



**SL, BR, GR & EV SERIES**  
SINGLE/MULTI-FAMILY ERV CATALOG

**JUNE 2022**

RENEWAIRE.COM | 800.627.4499

# BECAUSE INDOOR AIR QUALITY MATTERS

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, CO<sub>2</sub>, 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.



## 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 CO<sub>2</sub>—a constituent of exhaled breath—negatively impacts thinking and decision-making at levels commonly found indoors.



### REDUCED PRODUCTIVITY

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

## ABOUT RENEWAIRE

For over 35 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, static-plate 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](http://renewaire.com).



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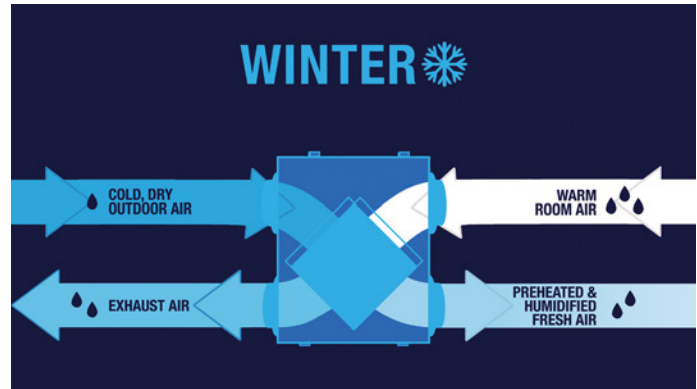
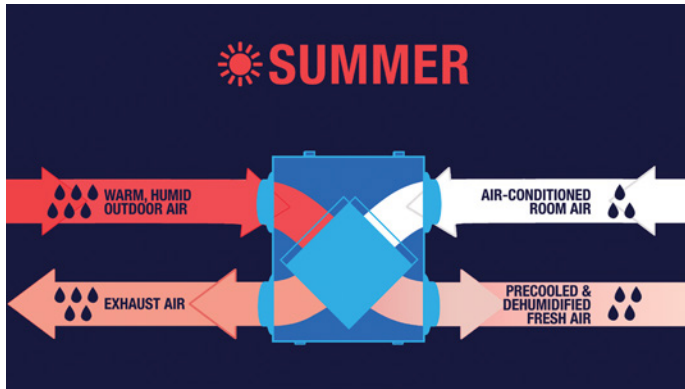
## GR SERIES—Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
GR90	Contractor-Grade, Four-Duct Connection Field Wired to Terminal Block	40–110 CFM	27

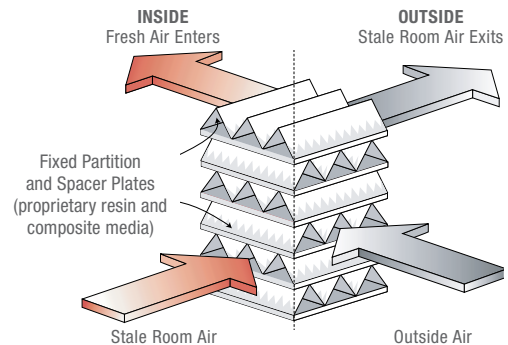
# RENEWAIRE ERVs

## 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, two-year warranty for commercial products and a 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
- ♦ 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:
  - ♦ UL
  - ♦ cUL
  - ♦ ETL
  - ♦ HVI
  - ♦ AHRI





# SL 75H

INDOOR UNIT

**NEW**

## 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

**Filters:**  
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.

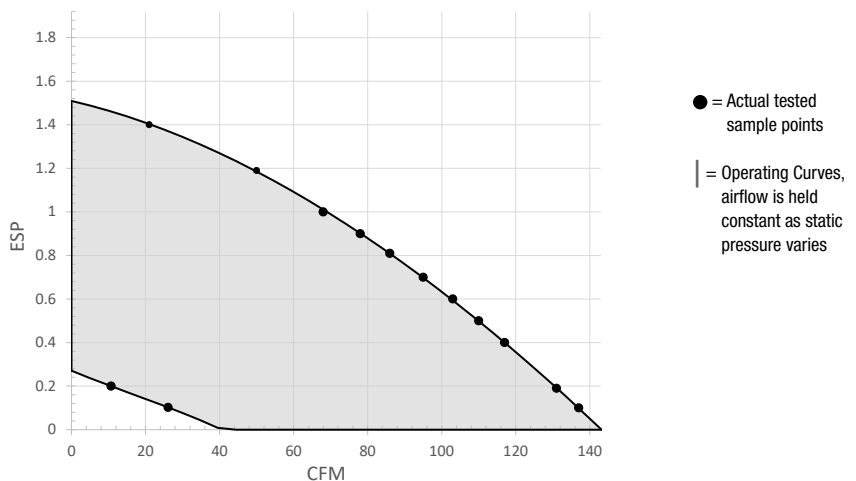
**Motor(s):**  
Qty. 2, 120V EC motorized impellers

**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 galvalume  
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); designed for indoor ductwork installation only

### EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
138	0.1	135
131	0.2	134
125	0.3	133
117	0.4	132
110	0.5	131
102	0.6	129
95	0.7	126
87	0.8	123
78	0.9	119
68	1.0	114
49	1.2	102
34	1.4	81
<b>Min. Speed</b>		
26	0.1	11
11	0.2	9

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.



