





SINGLE/MULTI-FAMILY ERV CATALOG

JUNE 2023

RENEWAIRE.COM | 800.627.4499

COLLEGE OF

SL SERIES—Unitary ERV							
MODEL	ТҮРЕ	CFM RANGE	PAGE				
SL75H	Contractor-Grade, Four-Duct Connection Hard Wired to Junction Box	30-130 CFM	6–7				
SL75	Consumer-Grade, Four-Duct Connection Line-Cord Power Supply	30-130 CFM	8–9				

EV SERIES—U MODEL EV Premium SH	TYPE Contractor-Grade, Four-Duct Connection Hard Wired to Junction Box	CFM RANGE 30–130 CFM	PAGE
EV Premium SH	Four-Duct Connection	30-130 CFM	
			10–11
EV Premium S	Consumer-Grade, Four-Duct Connection Line-Cord Power Supply	30-130 CFM	12–13
EV Premium MH	Contractor-Grade, Four-Duct Connection Hard Wired to Junction Box	30-225 CFM	14–15
EV Premium M	Consumer-Grade, Four-Duct Connection Line-Cord Power Supply	30-225 CFM	16–17
EV Premium LH	Contractor-Grade, Four-Duct Connection Hard Wired to Junction Box	30-280 CFM	18–19
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INDOOR AIR QUALITY MATTERS

DEFICIENT INDOOR AIR QUALITY IS A THREAT

As **buildings get tighter to seal weather out, they seal in contaminants**, causing deficient 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—and up to 100 times—more polluted than outdoor air. The EPA ranks indoor air pollution as a top-five health risk.¹







ADVERSE EFFECTS OF DEFICIENT IAQ



HEALTH PROBLEMS

Deficient IAQ can cause allergies, headaches, coughs, asthma, skin irritations and breathing difficulties, as well as cancer, liver disease, kidney damage and nervous-system failure.



DISEASE TRANSMISSION

Ventilation with outdoor air is vital to diluting airborne contaminants and decreasing disease transmission rates.



COGNITIVE IMPAIRMENT

Harvard and Berkeley Lab found that CO2 a constituent of exhaled breath—negatively impacts thinking and decision-making at levels commonly found indoors.²



REDUCED PRODUCTIVITY

Berkeley Lab found that deficient IAQ can cost \$200 billion in debilitated worker performance and \$58 billion in lost sick time.³



Ventilation can enhance IAQ and decrease the transmission of airborne infectious diseases, including COVID-19: https://bit.ly/COVID19WP_22

- ¹ "Why Indoor Air Quality is Important to Schools," U.S. Environmental Protection Agency (EPA), https://bit.ly/2SoyRJc.
- ² Romm, "Exclusive: Elevated CO2 Levels Directly Affect Human Cognition, New Harvard Study Shows," Climate Progress, https://bit.ly/2Vp6AE2.
- ³ Alevantis, Berman, Mills, Perlman, "The Costs and Financial Benefits of Green Buildings," U.S. Green Building Council (USGBC), https://bit.ly/2KnP50c.

ABOUT RENEWAIRE

For over 40 years, RenewAire has been a pioneer in enhancing IAQ in commercial and residential buildings of every size. This is achieved while maximizing sustainability through our fifth-generation, enthalpic-core, staticplate Energy Recovery Ventilators (ERVs) & Dedicated Outdoor Air Systems (DOAS) that optimize energy efficiency, lower capital costs and decrease operational expenses by reducing HVAC loads therefore minimizing equipment needs, resulting in significant energy savings. Our ERVs/DOAS are competitively priced, simple to install, easy to use and maintain, have a quick payback and enjoy the industry's best warranty with the lowest claims due to long-term reliability. In 2010, RenewAire joined the Soler & Palau (S&P) Ventilation Group, providing direct access to the latest in energy-efficient air-moving technologies. For more information, visit: renewaire.com.

RELEVANT **EVERYWHERE**

EVERY GEOGRAPHIC REGION

Our ERVs excel in every geographic region.

EVERY CLIMATE

Our ERVs operate in every climate—from Alaska to Florida, and everywhere in between.

EVERY PROJECT

From massive skyscrapers to cozy residential homes, our ERVs can be used in every size project and in every code jurisdiction.

RENEWAIRE TEMPERS THE AIR



Our ERVs moderate the extremes of outdoor supply-air temperature and humidity year-round, providing a sustainable solution for cleaner and healthier air that feels like a perfect spring day.

APPLIED ANYWHERE

When indoor occupants breathe in unclean air, this harms their health and causes cognitive impairment. Our ERVs can provide cleaner and healthier indoor air for every type of building in the world, thus improving occupants' wellbeing, while also reducing energy costs.

RESIDENTIAL

The increased airtightness of newer and remodeled homes is causing deficient IAQ, resulting in more health problems for indoor occupants.

COMMERCIAL

As commercial buildings become more airtight, deficient IAQ is increasing and causing sickness, absenteeism and decreased productivity.

HEALTHCARE

The high occupant density of hospitals, nursing homes and other healthcare facilities results in deficient IAQ and ensuing health problems for patients and staff alike.

RESTAURANTS/COFFEE SHOPS

The large volume of indoor occupants in restaurants and coffee shops causes deficient IAQ and subsequent health problems.

RETAIL

The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales.

DAYCARE

Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable.

EDUCATION (K-12, COLLEGE/UNIVERSITY)

With students and teachers packed into tight classrooms, instances of deficient IAQ go up, resulting in academic performance and test scores going down.

GOVERNMENT

Aging and crowded government buildings result in deficient IAQ, which can impair worker performance and productivity.

EVERY TYPE OF BUILDING

Every type of building can benefit from the enhanced IAQ generated by RenewAire ERVs, including veterinary clinics, nail salons and manufacturing facilities, among others.

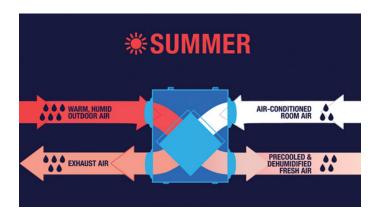


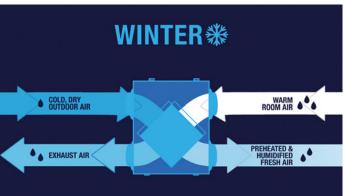
RENEWAIRE ERVs

ACHIEVE SUSTAINABLE IAQ

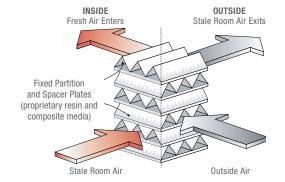
OPTIMIZING ENERGY EFFICIENCY IN EVERY GEOGRAPHIC REGION OR CLIMATE

RenewAire residential ERVs are a sustainable ventilation solution. Our static-plate, cross-flow core separates the outgoing, polluted indoor airstream from the incoming fresh airstream—while simultaneously transferring total energy (heat and water vapor) between the two. Airstreams do not mix and pollutants are not transferred across partition plates. In the winter, that means that the cold, dry outside air is preheated and humidified by the outgoing warm interior air. And in the summer, the warm, humid outside air is precooled and dehumidified by the outgoing air-conditioned interior air.





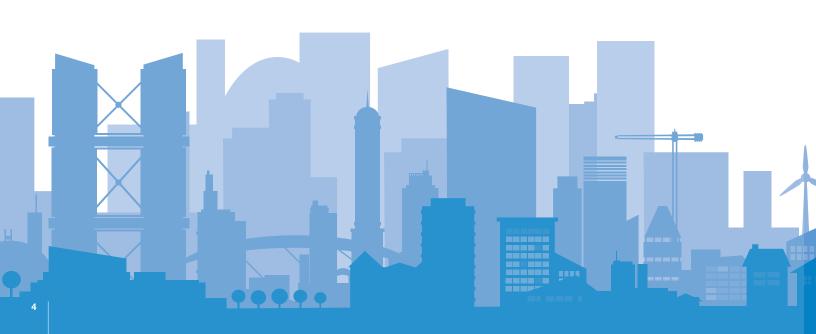
AIRSTREAMS DO NOT MIX & POLLUTANTS ARE NOT TRANSFERRED ACROSS PARTITION PLATES



GREEN BUILDING TRENDS

High-performance, green-building standards seek to reduce energy use and increase ventilation to improve health, wellness, IAQ and indoor environmental quality (IEQ). Sustainable design initiatives like ASHRAE Standard 189.1, LEED, 2030 Challenge, Living Building Challenge and WELL Building Standard have grown in popularity among architects, engineers, contractors and building owners alike.

RenewAire ventilation technologies create healthier and more comfortable indoor environments, while optimizing energy efficiency. This is done by reusing otherwise-wasted total energy from the exhaust air to condition incoming outdoor air. The results are exceptional IAQ, IEQ, energy reductions and cost savings.



