RenewAire®
Energy Recovery Ventilation

SL SERIES ERVs

LOW-PROFILE: SINGLE/MULTI-FAMILY, LIGHT COMMERCIAL

- 30–130 CFM, four-duct configuration
- Low-profile, commercial-grade appliance, often used for multi-family units
- EC motors, variable speed with boost-mode, Dial-A-Flow Easy Balancing, plug-in and hard wired power available
- MERV 13 filter accessory

2100 HVI CERTIFIED

Intertek

VENTILATION SOLUTIONS FOR EVERY APPLICATION

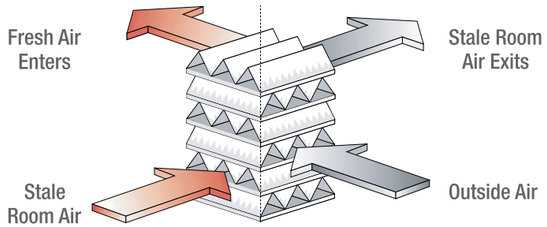
SL SERIES LOW-PROFILE: SINGLE/MULTI-FAMILY, LIGHT COMMERCIAL ERV

BALANCED VENTILATION & HIGHEST-QUALITY INDOOR AIR

As new **buildings get tighter to seal weather out, they seal in contaminants**, causing deficient indoor air quality (IAQ). Since people spend, on average, 90% of their time indoors[1], and **indoor air can be two to five times—and up to 100 times—more polluted** than outdoor air[2], indoor air quality has very real impacts on health and cognitive function.

Our SL Series ERVs can improve indoor air quality by removing contaminants, such as off-gassing from carpeting, furniture and building materials, excess humidity and mold. Our technology takes stale indoor air and replaces it with fresh, conditioned and filtered outdoor air.

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



BETTER HEALTH + LOWER BILLS = INCREASED VENTILATION VIA ERVs

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 indoor air quality and its relationship with occupant health. **ERVs reduce energy costs while meeting the standard.**

See the chart below to calculate minimum ventilation required for your home: .03 x sq. ft. + 7.5(bedroom +1). For example, a 2,200 sq. ft. home with 4 bedrooms requires a minimum of 104 CFM.

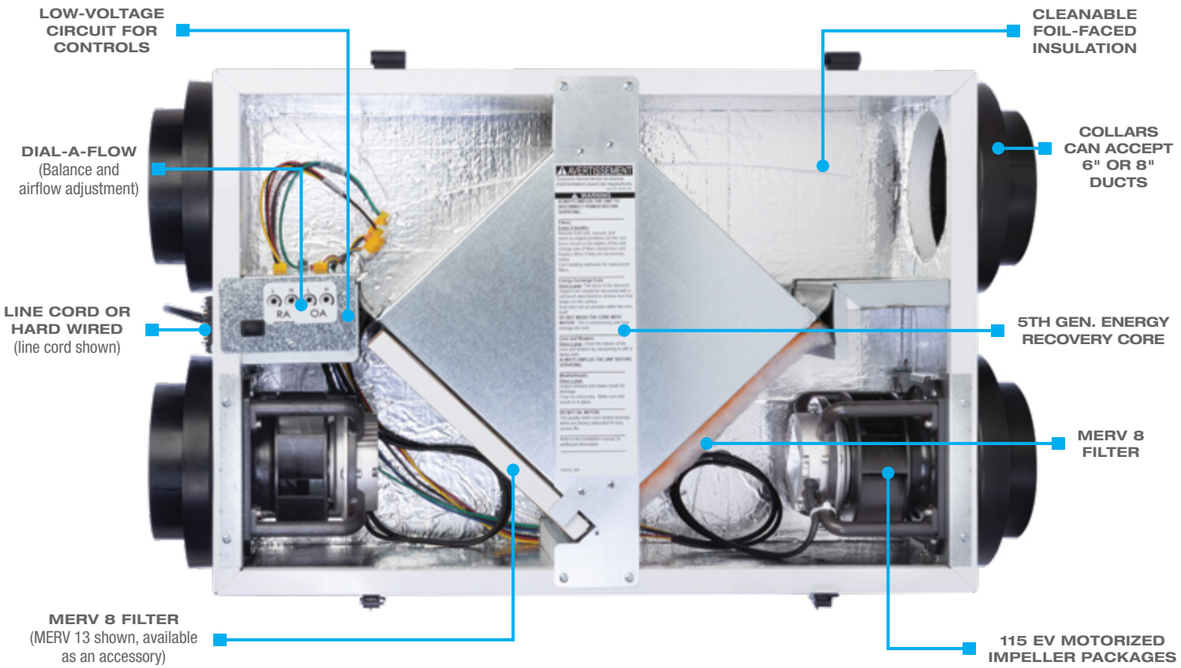
MINIMUM VENTILATION AIRFLOW REQUIRED BY HOME SIZE

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.