### CORE PERFORMANCE

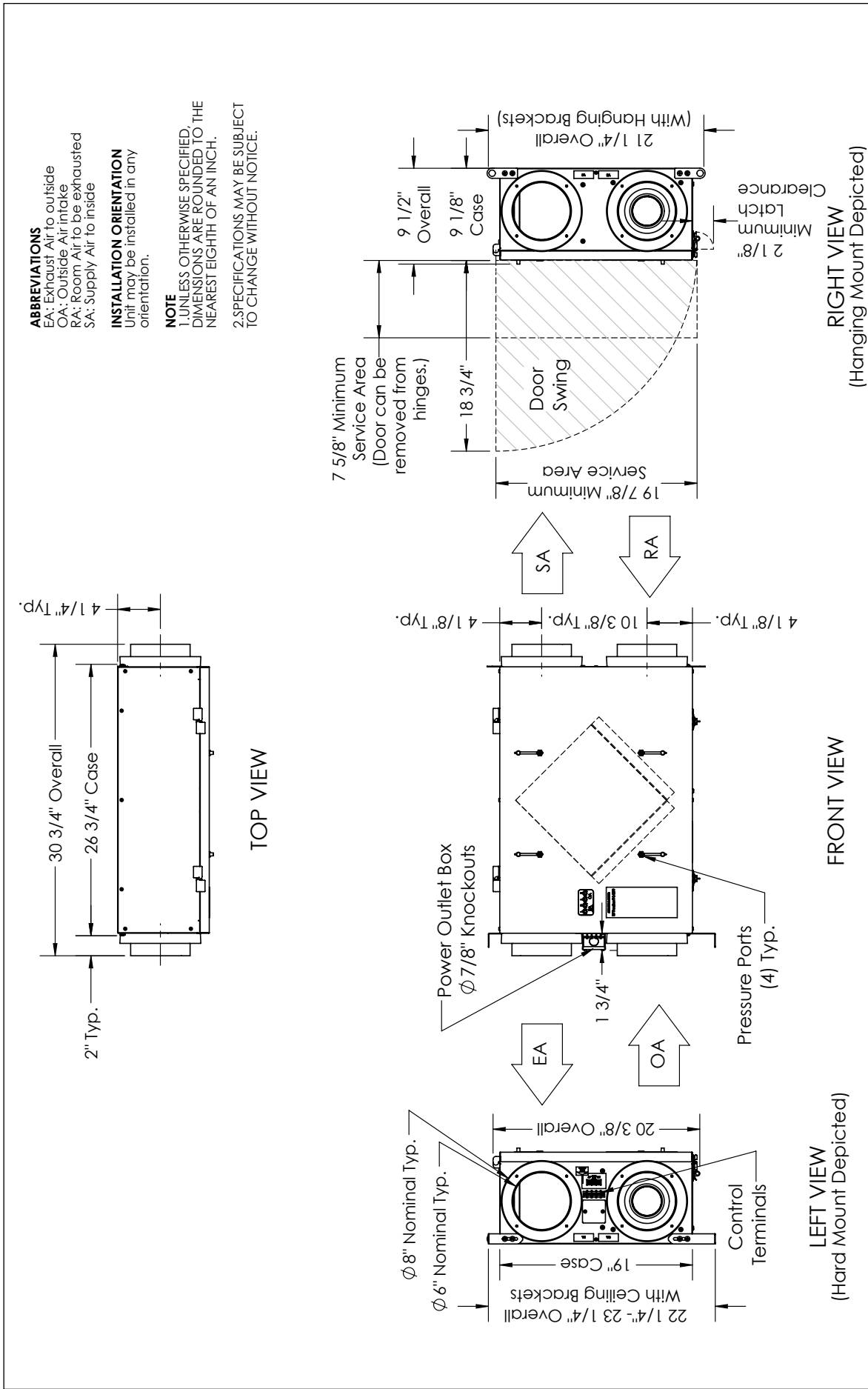
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
138	62	54/36
131	64	55/38
125	65	57/40
117	66	59/42
110	68	60/44
102	69	62/46
95	71	64/48
87	72	66/51
78	74	68/53
68	76	70/56
49	79	75/61
34	82	78/66
<b>Min. Speed</b>		
26	84	80/68
11	87	83/72

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

### ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
53	120	60	1	0.85	10	10

**SL75H** Energy Recovery Ventilator EC Motor



**ABBREVIATIONS**

- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- SA: Supply Air to inside

**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

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



**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.



# SL 75

INDOOR UNIT

**NEW**

## 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:** 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); designed for indoor ductwork installation only

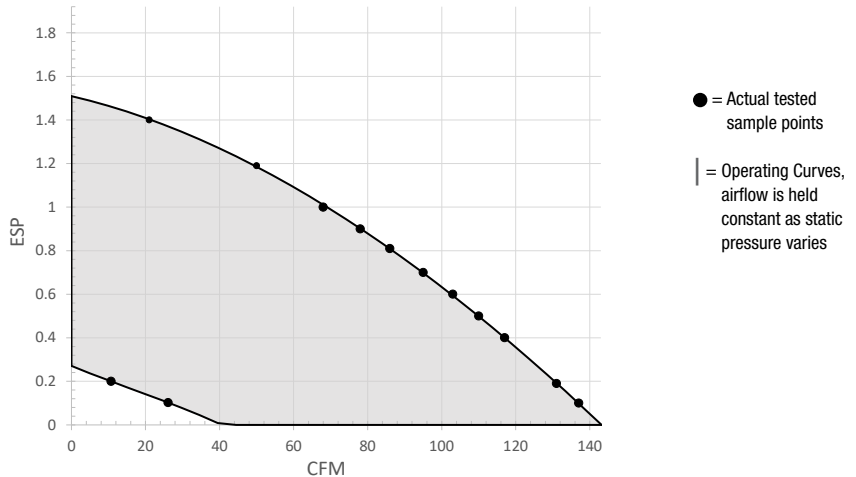
### EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
138	0.1	135
131	0.2	134
125	0.3	133
117	0.4	132
110	0.5	131
102	0.6	129
95	0.7	126
87	0.8	123
78	0.9	119
68	1.0	114
49	1.2	102
34	1.4	81
<b>Min. Speed</b>		
26	0.1	11
11	0.2	9

**Note:** Watts is for the entire unit.

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

**Note:** Refer to CORES for specific operating point electrical data.



### CORE PERFORMANCE

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
138	63	54/36
131	64	55/38
125	65	57/40
117	67	59/42
110	68	60/44
102	69	62/46
95	70	64/48
87	72	66/51
78	73	68/53
68	75	70/56
49	78	75/61
34	82	78/66
<b>Min. Speed</b>		
26	84	80/68
11	87	83/72