WHY RENEWAIRE

IS PREFERRED



BEST VALUE

- Priced competitively against other energy recovery ventilation technology
- Due to competitive pricing and decreased costs, payback is short and ROI is maximized
- Contractors and OEMs can pass these significant savings along to their customers
- End users can benefit from a significantly reduced operating cost



RELIABLE OPERATION

- Built-to-last ERVs have lifespans of 25+ years and operate consistently year-round in every extreme, including frost-free performance in all but the most severe winter climates
- High-efficiency core operates dry in all conditions, meaning no condensate pans
- An industry-leading ten-year warranty for the static-plate core, five-year warranty for residential products
- · Superior product quality results in paramount reliability and longevity



HIGHEST-QUALITY INDOOR AIR

- Stale indoor air is replaced with fresh, conditioned and filtered air from the outside, resulting in Enhanced IAQ by removing harmful contaminants
- Airstreams do not mix and pollutants are not transferred across partition plates
- No biocide used; material does not promote biological growth
- Moderated temperatures and humidity maintain a comfortable indoor environment



OPTIMIZED ENERGY EFFICIENCY

- Efficient heat and humidity transfer recaptures up to 70–80% of the energy exhausted in the airstream
- Energy that's otherwise wasted by conventional ventilation systems (such as bath fans) is reused, thus dramatically reducing monthly operation costs
- Energy-efficient operation decreases HVAC loads, which cuts down on energy use and costs
- $\begin{tabular}{ll} \bullet \\ \end{tabular}$ The hotter or colder the climate, the more energy is recovered



HIGHLY CERTIFIED

- RenewAire products are highly certified. See individual catalog submittal for certification details:
- + ETL + HVI







Energy Recovery Ventilator

EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-130 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol:

Using one L-30-G5 Core

Standard Features:

White painted cabinet Hard wired to junction box Low-voltage circuit for controls Unit may be mounted in any orientation Cross-core differential pressure ports Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls: Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media:

7 1/2" x 10 1/2" x 1" Unit Weight: 35 lbs.

Max. Shipping Dimensions & Weight (in carton):

31 1/4" L x 22 3/8" W x 14 3/8" H

41 lbs

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8" Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection: 12" W x 8" H

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W)

IAQ sensor: wall mount (IAQ-W)

Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)

Percentage timer control (PTL)

Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

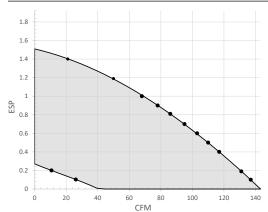
Wall bracket kit

Electric duct heater: RH series (1-4 kW);

87

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



= Actual tested sample points

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

Airflow (CFM)	Pressure (Inches Water Column)	Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer			
138	0.1	135	62	54/36			
131	0.2	134	64	55/38			
125	0.3	133	65	57/40			
117	0.4	132	66	59/42			
110	0.5	131	68	60/44			
102	0.6	129	69	62/46			
95	0.7	126	71	64/48			
87	0.8	123	72	66/51			
78	0.9	119	74	68/53			
68	1	114	76	70/56			
49	1.2	102	79	75/61			
21	1.4	64	85	81/69			
Min Speed							
26	0.1	11	84	80/68			

Notes:

1. Watts is for the entire unit.

11

2. Airflow performance includes effect of clean, standard filter supplied with unit.

External Statio | Unit Dower

3. Refer to CORES for specific operating point electrical data.

0.2

4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

9

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
53	120	60	1	0.85	10	10



83/72

UNIT MOUNTING & APPLICATION Can be mounted in any orientation. RA/EA airstream can be switched with 0A/SA airstream.



AIRFLOW ORIENTATION

Available as shown in dimension drawing.





Energy Recovery Ventilator

EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-130 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-30-G5 Core

Standard Features:

White painted cabinet Line-cord power supply Low-voltage circuit for controls Unit may be mounted in any orientation Cross-core differential pressure ports Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media: 7 1/2" x 10 1/2" x 1"

Unit Weight: 35 lbs.

Max. Shipping Dimensions & Weight (in carton): 31 1/4" L x 22 3/8" W x 14 3/8" H

41 lbs

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8" Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W) IAQ sensor: wall mount (IAQ-W)

Motion occupancy sensor/control:

ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)

Percentage timer control (PTL)

Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

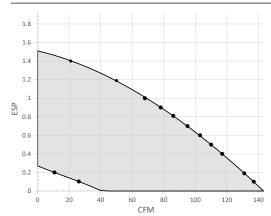
Wall bracket kit

Electric duct heater: RH series (1-4 kW);

87

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



= Actual tested sample points

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

	Airflow (CFM)	Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer		
	138	0.1	135	62	54/36		
	131	0.2	134	64	55/38		
_	125	0.3	133	65	57/40		
	117	0.4	132	66	59/42		
	110	0.5	131	68	60/44		
	102	0.6	129	69	62/46		
	95	0.7	126	71	64/48		
	87	0.8	123	72	66/51		
	78	0.9	119	74	68/53		
	68	1	114	76	70/56		
	49	1.2	102	79	75/61		
	21	1.4	64	85	81/69		
	Min Speed						
	26	0.1	11	84	80/68		
_		†					

Notes:

1. Watts is for the entire unit.

11

2. Airflow performance includes effect of clean, standard filter supplied with unit.

Eutomal Ctatio

3. Refer to CORES for specific operating point electrical data.

0.2

4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

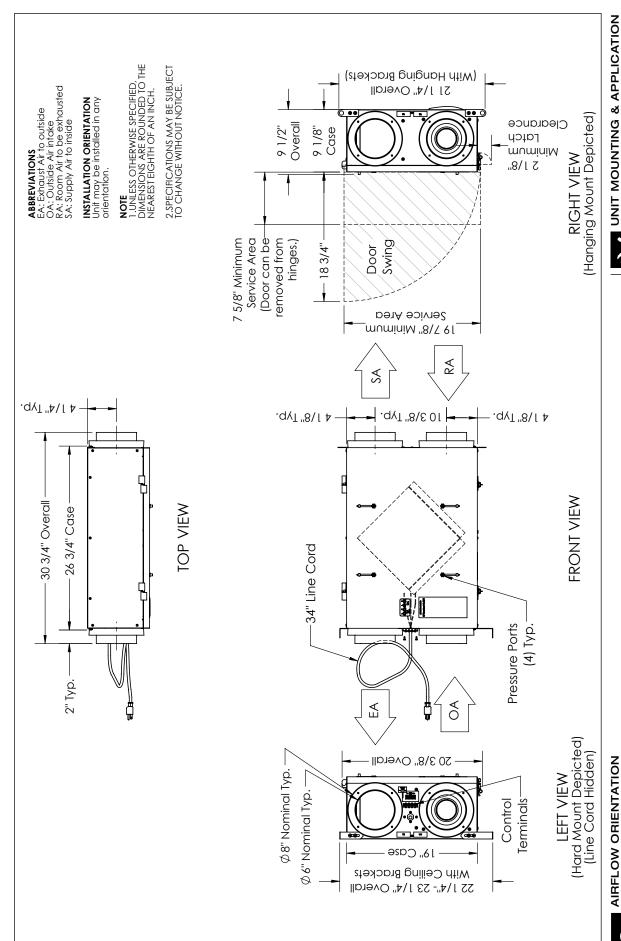
ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
53	120	60	1	0.85	10	10



83/72

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.





Available as shown in dimension drawing







SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-130 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-30-G5 Core

Standard Features:

White painted cabinet Hard wired to junction box Low-voltage circuit for controls

Unit may be mounted in any orientation Cross-core differential pressure ports Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media:

7 1/2" x 10 1/2" x 1"

Unit Weight: 32 lbs.

Max. Shipping Dimensions & Weight (in carton): 30" L x 22" W x 15" H

38 lbs.

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8"

Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized,

paintable galvanneal

Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W),

duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

Percentage timer control (PTL)

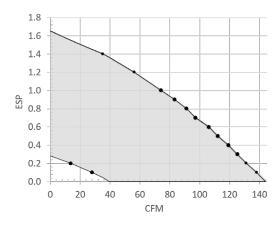
Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

Electric duct heater: RH series (1-4 kW);

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



Actual tested sample points

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

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer					
	Max Speed								
138	0.1	137	62	54/36					
131	0.2	136	64	55/38					
125	0.3	134	65	57/40					
119	0.4	133	66	58/41					
112	0.5	133	67	60/43					
106	0.6	130	68	61/45					
97	0.7	128	70	63/48					
91	0.8	124	71	65/49					
83	0.9	121	73	67/52					
74	1	116	75	69/54					
56	1.2	98	78	73/59					
35	1.4	85	82	78/65					
Min Speed									
28	0.1	13	83	79/67					
13	0.2	12	86	83/71					

Notes:

- 1. Watts is for the entire unit.
- 2. Airflow performance includes effect of clean, standard filter supplied with unit.
- 3. Refer to CORES for specific operating point electrical data.
- 4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