SL SERIES

In response to growing demand for smaller and more flexible units, RenewAire offers the slimline SL Series ERVs. The ETL Listed and HVI-Certified **SL Series is compact**, fits into tight spaces and incorporates high-efficiency EC-motor fans to meet strict California energy codes. These ERVs have Dial-A-Flow controllers that allows users to set airflow for maximizing comfort. In addition, they also have boost-mode capabilities for on demand greater airflows and with MERV 13 filters as an accessory to further enhance IAQ. These ERVs are perfect for **high-rise condos, apartments, townhouses, residential homes, compartmentalized commercial spaces with minimal bulkhead and ceiling space, and Passive House**.



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 (except BR 70)
- 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 a galvanized steel frame

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

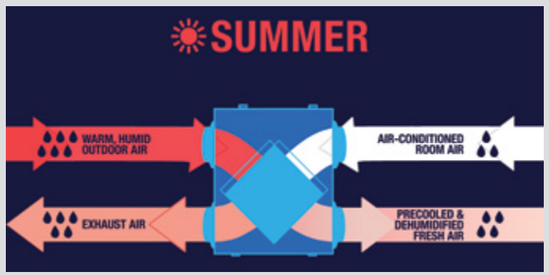
- Moderates heat and humidity via total energy recovery to maintain a comfortable indoor environment
- No need for frost protection or condensate pans
- Laminar airflow ensures that particulates do not accumulate in the core

REDUCED COSTS

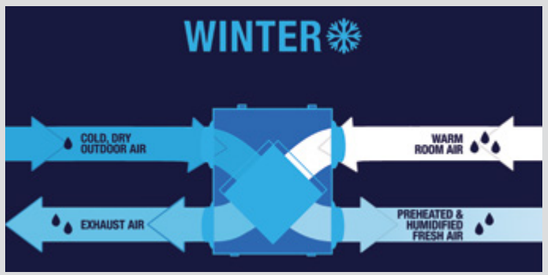
- Optimized energy efficiency via core energy transfer decreases ventilation energy requirements, which can result in smaller air conditioning and heating needs

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

[1] "Indoor Air Pollution: Introduction for Health Professionals," U.S. Consumer Product Safety Commission, https://bit.ly/2Yk0czT.

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

APPLICATIONS

Available in two models, SL75 and SL75H, the SL Series is a low-profile ERV capable of fitting in bulkheads and drop-down ceilings. The SL Series ERVs can be **installed vertically, horizontally or at any angle** to suit site restrictions. This makes the SL Series perfect for applications that have restrictive pace for installation.

SL75

SL75H

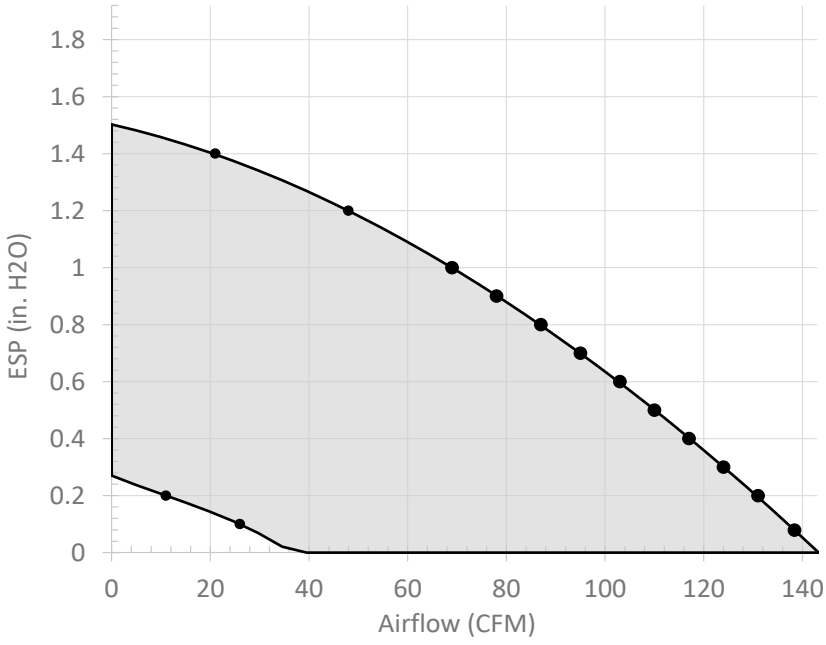
POWER SUPPLY	Line cord	Hard wired*
AIRFLOW RANGE	30-130 CFM	
INDEPENDENT VARIABLE SPEED WITH BOOST-MODE	Yes**	
LENGTH	30 3/4"	30 3/4"
WIDTH	9 1/2"	9 1/2"
HEIGHT	20 3/8"	20 3/8"
WEIGHT	35 lbs.	
MOUNT	Ceiling Bracket or Hanging Chain	
EC MOTOR	Yes	
FILTER	MERV 8, MERV 13 (supply outside air only for MERV 13)	
CORE WARRANTY	10-year	
UNIT WARRANTY	5-year	
FAN EFFICIENCY	1.67 CFM/watt at 50 CFM	
EXAMPLE RATINGS* **	78% SRE at 51 CFM****	78% SRE at 51 CFM****
CERTIFICATIONS	HVI CERTIFIED, Intertek	