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

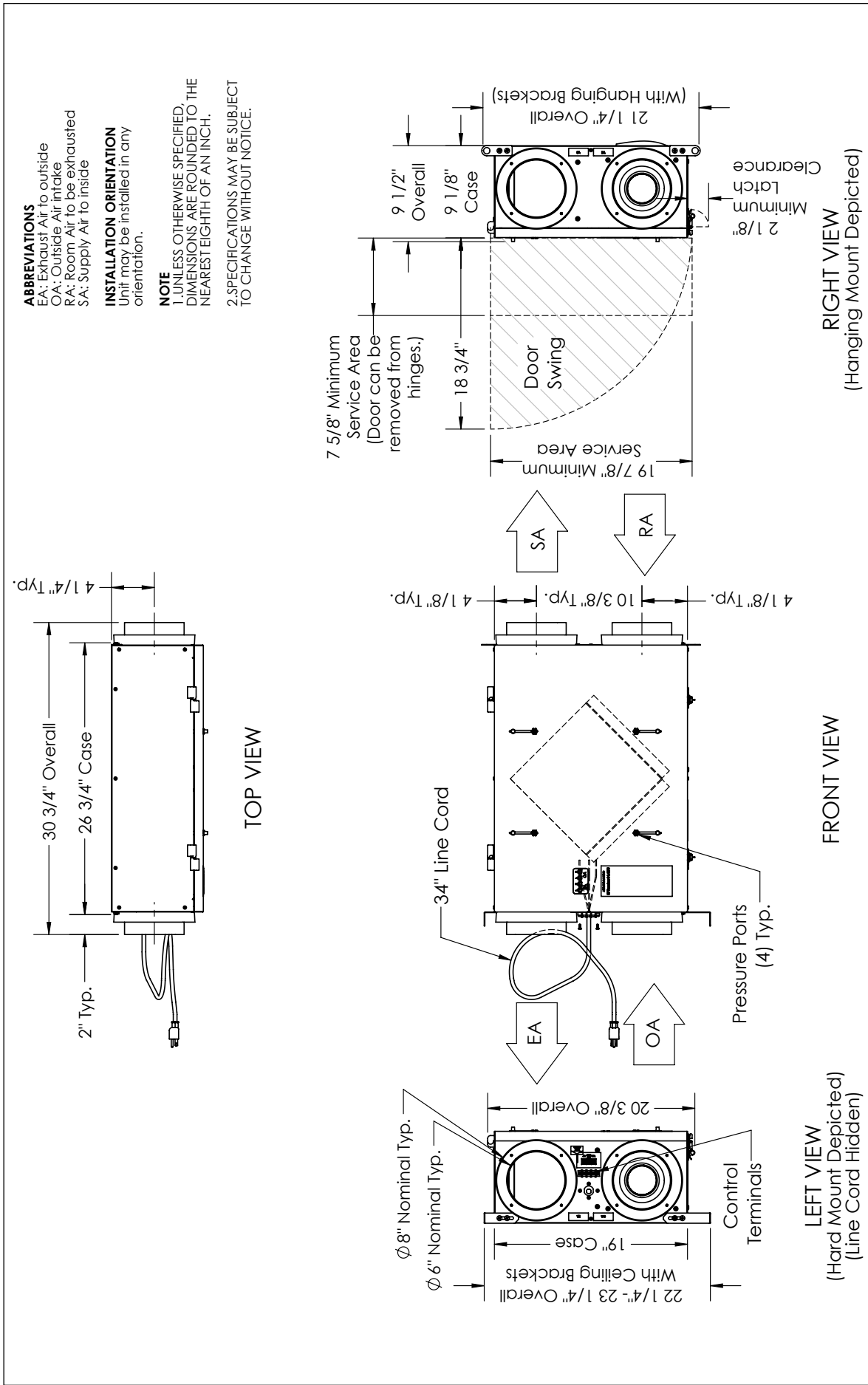
### ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
53	120	60	1	0.85	10	10





**SL75** Energy Recovery Ventilator EC Motor



**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.



**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. RA/OA airstream can be switched with OA/SA airstream.



# BR 70

**INDOOR UNIT**  
Duct Mounted or Thru-the-Wall



## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 40–70 CFM

**Unit is Tested to CSA C439 Protocol:**  
Using one L-30-G5 Core

**Standard Features:**  
White painted cabinet  
Line-cord power supply  
Built-in control  
Unit may be mounted in any orientation  
Cross-core differential pressure ports

**Control:**  
Built-in proportional runtime control and switched terminals for furnace/AC interconnect

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

**Unit Weight:** 38 lbs.

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

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**Accessories:**  
Backdraft damper: 6", 8"  
Automatic balancing damper: 4", 5", 6"  
Louvered wall vent 6": white, brown  
Exterior thru-the-wall installation kit  
Duct collar kit (two collars)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–3 kW);  
designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.08	120	60	Single	94 @ 69 CFM	1.0

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
46	0.40
59	0.30
73	0.20
86	0.10

### CORE PERFORMANCE

Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
46	80	75/62
59	77	72/58
73	75	69/54
86	72	66/51

**Note:** These are core-only ratings and are not HVI certified.  
Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). See performance ratings per CSA C439 on pg. 47 of Single/Multi-Family Catalog.

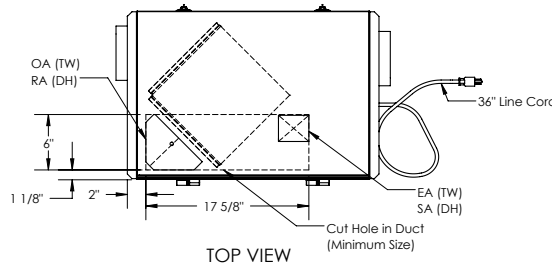
### UNIT DIMENSIONS



**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.



**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. If duct-mounted, airstreams cannot be switched. If mounted with exterior Thru-the-wall installation kit, the RA/EA airstreams are switched with the OA/SA airstreams. If four ducts are connected using duct collar kit, airstreams may be switched.

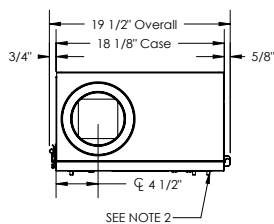


**ABBREVIATIONS**

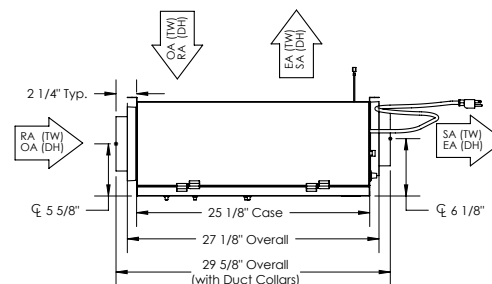
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside  
TW: Thru Wall  
DH: Duct Hung

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

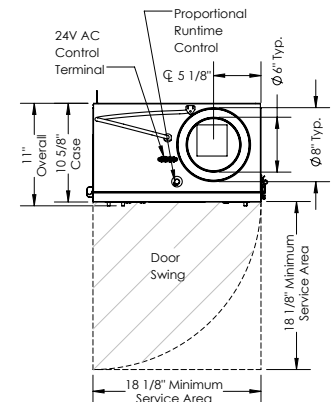
- NOTE**
- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
  - PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.
  - SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



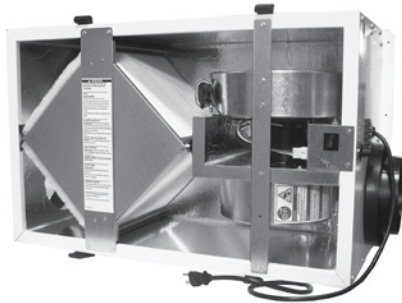
RIGHT VIEW

# BR 130

## Energy Recovery Ventilator



**INDOOR UNIT**  
Duct Mounted or Thru-the-Wall



### SPECIFICATIONS

**Ventilation Type:** Static plate, heat and humidity transfer  
**Typical Airflow Range:** 50–140 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  
Built-in control  
Unit may be mounted in any orientation  
Cross-core differential pressure ports