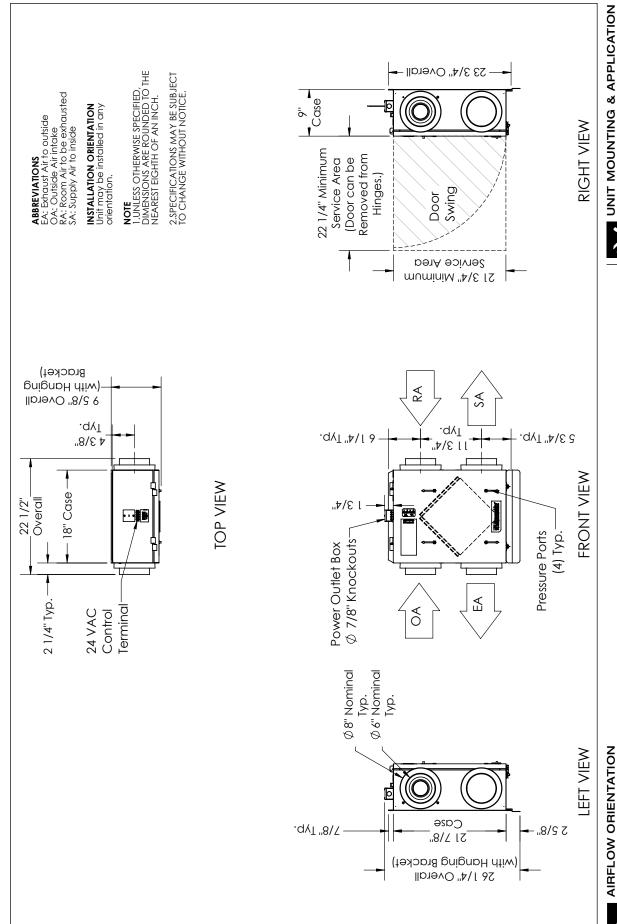
ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
53	120	60	1	0.85	10	10



Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

Energy Recovery Ventilator EC Motor **EV Premium SH**





AIRFLOW ORIENTATION

Available as shown in dimension drawing



Energy Recovery Ventilator

EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-130 CFM

Unit is HVI Tested/Certified per CSA C439

Protocol: Using one L-30-G5 Core

Standard Features:

White painted cabinet Line-cord power supply

Low-voltage circuit for controls

Unit may be mounted in any orientation Cross-core differential pressure ports

Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Filters:

Total qty. 2, MERV 8, spun-polyester media: 7 1/2" x 10 1/2" x 1"

Unit Weight: 32 lbs.

Max. Shipping Dimensions & Weight (in carton):

30" L x 22" W x 15" H

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8"

Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized, paintable galvanneal

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

Percentage timer control (PTL)

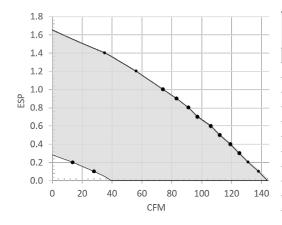
Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

Electric duct heater: RH series (1-4 kW);

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



= Actual tested sample points

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

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer						
	Max Speed									
138	0.1	137	62	54/36						
131	0.2	136	64	55/38						
125	0.3	134	65	57/40						
119	0.4	133	66	58/41						
112	0.5	133	67	60/43						
106	0.6	130	68	61/45						
97	0.7	128	70	63/48						
91	0.8	124	71	65/49						
83	0.9	121	73	67/52						
74	1	116	75	69/54						
56	1.2	98	78	73/59						
35	1.4	85	82	78/65						
Min Speed										
28	0.1	13	83	79/67						
13	0.2	12	86	83/71						

Notes:

- 1. Watts is for the entire unit.
- 2. Airflow performance includes effect of clean, standard filter supplied with unit.
- 3. Refer to CORES for specific operating point electrical data.
- 4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

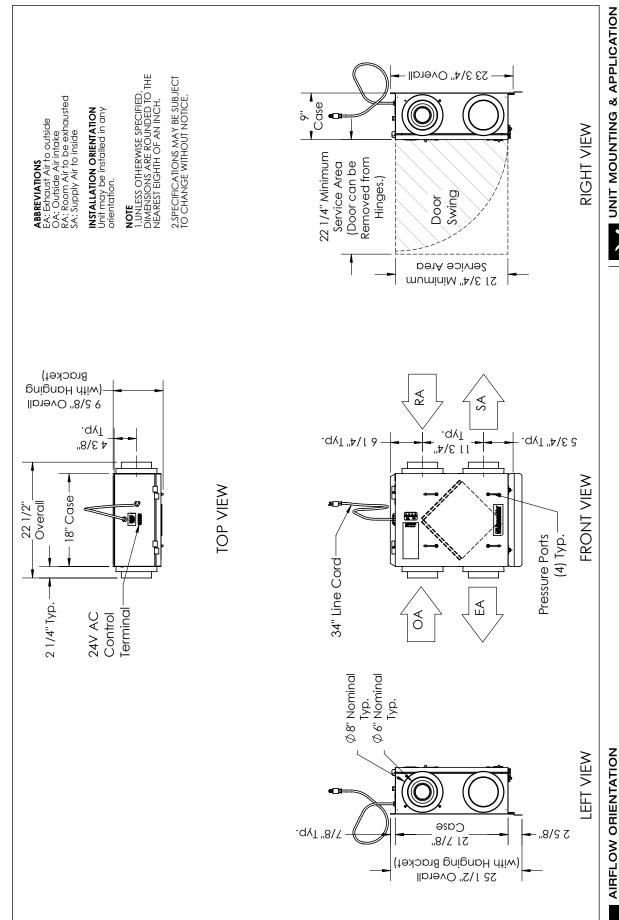
ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
53	120	60	1	0.85	10	10



Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

EC Motor **Energy Recovery Ventilator EV Premium S**





AIRFLOW ORIENTATION

Available as shown in dimension drawing







SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-225 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-50-G5 Core

Standard Features:

White painted cabinet Hard wired to junction box Low-voltage circuit for controls Unit may be mounted in any orientation

Cross-core differential pressure ports Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media: 10 1/2" x 10 1/2" x 1"

Unit Weight: 36 lbs.

Max. Shipping Dimensions & Weight (in carton): 32" L x 22" W x 18" H

48 lbs

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8" Automatic balancing damper: 4", 5", 6"

Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized,

paintable galvanneal

Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)

IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

Percentage timer control (PTL)

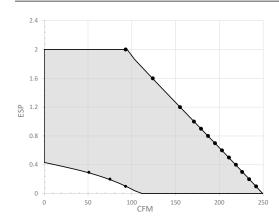
Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

Electric duct heater: RH series (1-6 kW);

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE





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

External Static Unit Power Airflow Sensible **Total EFF%** Pressure (Inches Consumption (CFM) EFF% Winter/Summer Water Column) (Watts) **Max Speed** 242 0.1 191 57 47/28 233 0.2 190 58 48/29 227 0.3 189 59 49/31 189 50/32 218 0.4 60 210 0.5 191 61 52/34 203 0.6 192 62 53/35 195 0.7 189 63 54/37 186 0.8 191 64 56/38 180 0.9 189 65 57/40 172 1 190 66 58/42 68 61/45 155 1.2 191 124 1.6 190 72 66/51 92 2 190 77 71/57 **Min Speed** 93 0.1 74 76 71/57 75 0.2 68 79 74/60 0.3 58 82 78/65 51

AUGMENTED REALITY (AR)

Scan QR code to see life size version of EV Premium M, or view here: https://QR.Marketscale.com/EVPremiumM



Notes:

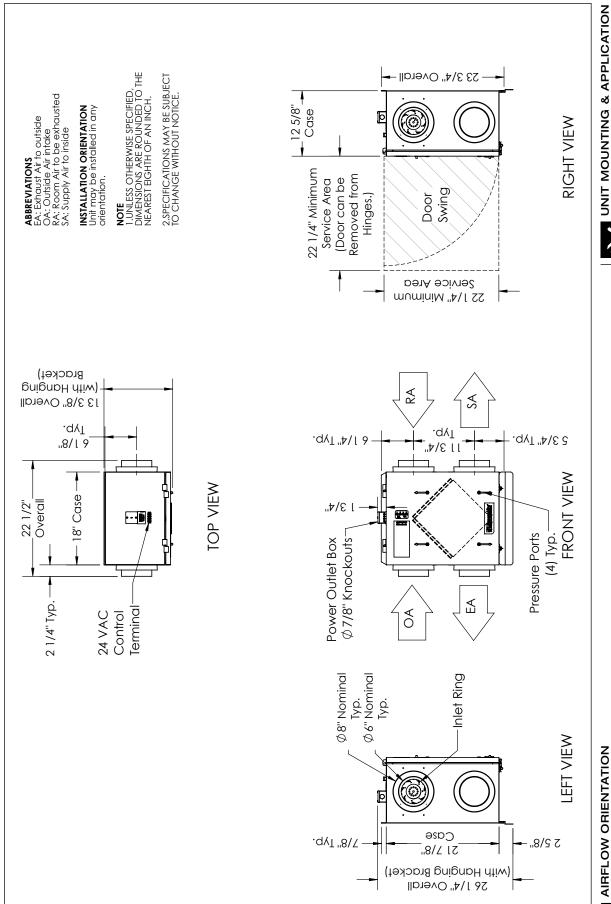
- 1. Watts is for the entire unit.
- 2. Airflow performance includes effect of clean, standard filter supplied with unit.
- 3. Refer to CORES for specific operating point electrical data.
- 4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
85	120	60	1	1.22	10	10



Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.





