mounted units, raise the unit and slip on to the S-hooks)
- Unit has a flat bottom so a secure installation to a flat surface such as a shelf or floor is also possible

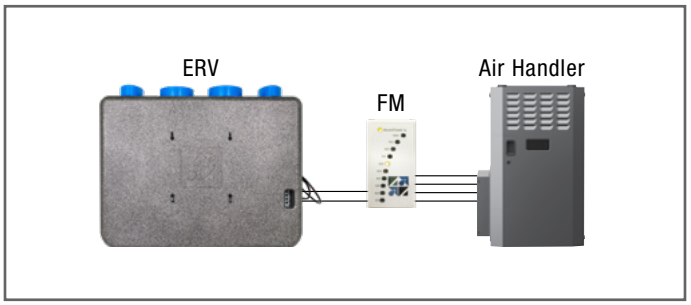
SNAP-N-GO™ DUCT COLLARS

- Attach the ducts to the loose collars first
- Snap the collars into the unit to lock into place

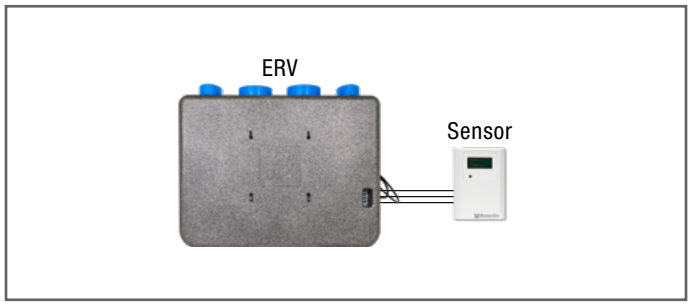
FAST COMMISSIONING AND BALANCING

- Fans dynamically adjust airflow in real time to deliver selected airflows, regardless of fluctuating duct pressure or filter condition
- Turn the dial for both the low and high speeds for each airstream to the desired smart constant volume airflow set point
- Dial-A-Flow balancing for flexible manual setpoints within the entire operating range

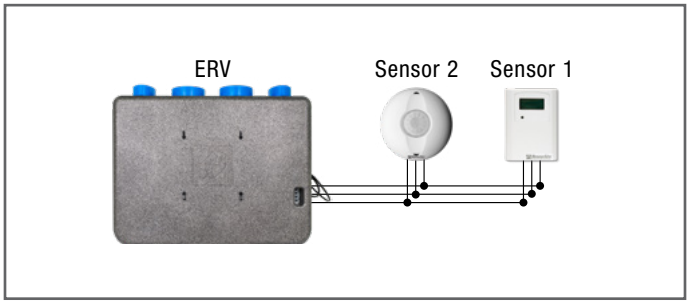
CONTROL STRATEGIES



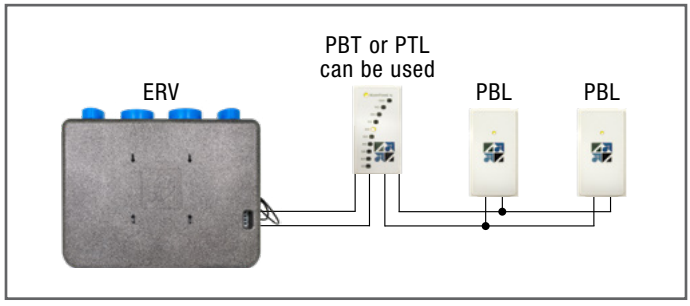
INTERLOCK WITH AIR HANDLER



SINGLE CONTROL



PLE CONTROLS



BOOST MODE (PBT) OR % OF HOUR (PTL) CONTROL WITH TIMERS (PBL)

MAINTENANCE

Disposable filters should be checked and replaced as needed. Additionally, once a year, vacuum the four core faces using a soft brush. The RenewAire core does not need to be washed, as particulates do not accumulate in the core.

Soler&Palau Ventilation Group

Member of the S&P Group Family of Brands

RenewAire® Energy Recovery Ventilation

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