**Control:**  
Built-in proportional runtime control and switched terminals for furnace/AC interconnect

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

**Unit Weight:** 48 lbs.

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

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**Accessories:**  
Backdraft damper: 6", 8"  
Automatic balancing damper: 4", 5", 6"  
Louvered wall vent 6": white, brown  
Exterior thru-the-wall installation kit  
Duct collar kit (two collars)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–5 kW);  
designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.1	120	60	Single	121 @ 124 CFM	1.3

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
51	0.70
68	0.60
93	0.50
112	0.40
131	0.30
140	0.20
148	0.10

### CORE PERFORMANCE

Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
51	82	78/65
68	80	75/61
93	76	71/56
112	74	68/53
131	71	65/49
140	70	63/47
148	69	62/46

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

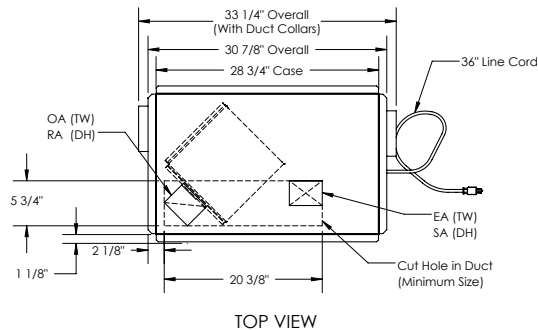
### UNIT DIMENSIONS



**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.



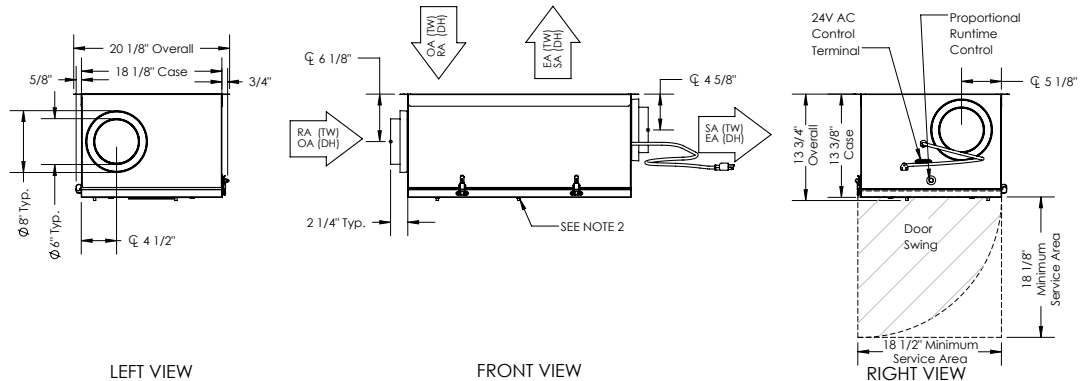
**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. If duct-mounted, airstreams cannot be switched. If mounted with exterior Thru-the-wall installation kit, the RA/OA airstreams are switched with the OA/OA airstreams. If four ducts are connected using duct collar kit, airstreams may be switched.



**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside  
TW: Thru Wall  
DH: Duct Hung

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

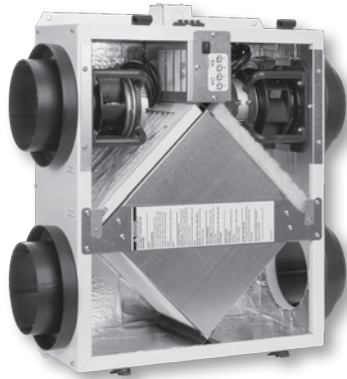
**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
2. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.  
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



# EV PREMIUM SH

INDOOR UNIT **NEW**

## 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

**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  
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 galvalume  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvalume  
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

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
138	0.1	137
131	0.2	136
125	0.3	134
119	0.4	133
112	0.5	133
106	0.6	130
97	0.7	128
91	0.8	124
83	0.9	121
74	1.0	116
56	1.2	98
35	1.4	85
<b>Min. Speed</b>		
28	0.1	13
13	0.2	12

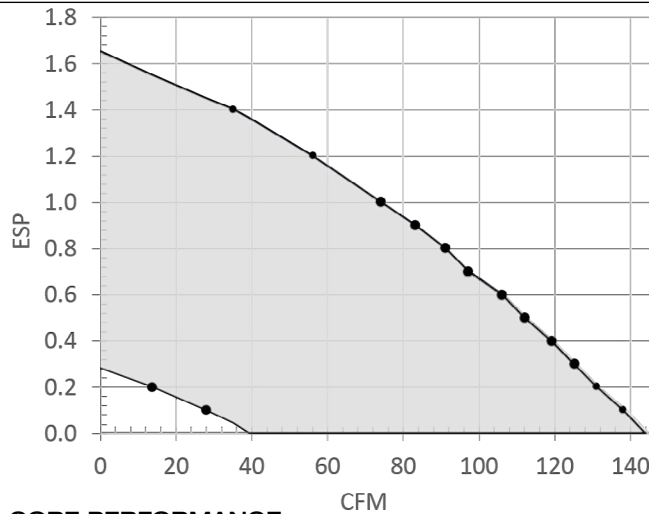
**Note:** Watts is for the entire unit.

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

**Note:** Refer to CORES for specific operating point electrical data.

### ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
53	120	60	1	0.85	10	10



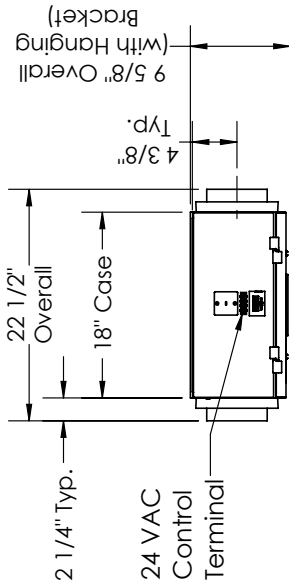
### CORE PERFORMANCE

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
138	62	58/36
131	64	59/38
125	65	61/40
119	66	62/41
112	67	63/43
106	68	65/45
97	70	67/48
91	71	68/49
83	73	70/51
74	75	71/54
56	78	75/59
35	82	80/65
<b>Min. Speed</b>		
28	83	81/67
13	86	85/71

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.