*Electrical power to be hard-wired in field by contractor.

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

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

****HVI rating point at 32°F.



● = Actual tested sample points

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

ACCESSORIES

FILTERS

MERV 13 Filters OA Airstream

MOUNTS

Wall-Bracket Kit

LOUVERS & WALL VENTS

6", 8" White or Brown

NEW Concentric Vent

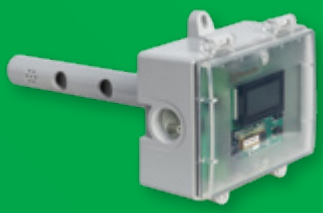
CONTROLS

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, 2kW, 3kW, 4kW

INSTALLATION & MAINTENANCE

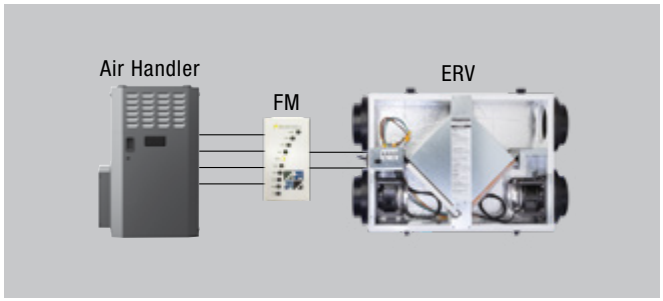
INSTALLATION

- Four 6" duct collars for easy duct connection
- Easy integration with existing or new forced-air furnace ducting or for stand-alone applications
- Adjustable brackets and screws for easy and quick installation
- Spring isolators are provided for hanging chain mount

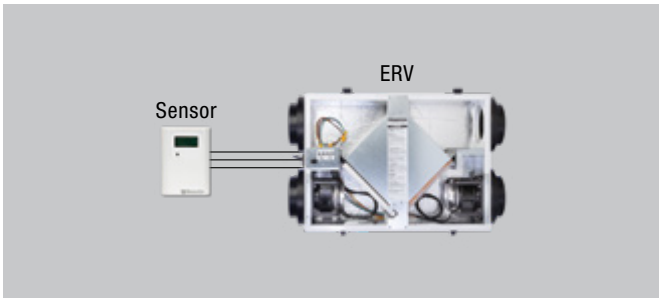
CEILING BRACKET MOUNT

HANGING CHAIN MOUNT

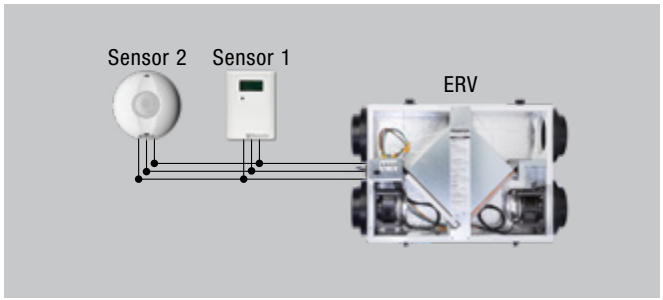
CONTROL STRATEGIES



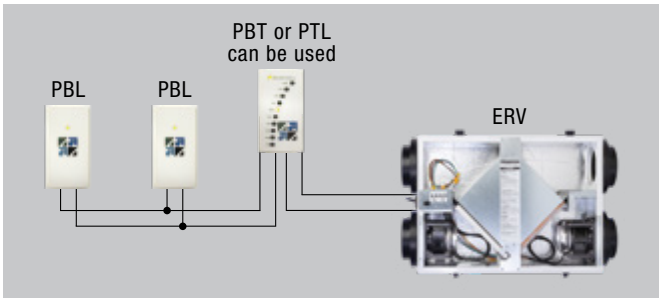
INTERLOCK WITH AIR HANDLER



SINGLE CONTROL



MULTIPLE CONTROLS



PBT OR PTL WITH 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

2024 © RenewAire LLC
LIT118_05 (01/24)