AIRFLOW ORIENTATION
Available as shown in dimension drawing.



Energy Recovery Ventilator EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-225 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-50-G5 Core

Standard Features:

White painted cabinet Line-cord power supply Low-voltage circuit for controls Unit may be mounted in any orientation Cross-core differential pressure ports

Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media: 10 1/2" x 10 1/2" x 1"

Unit Weight: 36 lbs.

Max. Shipping Dimensions & Weight (in carton): 32" L x 22" W x 18" H

48 lbs

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8" Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized, paintable galvanneal

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E) Carbon dioxide sensor/control: wall mount (CO2-W),

duct mount (CO2-D) IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

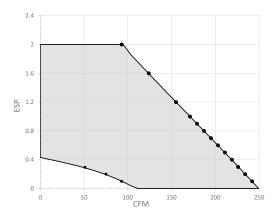
Percentage timer control (PTL)

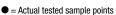
Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL req'd. MERV 13 filter: OA airstream (shipped loose)

Electric duct heater: RH series (1-6 kW); designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE





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

External Static Unit Power Airflow Sensible **Total EFF%** Pressure (Inches Consumption (CFM) EFF% Winter/Summer Water Column) (Watts) **Max Speed** 242 0.1 191 57 47/28 233 0.2 190 58 48/29 227 0.3 189 59 49/31 50/32 218 0.4 189 60 210 0.5 191 61 52/34 203 0.6 192 62 53/35 195 0.7 189 63 54/37 186 0.8 191 64 56/38 180 0.9 189 65 57/40 172 1 190 66 58/42 68 61/45 155 1.2 191 124 1.6 190 72 66/51 92 2 190 77 71/57 **Min Speed** 93 0.1 74 76 71/57 75 0.2 68 79 74/60 0.3 58 82 78/65 51

AUGMENTED REALITY (AR)

Scan QR code to see life size version of EV Premium M, or view here: https://QR.Marketscale.com/EVPremiumM



Notes:

- 1. Watts is for the entire unit.
- 2. Airflow performance includes effect of clean, standard filter supplied with unit.
- 3. Refer to CORES for specific operating point electrical data.
- 4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
85	120	60	1	1.22	10	10



Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.





le as shown in dimension drawing.







SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30-280 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-100-G5 Core

Standard Features:

White painted cabinet Hard wired to junction box Low-voltage circuit for controls Unit may be mounted in any orientation Cross-core differential pressure ports

Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Total qty. 2, MERV 8, spun-polyester media: 10 1/2" x 21 3/4" x 1"

Unit Weight: 52 lbs.

Max. Shipping Dimensions & Weight (in carton): 33" L x 22" W x 29" H

66 lbs.

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8" Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized,

paintable galvanneal

Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W),

duct mount (CO2-D) IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control:

ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

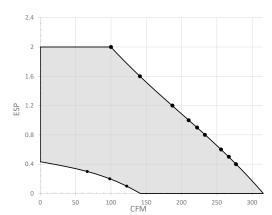
Percentage timer control (PTL)

Percentage timer control with furnace interlock (FM)

Push-button point-of-use controls (PBL), PTL reg'd. MERV 13 filter: OA airstream (shipped loose) Electric duct heater: RH series (1–8 kW);

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



Actual tested sample points

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

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer
		Max Speed		
278	0.4	183	71	64/49
267	0.5	185	72	65/50
256	0.6	184	73	66/51
244	0.7	184	73	67/52
233	0.8	184	74	68/53
222	0.9	184	75	69/54
210	1	184	76	70/56
187	1.2	185	77	72/58
141	1.6	183	80	75/62
100	2	185	82	78/66
		Min Speed		
122	0.1	80	81	77/64
98	0.2	79	83	78/66
67	0.3	70	85	81/69

Notes:

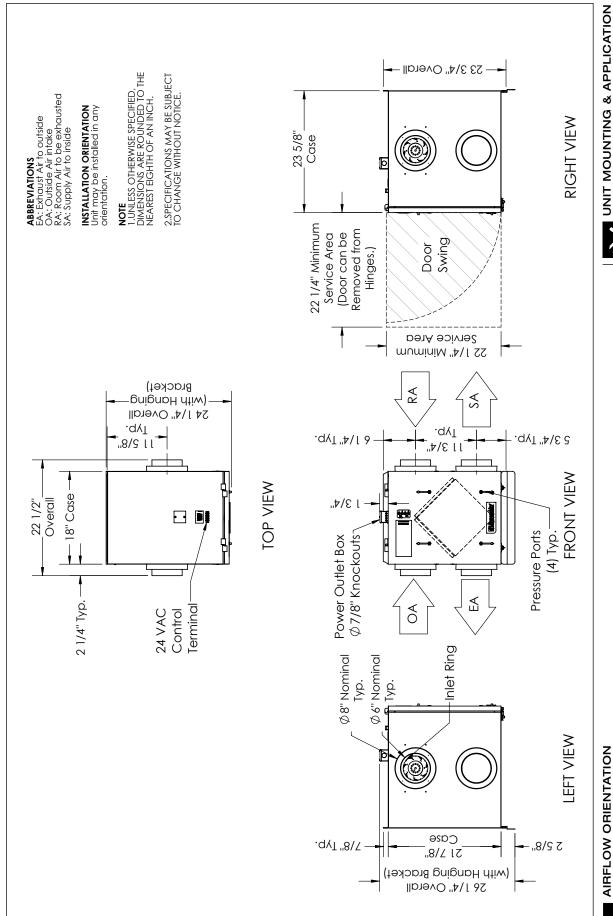
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ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
85	120	60	1	1.22	10	10



Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.







Available as shown in dimension drawing





Energy Recovery Ventilator

EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30–280 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-100-G5 Core

Standard Features:

White painted cabinet Line-cord power supply

Low-voltage circuit for controls
Unit may be mounted in any orientation
Cross-core differential pressure ports

Dial-A-Flow: balance and airflow adjustment

Variable speed Boost-mode

Onboard digital controller with independent variable speeds

Filters:

Controls:

Total qty. 2, MERV 8, spun-polyester media: 10 1/2" x 21 3/4" x 1"

Unit Weight: 52 lbs.

Max. Shipping Dimensions & Weight (in carton):

33" L x 22" W x 29" H

66 lbs.

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

Backdraft damper: 6", 8"

Automatic balancing damper: 4", 5", 6" Louvered wall vent 6": white, brown Louvered wall vent 8": taupe vinyl, galvanized,

paintable galvanneal

Louvered wall vent with 8" round duct connection:

12" W x 8" H

Hooded wall vent 8": galvanized,

paintable galvanneal

Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)

IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D) Motion occupancy sensor/control:

ceiling mount (MC-C), wall mount (MC-W)

Push-button boost timer (PBT)

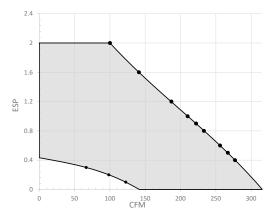
Percentage timer control (PTL)

Percentage timer control with furnace interlock (FM) Push-button point-of-use controls (PBL), PTL req'd.

MERV 13 filter: OA airstream (shipped loose) Electric duct heater: RH series (1–8 kW);

designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



= Actual tested sample points

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

Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer
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122	0.1	80	81	77/64
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67	0.3	70	85	81/69

Notes:

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- 2. Airflow performance includes effect of clean, standard filter supplied with unit.
- 3. Refer to CORES for specific operating point electrical data.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
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^{4.} These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 35 of SL & EV Premium Catalog and at hvi.org.





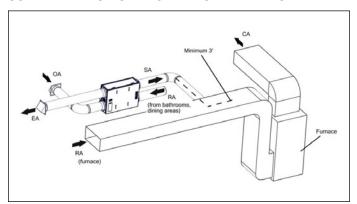
AIRFLOW ORIENTATION

Available as shown in dimension drawing

APPLICATIONS—COMMON INSTALLATION APPROACHES

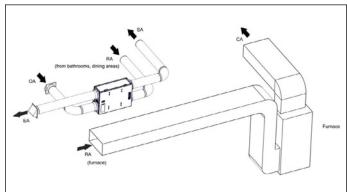
SL and EV Premium Series

SEPARATE RETURN AIR PICK-UP SUPPLY AIR TO FURNACE RETURN AIR TRUNK



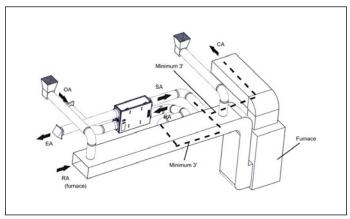
Note: ERV blower may be operated separate from furnace blower.