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

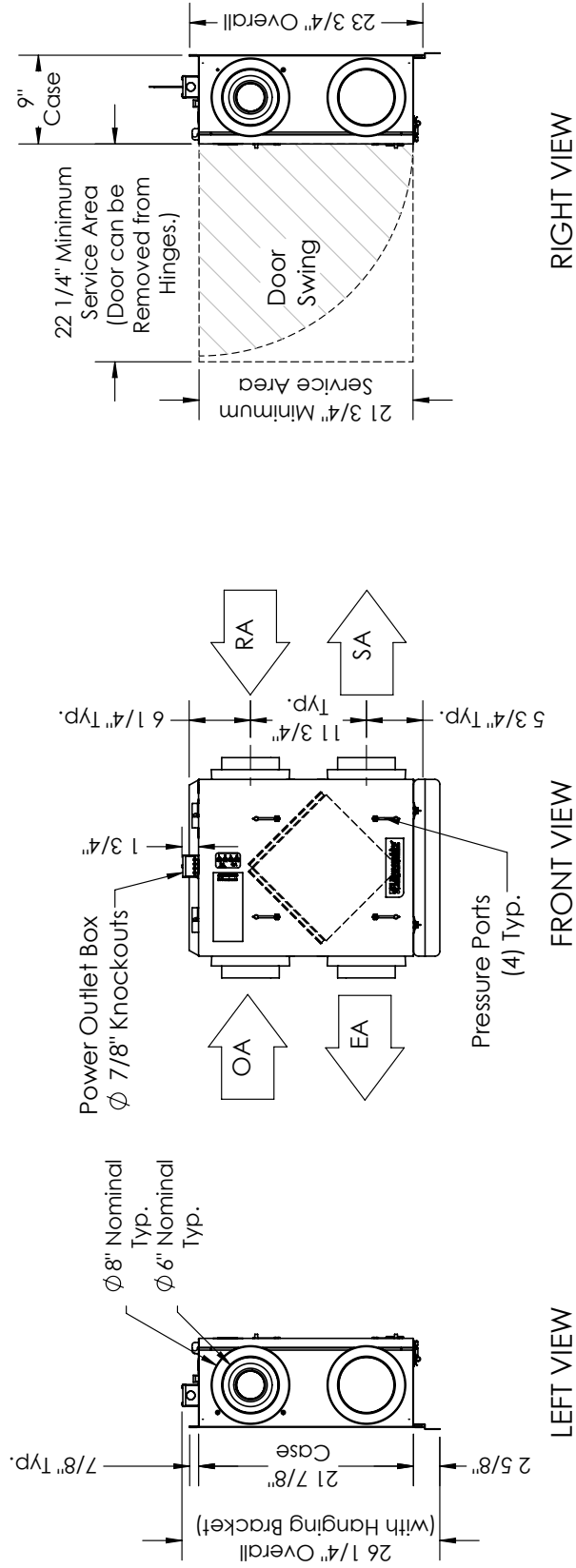


**ABBREVIATIONS**  
 EA: Exhaust Air to outside  
 OA: Outside Air intake  
 RA: Room Air to be exhausted  
 SA: Supply Air to inside

**INSTALLATION ORIENTATION**  
 Unit may be installed in any orientation.

**NOTE**  
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

TOP VIEW



**AIRFLOW ORIENTATION**  
 Available as shown in dimension drawing.

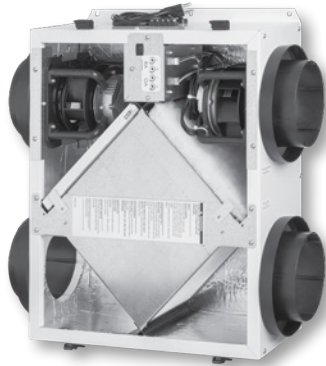
**UNIT MOUNTING & APPLICATION**  
 Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

# EV PREMIUM S

## Energy Recovery Ventilator EC Motor



### INDOOR UNIT



### 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  
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 galvalume  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvalume  
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

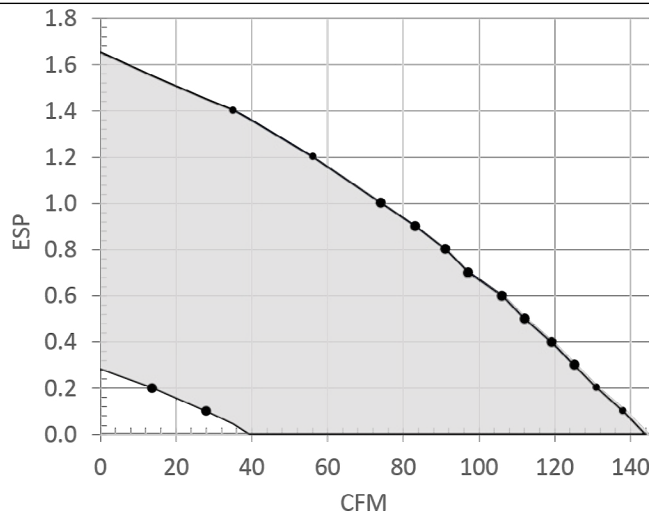
### EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
138	0.1	137
131	0.2	136
125	0.3	134
119	0.4	133
112	0.5	133
106	0.6	130
97	0.7	128
91	0.8	124
83	0.9	121
74	1.0	116
56	1.2	98
35	1.4	85
<b>Min. Speed</b>		
28	0.1	13
13	0.2	12

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

### ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
53	120	60	1	0.85	10	10



### CORE PERFORMANCE

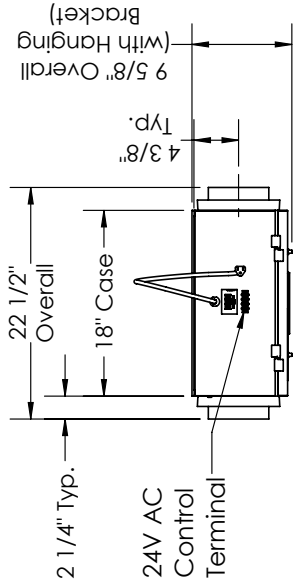
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
138	62	58/36
131	64	59/38
125	65	61/40
119	66	62/41
112	67	63/43
106	68	65/45
97	70	67/48
91	71	68/49
83	73	70/51
74	75	71/54
56	78	75/59
35	82	80/65
<b>Min. Speed</b>		
28	83	81/67
13	86	85/71