SEPARATE RETURN AIR AND SUPPLY AIR



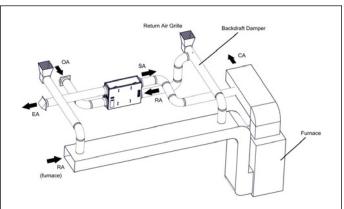
Note: ERV blower may be operated separate from furnace blower.

FURNACE RETURN AIR BACK INTO RETURN AIR



Note: The furnace blower must be operated any time the ERV is operated. Use furnace fan "on" continuous low speed or optional FM control to cycle furnace fan on ERV.

FURNACE RETURN AIR BACK INTO SUPPLY AIR



Note: ERV blower may be operated separate from furnace blower.

Conditioned Air (CA); Exhaust Air (EA); Outside Air (OA); Room Air (RA); Supply Air (SA)

CONTROL STRATEGIES

See individual submittal pages for compatibility by model.

Continuous Ventilation

ONE-SPEED

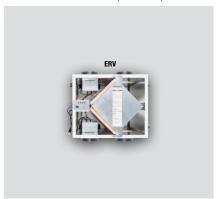
Standalone

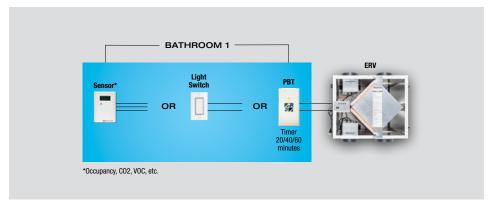
- · No additional controls required
- · Models run at the set low-speed when powered

TWO-SPEED

Low Speed with a Single On Demand Boost Mode Activation Location (e.g. Bathroom)

Models run at the set low-speed when powered and operate at set high-speed only when activated by signal

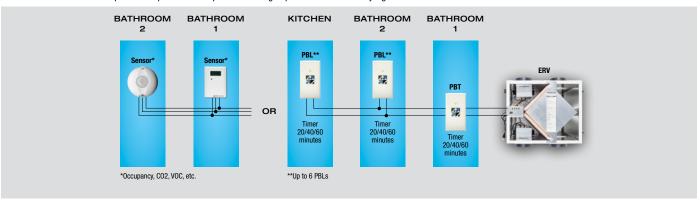




TWO-SPEED

Low Speed with Multiple On Demand Boost Mode Activation Locations (e.g. Bathrooms, Kitchen, etc.)

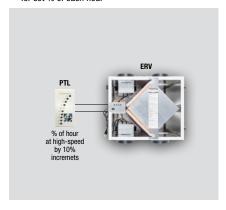
Models run at the set low-speed when powered and operate at set high-speed when activated by signal



TWO-SPEED

Low Speed with Set % of Hour Boost Mode Activation

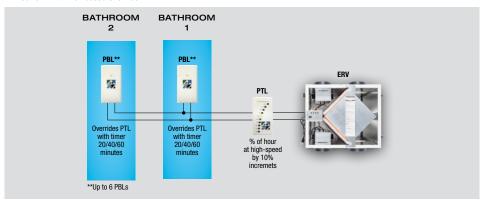
 Models run at the set low-speed when powered and operate at high-speed only when activated by PTL for set % of each hour



TWO-SPEED

Low Speed with Set % of Hour Boost Mode Activation and Additional On Demand Boost Mode Activation Locations (e.g. Bathrooms, Kitchen, etc.)

 Models run at the set low-speed when powered and operate at high-speed only when activated by PTL for set % of each hour or PBL timer-based override





CONTROL STRATEGIES

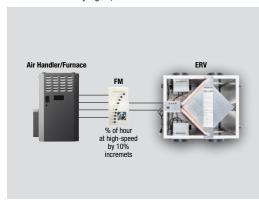
See individual submittal pages for compatibility by model.

Intermittent Ventilation

ONE-SPEED

Furnace Interlock

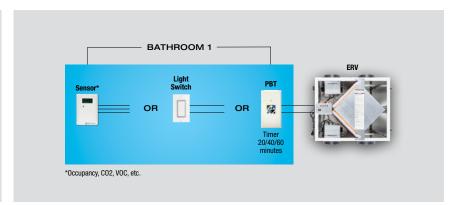
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by signal, which also turns furnace blower on



TWO-SPEEDS

Single On Demand Activation Location (e.g. Bathroom)

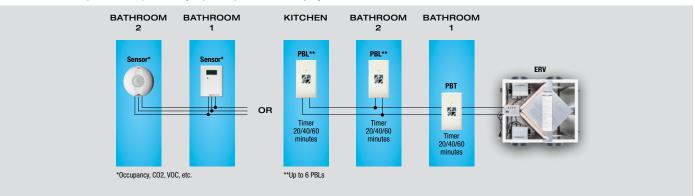
- · Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by signal



ONE-SPEED

Multiple On Demand Activation Locations (e.g. Bathrooms, Kitchen, etc.)

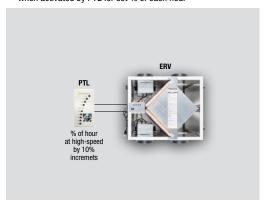
- Low-Speed set to 0, and High-Speed set for desired CFM
- · Models are off when powered and operate at High-Speed only when activated by signal



ONE-SPEED

Set % of Hour Activation

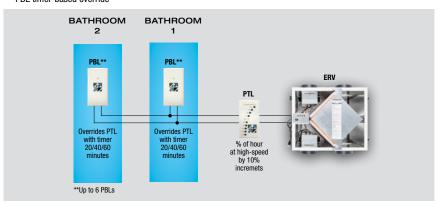
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by PTL for set % of each hour



ONE-SPEED

Set % of Hour Activation and Additional On Demand Activation Locations (e.g. Bathrooms, Kitchen, etc.)

- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by PTL for set % of each hour or PBL timer-based override





See individual submittal pages for compatibility by model.

Controls

Standard controls are intended to turn RenewAire single/multi-family energy recovery ventilation systems on and off at appropriate times. Installation and set-up is an easy process.

Built-in low voltage transformer for use with percentage run timer or push button lighted controls for on/off, continuous and/or boost mode operation.

. Digital time clock, CO2 sensors, IAQ sensors and motion occupancy sensors—can be applied with internal low voltage transformer

PERCENTAGE TIMER (PTL)

Primary control

- Units can run an adjustable amount of time each hour
- · Two-wire, low-voltage connection



PTL Control

PERCENTAGE TIMER WITH FURNACE INTERLOCK (FM)

Primary contro

- Low-voltage wire connects to EV unit and either thermostat or furnace control to turn on furnace blower
- · Six-wire, low-voltage connection



FM Control

PUSH-BUTTON BOOST TIMER (PBT)

Primary control

- Push-button control sends unit to boost mode from bathrooms or other intermittent exhaust locations
- Push once for 20 minutes, twice for 40 minutes, and 3 times for 60 minutes of run-time.
- ◆ Two-wire, low-voltage connection



PBT Control

PUSH-BUTTON POINT OF USE TIMER (PBL)

Secondary control used in combination with PTL or PBT control

- Push-button control turns on unit from bathrooms or other intermittent exhaust locations
- Push once for 20 minutes, twice for 40 minutes, and 3 times for 60 minutes of run-time.
- Two-wire, low-voltage connection to PTL or PBT control



PBL Control — requires PTL or PBT Control



See individual submittal pages for compatibility by model.

Controls

DIGITAL TIME CLOCK (TC7D-W, TC7D-E)

- Up to 8 on/off cycles per day or 56 per week
- 24VAC power requirement, external power supply must be provided if used with BR models, EV90, EV130, EV200, EV240 and EV300
- Wall mount or outdoor enclosure options
- Wall mount fits any 4" x 4" electrical box



TC7D-W Wall Mount



TC7D-F Control In **NEMA 3R Enclosures**

CO2 SENSORS (CO2-W, CO2-D)

- Adjustable control from 400–2000 PPM
- Digital display
- 24VAC power requirement, external power supply must be provided if used with BR models, EV90, EV130, EV200, EV240 and EV300
- Computer/BAS interface for information and control
- Self calibrates during periods of low occupancy
- · Wall mount or add duct mount accessory



C02-W Wall Mount



C02-D **Duct Mount**

IAQ SENSORS (IAQ-W, IAQ-D)

- Measures TVOC
- Direct correlation to CO2 levels
- 0-2000 ppm CO2 equivalent output signal
- Digital display on wall mount
- Selectable 0-5 or 0-10V dc signal
- 24VAC power requirement, external power supply must be provided if used with BR models, EV90, EV130, EV200, EV240 and EV300
- Internal menu for easy set-up



IAQ-W Wall Mount



Duct Mount

MOTION OCCUPANCY SENSORS (MC-C, MC-W)

- · Passive infrared sensor
- · Adjustable time-off delay to 30 minutes
- 24VAC power requirement, external power supply must be provided if used with BR models, EV90, EV130, EV200, EV240 and EV300
- Ceiling mount or directable wall mount
- Coverage floor space
- -Ceiling mount: 1500 sq. ft. -Wall mount: 2500 sq. ft.
- Major motion area
- -Ceiling mount: 50 ft. diameter
- -Wall mount: 68 x 50 ft.



MC-C Ceiling Mount



Wall Mount

Mounting

WALL BRACKET KIT (SL ONLY)

For vertical installation on stud walls or field-supplied support/backing panels



Wall Bracket Kit

Filters

MERV 13 FILTERS

- Electrostatically charged filter fibers
- Single die-cut construction frame
- Moisture-resistant construction
- High holding capacity design Expanded metal reinforcement
- · Shipped loose



MFRV 13 Filter



See individual submittal pages for compatibility by model.

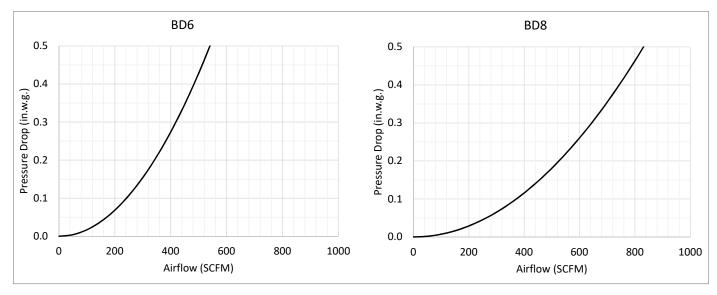
Dampers

6" & 8" BACKDRAFT DAMPERS (BD6 & BD8)

- Mechanical "butterfly" design
- Male/female ends



BD6 & BD8 PRESSURE DROP PERFORMANCE



4", 5" & 6" AUTOMATIC BALANCING DAMPERS (ABV-4, ABV-5 & ABV-6)

- Using physics, they will constrain the airflow volume to precise factory-calibrated volumes as marked on the front of the dampers.
 - First the desired airflow is set by moving the set-point adjustment arm to the desired airflow in CFM (cubic feet per minute).
 - Then the fixed stator blade applies the exact amount of tension on the moving damper blade to hold the airflow at its target.
 - Lastly, the pressure differential across the moving damper blade gives the blade lift to automatically adjust to changes in static pressure and air velocity. This is what gives it "pressure independence."





See individual submittal pages for compatibility by model.

Louvered Wall Vents

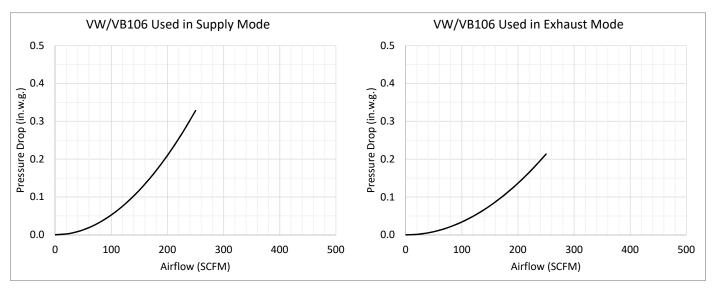
6" VINYL (VB106 & VW106)

- Brown (VB) or white (VW)
- Low pressure drop design
- · Cleanable metal screen





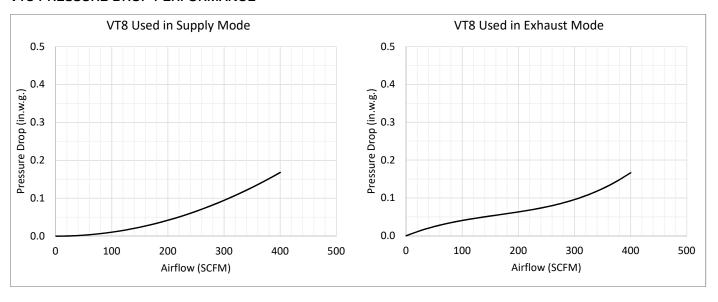
VB106 & VW106 PRESSURE DROP PERFORMANCE



8" VINYL (VT8)

- laupe
 - 1 1/2" channel for siding
- 4 removeable flaps
- 1/4" plastic screen

VT8 PRESSURE DROP PERFORMANCE



See individual submittal pages for compatibility by model.

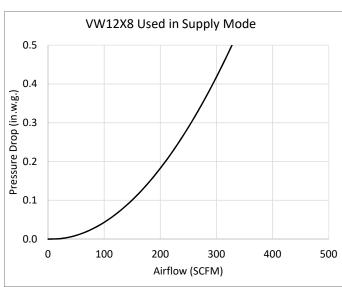
Louvered Wall Vents

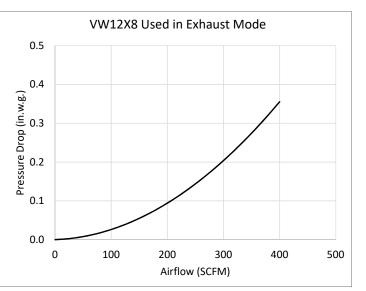
12" x 8" GALVANIZED (VW12 x 8)

- Round duct connectFlush mount
- ◆ 1/2" metal screen



VW12 x 8 PRESSURE DROP PERFORMANCE





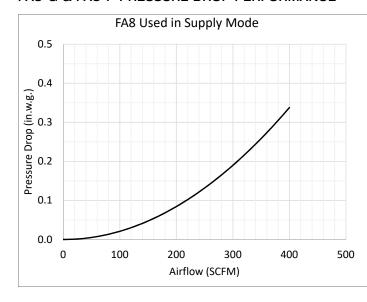
Hooded Wall Vents

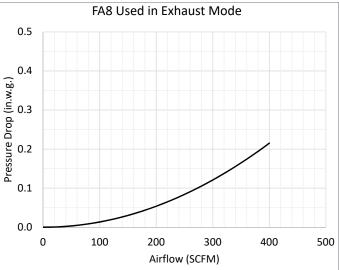
8" GALVANIZED (FA8-G) & W8" GALVANNEAL (FA8-P)

- Paintable (galvanneal only)
- ◆ 1/4" metal screen



FA8-G & FA8-P PRESSURE DROP PERFORMANCE



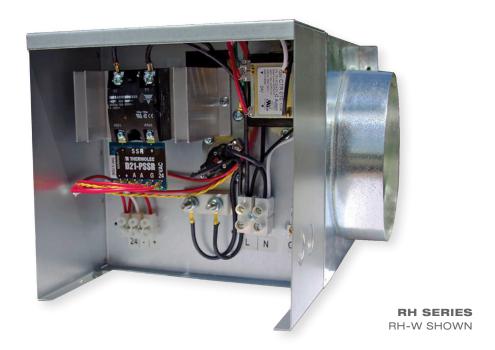




RH Series Electric Duct Heater

AVAILABLE ON SINGLE/MULTI-FAMILY AND LIGHT COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)

RenewAire offers the highest-efficiency energy recovery ventilators (ERVs) on the market. However, during winter conditions, supply air from the ERV may be less than optimal for space conditions. By adding **RENEWAIRE'S ROUND ELECTRIC DUCT HEATER** as an option to our single/multi-family and light commercial ERVs, RenewAire can now heat supply air during cooler months to enhance indoor comfort, all via one package for ERVs and heaters from a single source.



KEY BENEFITS

- A single source reduces time and costs: A single
 information source, a single purchase point and a single
 approval package for ERVs and heaters reduces design time
 and costs, and streamlines logistics for design engineers
 and contractors.
- More flexibility: RenewAire offers design engineers the capacity to specify ERVs with a matching heater to boost flexibility and provide heated air to a single space or multiple spaces.
- Easy installation: A ZERO clearance rating to combustibles allows designers and contractors to apply RenewAire heaters with less restrictions onsite.
- Ultimate reliability: RenewAire heaters come with our two-year warranty and unmatched reliability. Single-source responsibility offers contractors and end users peace of mind and a single call location for technical, start-up and commissioning questions.
- Highly certified: CSA certified and evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada.





Electric Duct Heater (1-11.5 kW)

Accessory



ELECTRIC DUCT HEATER



RH-D (Integral Thermostat)



RH-W (Wall-Mount Thermostat)

SPECIFICATIONS

Heater Type:

Electric Duct Heater

Typical kW Range:

1-11.5 kW (1, 2, 3, 4, 5, 6, 8, 10, 11.5 kW)

Voltages & Phase:

Single phase: 120, 208 and 240V

Control Voltage:

24VAC

Controllable Output Temperature Range:

RH-D: 5 to 131° F RH-W: -3 to 130° F

Standard Features:

Open-coil element High-grade, nickel-chrome element wire Thermostat: Integral (RH-D), Wall mount (RH-W)

Modulating heat output (SCR control) Vertical or horizontal operation Automatic limit switch for primary over-temperature protection

Manual reset limit switch for secondary over-temperature protection

Airflow sensor Standard control transformer: 24VAC Corrosion-resistant galvanized steel Round duct collars

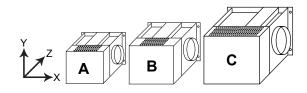
High-voltage terminal block connections

Grounding lug
Mounting flanges

Accessories:

Temperature sensor: Duct mount (DS-600) Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E) Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)

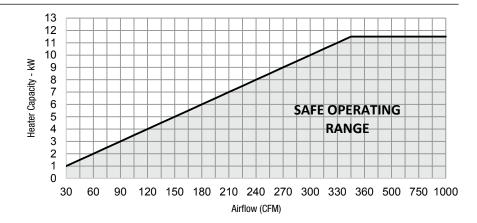
Note: Electric duct heater designed for indoor ductwork installation only.