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

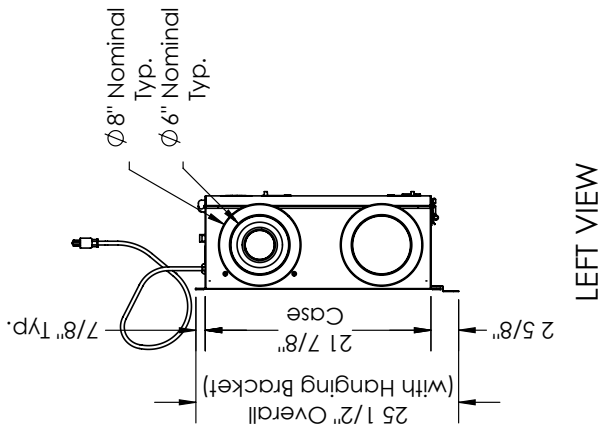




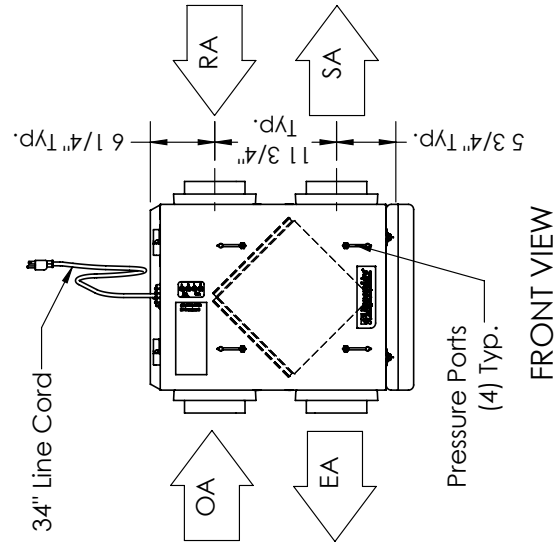
# EV Premium S Energy Recovery Ventilator EC Motor



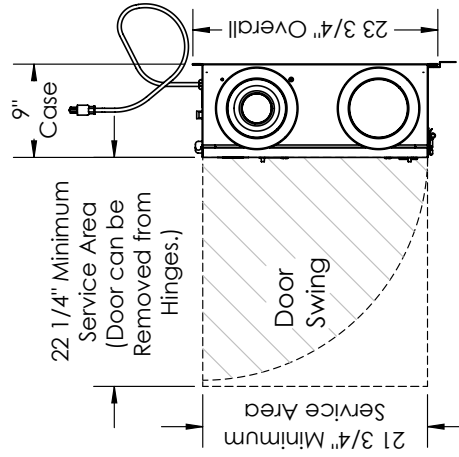
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

**ABBREVIATIONS**

- EA: Exhaust Air to outside
- OA: Outside Air Intake
- RA: Room Air to be exhausted
- SA: Supply Air to inside

**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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



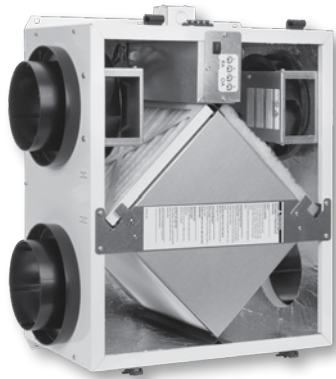
Energy Recovery Ventilator  
EC Motor



INDOOR UNIT

NEW

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

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

**Unit Weight:** 36 lbs.

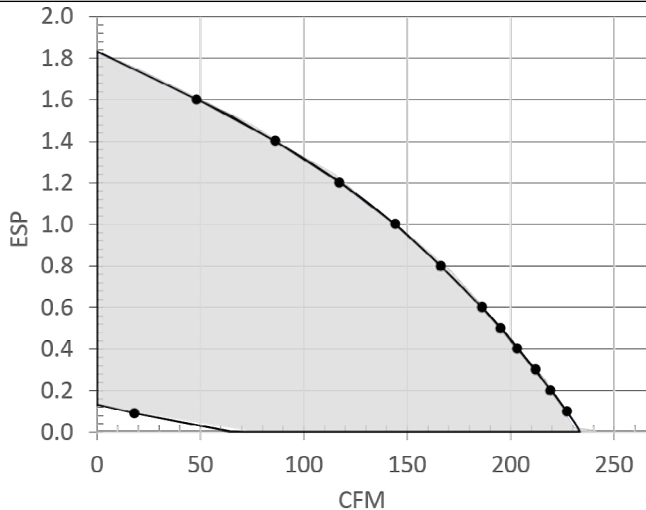
**Max. Shipping Dimensions & Weight (in carton):**  
32" L x 22" W x 18" H  
48 lbs.

**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 galvalume  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvalume  
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

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
233	0.1	179
225	0.2	176
216	0.3	177
210	0.4	174
201	0.5	173
193	0.6	172
184	0.7	170
176	0.8	168
163	0.9	166
150	1.0	162
117	1.2	148
86	1.4	134
48	1.6	112
<b>Min. Speed</b>		
18	0.1	16



CORE PERFORMANCE

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
233	58	49/26
225	59	50/27
216	60	51/28
210	61	52/30
201	62	53/32
193	63	54/34
184	64	56/36
176	66	57/38
163	67	59/40
150	69	61/42
117	73	67/49
86	77	72/56
48	82	78/63
<b>Min. Speed</b>		
18	86	84/71

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

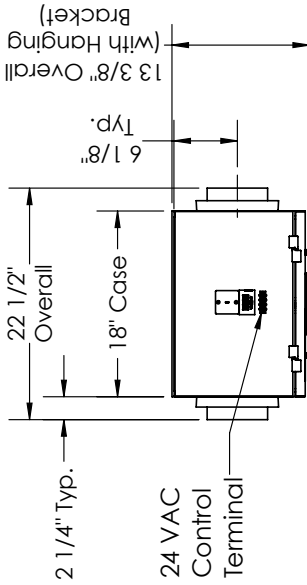
**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10



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

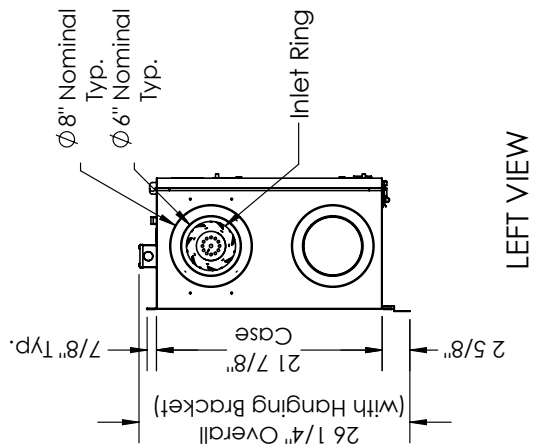


TOP VIEW

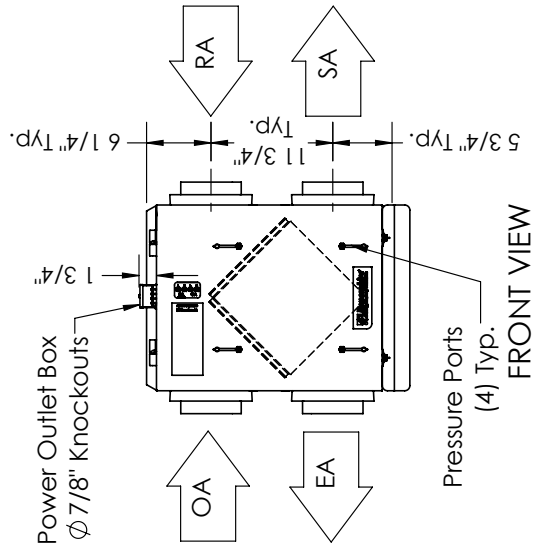
**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air Intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

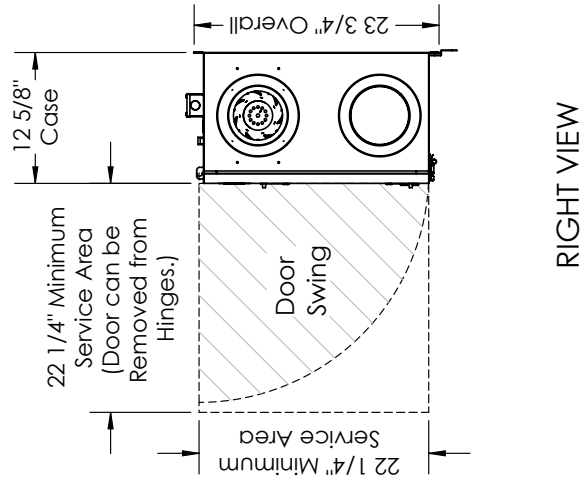
**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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



**Energy Recovery Ventilator**  
EC Motor



**INDOOR UNIT**



**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

**Filters:**  
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.

**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 galvalume  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvalume  
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

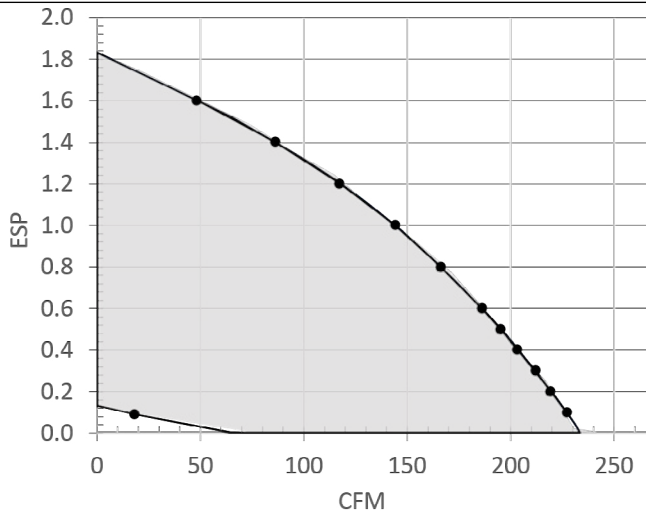
**EC MOTOR OPERATING RANGE**

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
233	0.1	179
225	0.2	176
216	0.3	177
210	0.4	174
201	0.5	173
193	0.6	172
184	0.7	170
176	0.8	168
163	0.9	166
150	1.0	162
117	1.2	148
86	1.4	134
48	1.6	112
<b>Min. Speed</b>		
18	0.1	16

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

**ELECTRICAL DATA**

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10



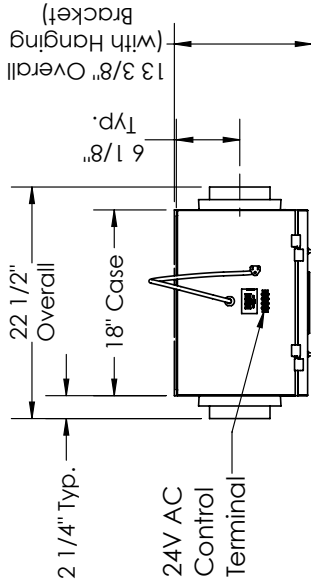
**CORE PERFORMANCE**

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
233	58	49/26
225	59	50/27
216	60	51/28
210	61	52/30
201	62	53/32
193	63	54/34
184	64	56/36
176	66	57/38
163	67	59/40
150	69	61/42
117	73	67/49
86	77	72/56
48	82	78/63
<b>Min. Speed</b>		
18	86	84/71

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.



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



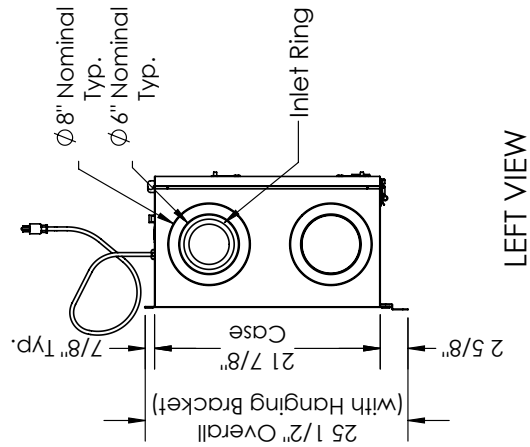
TOP VIEW

**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside

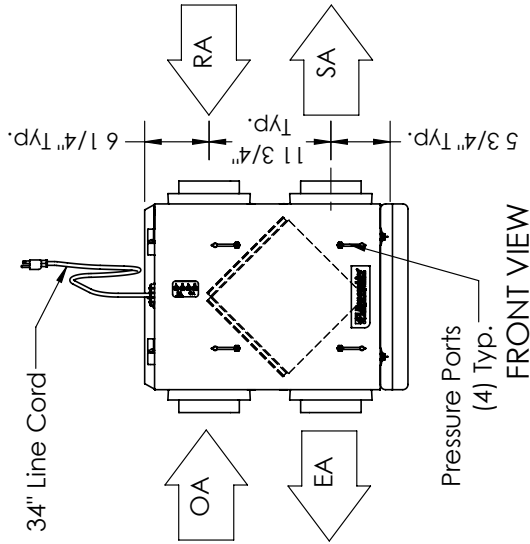
**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