Duct Collar Sizes (in.)	kW	Volts	Size	Width (X) (in.)	Height (Y) (in.)	Depth (Z) (in.)	Max. Wt. (lbs.)
6	1, 2	120, 208, 240	Α	11 1/2	8	11 1/2	10
8	3, 4, 5	208	В	11 1/2	10	13 1/2	15
8	3, 4, 5, 6	240	В	11 1/2	10	13 1/2	15
10	3, 4, 5	208	С	15 1/2	12	15 1/2	20
10	3, 4, 5, 6, 8, 10, 11.5	240	С	15 1/2	12	15 1/2	20
12	6, 8, 10, 11.5	240	С	15 1/2	12	15 1/2	20

RH SERIES HEATER CAPACITY

Minimum Airflow (CFM)	Heater Capacity (kW)
30	1.00
60	2.00
90	3.00
120	4.00
150	5.00
180	6.00
240	8.00
300	10.00
345	11.50



RH SERIES CONFIGURATIONS

Duct Collar Size (in)	Voltage (1P, 60 Hz)	Heater Capacity (kW)	Line Amps	Wire Gauge	Fuse Amps	Thermostat	Part Number	Configuration
		1	8.33	12	15	Integral	131320	RHD1120-6
	120	'	0.33	12	15	Wall Mount	131324	RHW1120-6
	120	2	16.66	12	20	Integral	131321	RHD2120-6
		2	10.00	12	20	Wall Mount	131325	RHW2120-6
		4	4.00	10	45	Integral	131352	RHD1208-6
	000	1	4.80	12	15	Wall Mount	131363	RHW1208-6
6	208		0.04	40	45	Integral	131354	RHD2208-6
		2	9.61	12	15	Wall Mount	131365	RHW2208-6
		4	A 10	12	15	Integral	131353	RHD1240-6
	040	1	4.16	12	15	Wall Mount	131364	RHW1240-6
	240		0.22	40	45	Integral	131355	RHD2240-6
		2	8.33	12	15	Wall Mount	131366	RHW2240-6
			4.4.0	40	20	Integral	131356	RHD3208-8
		3	14.42	12	20	Wall Mount	131367	RHW3208-8
	000	4	10.00	10	00	Integral	131357	RHD4208-8
	208	4	19.23	10	30	Wall Mount	131368	RHW4208-8
		_	04.00	10	00	Integral	131358	RHD5208-8
		5	24.03	10	30	Wall Mount	131369	RHW5208-8
_		_	40.50			Integral	131322	RHD3240-8
8		3	12.50	12	15	Wall Mount	131326	RHW3240-8
			40.00			Integral	131323	RHD4240-8
	0.40	4	16.66	12	20	Wall Mount	131327	RHW4240-8
	240	_	22.22			Integral	131359	RHD5240-8
		5	20.83	10	30	Wall Mount	131370	RHW5240-8
		_				Integral	131360	RHD6240-8
		6	25.00	10	40	Wall Mount	131371	RHW6240-8
						Integral	131336	RHD3208-10
		3	14.42	12	20	Wall Mount	131328	RHW3208-10
		0 4 10.22			Integral	131338	RHD4208-10	
	208	8 4	19.23	10	30	Wall Mount	131330	RHW4208-10
		_	24.03	10	30 -	Integral	131340	RHD5208-10
		5				Wall Mount	131332	RHW5208-10
		_				Integral	131337	RHD3240-10
		3	12.50	12	15	Wall Mount	131329	RHW3240-10
			40.00	40		Integral	131339	RHD4240-10
		4	16.66	12	20	Wall Mount	131331	RHW4240-10
10		_				Integral	131341	RHD5240-10
		5	20.83	10	30	Wall Mount	131333	RHW5240-10
	040		05.00	40	40	Integral	131342	RHD6240-10
	240	6	25.00	10	40	Wall Mount	131334	RHW6240-10
			22.22			Integral	131343	RHD8240-10
		8	33.33	8	50	Wall Mount	131348	RHW8240-10
		40	44.00		-00	Integral	131361	RHD10240-10
		10	41.66	6	60	Wall Mount	131372	RHW10240-10
		44.5	47.04	_	00	Integral	131362	RHD11-1/2240-10
		11.5	47.91	6	60	Wall Mount	131373	RHW11-1/2240-10
			05.00	10	40	Integral	131344	RHD6240-12
		6	25.00	10	40	Wall Mount	131335	RHW6240-12
			00.00	_		Integral	131345	RHD8240-12
	215	8	33.33	8	50	Wall Mount	131349	RHW8240-12
12	240	4.0	44.00	_	00	Integral	131346	RHD10240-12
		10	41.66	11.66 6	60	Wall Mount	131350	RHW10240-12
		44 -	11.5 47.91 6	0.5	Integral	131347	RHD11-1/2240-12	
		11.5		60	Wall Mount	131351	RHW11-1/2240-12	



SOUND DATA

SL75/H

Course	CFM				Sound Powe	er Level (dB)				Lw	LwA	Sones
Source	GFINI	62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	(dB)	(dBA)	Sones
	51	57	54	46	37	31	27	18	18	59	43	0.2
Case Radiated	118	59	58	57	52	40	35	25	29	63	52	1.5
	155	60	60	59	54	44	40	28	32	65	55	2.1
	37	73	62	52	46	38	29	27	28	73	51	1.7
Room Inlet (SA)*	108	76	65	55	48	39	31	28	29	77	54	2.5
	145	78	67	56	49	40	31	29	30	78	56	2.9
	36	60	57	53	49	36	30	27	21	63	49	0.8
Room Outlet (RA)*	105	64	56	51	48	34	27	24	19	65	48	0.9
	147	68	63	54	47	39	29	28	34	69	51	1.6
	37	57	47	42	35	31	25	18	20	57	39	0.0
Room Inlet (SA)**	110	60	56	49	44	33	25	23	16	61	46	0.4
	150	65	59	56	56	45	40	29	32	67	55	1.9
	39	58	50	46	31	31	23	19	19	59	41	0.1
Room Outlet (RA)**	108	60	53	51	43	31	27	23	15	61	45	0.4
	148	61	58	53	45	34	29	25	18	63	48	0.7

Note: *Hard ducted 1m to measurement area.

**Insulated flex duct 5' to measurement area.

EV PREMIUM S/SH

Course	CEM				Sound Powe	er Level (dB)				Lw	LwA	Sones
Source	CFM	62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	(dB)	(dBA)	Sones
	39	62	49	38	47	37	27	20	18	63	46	0.6
Case Radiated	125	72	58	55	56	44	36	26	20	72	55	2.2
	172	75	63	60	53	45	30	28	28	76	56	2.6
	38	69	67	68	68	69	66	62	58	76	73	3.0
Room Inlet (SA)*	132	78	76	76	70	69	64	64	65	82	75	4.0
	180	80	78	77	71	71	68	67	65	84	76	4.8
	38	56	49	49	50	51	49	44	38	59	55	0.1
Room Outlet (RA)*	126	59	57	55	55	55	55	54	55	65	62	1.2
	181	57	57	59	60	60	58	56	56	67	65	1.9
	40	51	48	40	35	36	37	35	33	53	43	0.0
Room Inlet (SA)**	127	55	54	51	50	47	47	46	46	60	54	0.1
	173	57	56	55	54	53	52	50	48	63	59	0.4
	40	51	49	46	45	46	44	38	36	56	50	0.0
Room Outlet (RA)**	127	54	53	53	52	52	53	53	51	62	59	0.5
, ,	172	56	56	57	57	57	56	54	52	65	62	0.7

Note: *Hard ducted 1m to measurement area.

**Insulated flex duct 5' to measurement area.

Sound Data: Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

Testing Method: Testing conducted per the following standards: AHRI 230 & 260, ISO 9614-1 & 9614-2. Testing conducted internally at RenewAire.



SOUND DATA

EV PREMIUM M/MH

Source	CFM				Sound Powe	er Level (dB)				Lw	LwA	Sones
Source	GEIVI	62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	(dB)	(dBA)	
	85	63	54	52	44	38	33	20	24	64	47	0.7
Case Radiated	175	61	57	63	54	44	43	36	35	66	56	2.8
	224	65	57	60	58	53	50	44	41	68	59	3.4
	91	62	61	58	54	54	55	55	54	67	62	1.3
Room Inlet (SA)*	181	68	67	65	63	60	60	62	62	73	68	2.8
	232	72	68	67	66	64	63	63	65	76	71	3.8
	86	70	66	63	63	63	63	59	57	74	69	2.2
Room Outlet (RA)*	177	68	66	65	63	63	63	66	66	74	72	4.6
	229	67	64	62	63	63	65	66	69	74	73	5.7
	83	53	52	51	48	48	45	45	41	58	53	0.0
Room Inlet (SA)**	168	54	53	52	51	51	50	50	49	61	57	0.3
	204	58	56	56	54	54	54	53	51	64	60	0.5
	81	53	47	49	46	46	41	42	40	56	51	0.0
Room Outlet (RA)**	156	60	57	57	55	54	52	52	50	64	60	0.5
	195	64	61	60	60	59	57	55	56	69	64	1.7

Note: *Hard ducted 1m to measurement area.
**Insulated flex duct 5' to measurement area.

EV PREMIUM L/LH

Cauras	OFM				Sound Powe	er Level (dB)				Lw	LwA	Sones
Source	CFM	62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	(dB)	(dBA)	Solles
	104	63	56	57	53	43	34	21	24	65	53	1.6
Case Radiated	190	64	60	63	58	47	47	40	35	68	59	3.3
	246	70	64	60	56	55	53	45	41	72	60	3.8
	113	63	61	59	55	55	55	55	55	68	62	1.4
Room Inlet (SA)*	211	68	64	64	62	60	61	62	63	73	69	3.0
	258	72	70	67	65	63	63	64	65	76	71	3.9
	110	62	60	59	57	57	58	57	56	68	64	2.0
Room Outlet (RA)*	211	63	61	61	61	61	64	67	67	73	72	4.5
	249	63	62	62	62	63	66	67	71	75	74	6.0
	116	52	50	48	47	47	46	43	39	57	52	0.0
Room Inlet (SA)**	208	56	54	54	53	53	52	51	50	62	59	0.5
	258	58	55	55	55	55	54	53	51	64	61	0.6
	125	55	52	48	47	47	44	42	38	59	52	0.0
Room Outlet (RA)**	202	64	63	61	60	58	57	55	53	69	64	1.0
	261	66	65	63	61	59	58	57	55	71	66	1.2

Note: *Hard ducted 1m to measurement area. **Insulated flex duct 5' to measurement area.

Sound Data: Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

Testing Method: Testing conducted per the following standards: AHRI 230 & 260, ISO 9614-1 & 9614-2. Testing conducted internally at RenewAire.



HVI Tested/Certified PER CSA C439



	SL75H/SL75 - Ventilation Performance												
Externa	I Static	Not Cunn	ly Airflow		Gross	Airflow							
Pres	sure	Met Supp	IY AII IIUW	Sup	ply	Exhaust							
Pa	in. wg	L/s	CFM	L/s CFM		L/s	CFM						
25	0.1	65	138	68	144	68	144						
50	0.2	62	131	65	138	65	138						
75	0.3	59	125	62	131	62	131						
100	0.4	55	117	58	123	59	125						
125	0.5	52	110	55	117	55	117						
150	0.6	48	102	51	108	51	108						
175	0.7	45	95	47	100	47	100						
200	0.8	41	87	43	91	43	91						
225	0.9	37	78	39	83	39	83						
250	1	32	68	34	34 72		74						
275	1.1	28	59	29	61	30	64						
300	1.2	23	49	24	51	26	55						

SL75H/SL75 - Energy Performance										
Supply Temperature		Net Airflow		Average	Sensible Recovery	Adjusted Sensible	Net			
С	F	L/s	СҒМ	Power Watts	Efficiency %	Recovery Efficiency %	Moisture Transfer %			
0°	32°	24	51	30	78	82	64			
0°	32°	36	76	50	74	79	56			
0°	32°	47	100	79	70	75	50			
	Cooling						tal Recovery ency %			
35°	95°	25	53	32	57	59				

EV Premium SH/EV Premium S - Ventilation Performance										
External Static Pressure		Net Supply Airflow		Gross Airflow						
				Supply		Exhaust				
Pa	in. wg	L/s	CFM	L/s	CFM	L/s	CFM			
25	0.1	65	138	69	146	68	144			
50	0.2	62	131	65	138	64	136			
75	0.3	59	125	62	131	61	129			
100	0.4	56	119	59	125	57	121			
125	0.5	53	112	56	119	54	114			
150	0.6	50	106	52	110	50	106			
175	0.7	46	97	49	104	46	97			
200	0.8	43	91	45	95	42	89			
225	0.9	39	83	41	87	37	78			
250	1	35	74	37	78	32	68			

EV Premium SH/EV Premium S - Energy Performance									
	Supply Temperature		Net Airflow		Sensible Recovery	Adjusted Sensible	Net		
С	F	L/s	CFM	Power Watts	Efficiency %	Recovery Efficiency %	Moisture Transfer %		
				Heating					
0°	32°	24	51	28	74	77	58		
0°	32°	36	76	48	69	73	49		
0°	32°	48	102	78	66	71	42		
	Cooling						tal Recovery ncy %		
35°	95°	24	51	32	60	63			

EV Premium MH/EV Premium M - Ventilation Performance										
External Static		Not Cunn	Net Supply Airflow		Gross Airflow					
Pres	Pressure				ply	Exhaust				
Pa	in. wg	L/s	CFM	L/s	CFM	L/s	CFM			
25	0.1	114	242	115	244	117	248			
50	0.2	110	233	112	237	113	239			
75	0.3	107	227	108	229	110	233			
100	0.4	103	218	104	220	106	225			
125	0.5	99	210	101	214	102	216			
150	0.6	96	203	97	206	98	208			
175	0.7	92	195	93	197	94	199			
200	0.8	88	186	89	189	90	191			
225	0.9	85	180	86	182	86	182			
250	1	81	172	82	174	82	174			

EV Premium MH/EV Premium M - Energy Performance									
Supply Temperature		Net Airflow		Average	Sensible Recovery	Adjusted Sensible	Net		
С	F	L/s	СҒМ	Power Watts	Efficiency %	Recovery Efficiency %	Moisture Transfer %		
Heating									
0°	32°	24	51	19	81	84	69		
0°	32°	48	102	40	73	76	55		
0°	32°	71	150	81	68	71	46		
0°	32°	96	203	177	62	68	40		
Cooling					Total Recovery Efficiency %		tal Recovery ncy %		
35°	95°	24	51	20	77	79			

EV Premium LH/EV Premium L - Ventilation Performance										
External Static		Not Cunn	Net Supply Airflow		Gross Airflow					
Pres	Pressure				Supply		Exhaust			
Pa	in. wg	L/s	CFM	L/s	CFM	L/s	CFM			
100	0.4	131	278	132	280	132	280			
125	0.5	126	267	127	269	126	267			
150	0.6	121	256	122	259	121	256			
175	0.7	115	244	116	246	115	244			
200	0.8	110	233	111	235	110	233			
225	0.9	105	222	105	222	104	220			
250	1	99	210	100	212	98	208			

	EV Premium LH/EV Premium L - Energy Performance										
	Supply Temperature		Net Airflow		Sensible Recovery	Adjusted Sensible	Net				
C	F	L/s	CFM	Power Watts	Efficiency %	Recovery Efficiency %	Moisture Transfer %				
	Heating										
0°	32°	28	59	21	88	90	77				
0°	32°	57	121	37	81	83	69				
0°	32°	95	201	114	74	77	60				
0°	32°	107	227	171	71	76	56				
		Cooling)		Total Recovery Efficiency %		tal Recovery ency %				
35°	95°	29	61	20	76	77					



INDOOR AIR QUALITY MATTERS

- Deficient IAQ is an EPA top-five health risk
- People spend 90% of their time indoors
- Indoor air can be 2–5 times and up to 100 times more polluted than outdoor air

BENEFITS OF INCREASED VENTILATION











TECHNICAL/APPLICATIONS SUPPORT

The goal of our technical-support team is to provide the BEST CUSTOMER SERVICE in the HVAC industry. You can count on our knowledgeable and seasoned staff for all your technical, application and service needs, and we'll respond quickly and effectively to answer any of your questions.

CONTACT RENEWAIRE



RenewaireSupport@renewaire.com







TO PLACE AN ORDER:

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RenewaireOrders@renewaire.com



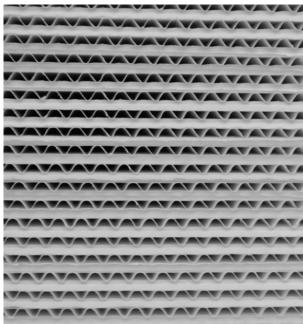
















RENEWAIRE EVERYWHERE

RenewAire ERVs can be applied everywhere across all commercial, educational, institutional, light industrial and residential buildings. Our technology excels in every geographic region, every climate and every size project.