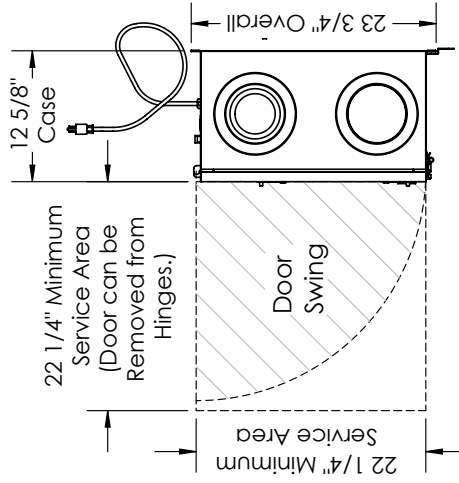
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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

# EV PREMIUM LH

INDOOR UNIT **NEW**

## 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  
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

**Filters:**  
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 galvalneal  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvalneal  
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

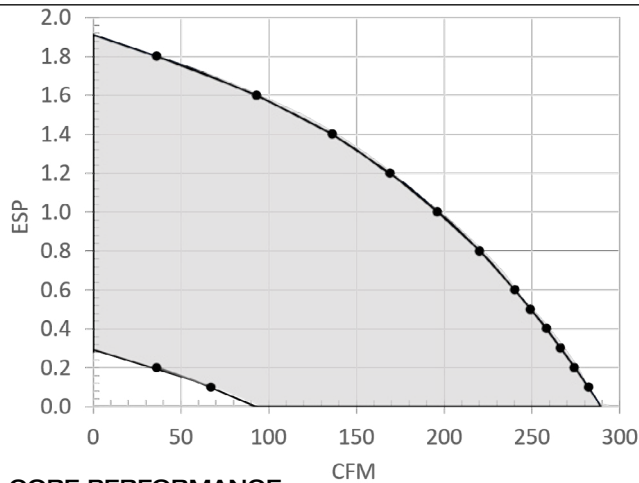
### EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
288	0.1	177
280	0.2	178
269	0.3	179
261	0.4	180
252	0.5	180
244	0.6	180
233	0.7	179
222	0.8	179
212	0.9	178
199	1.0	176
170	1.2	170
136	1.4	160
93	1.6	142
36	1.8	110
<b>Min. Speed</b>		
67	0.1	19
36	0.2	17

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

### ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10



### CORE PERFORMANCE

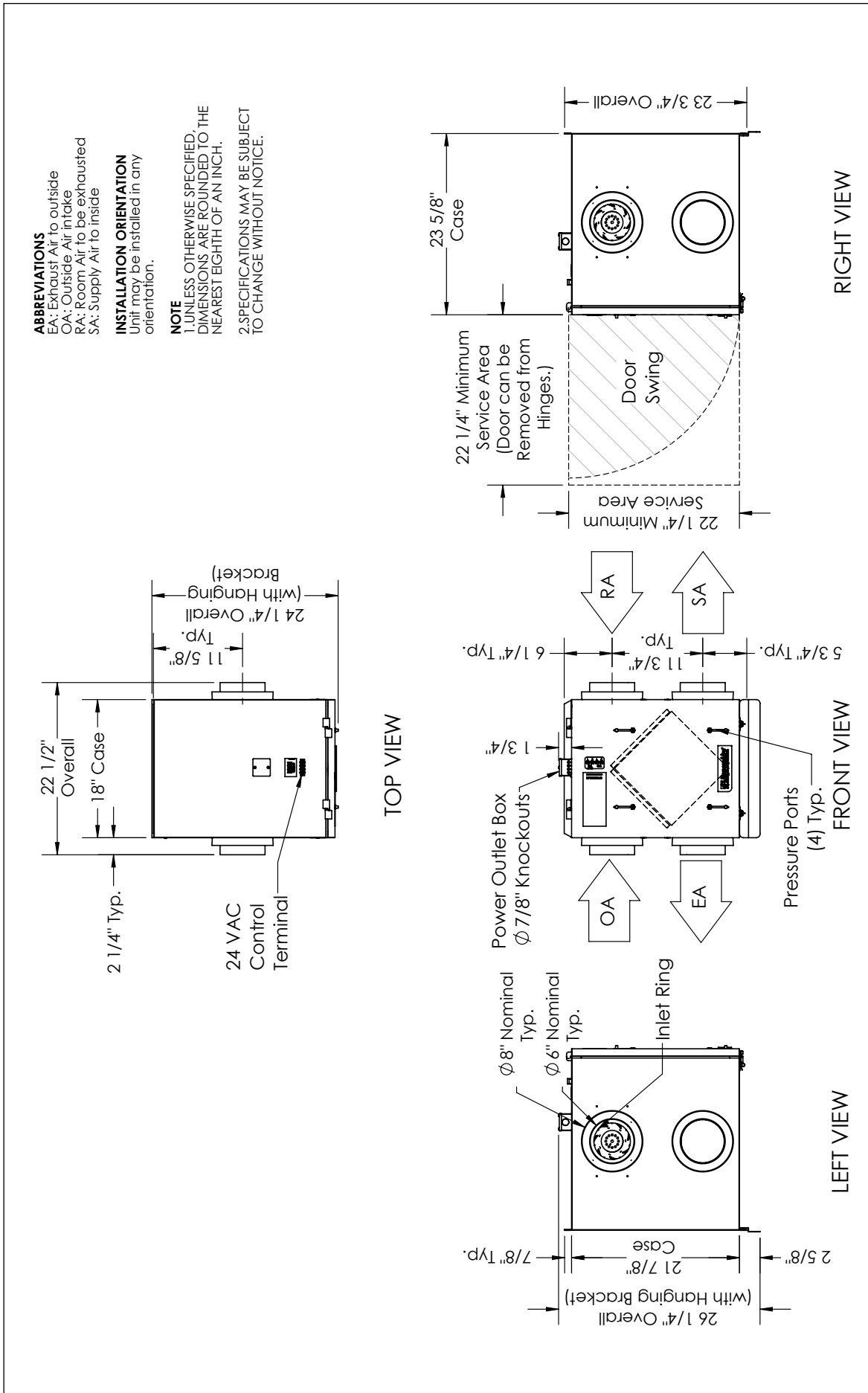
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
288	71	63/45
280	71	64/46
269	72	65/47
261	72	65/48
252	73	66/49
244	73	67/50
233	74	68/51
222	75	69/52
212	75	69/53
199	76	70/54
170	78	73/57
136	80	75/60
93	83	79/64
36	86	83/69
<b>Min. Speed</b>		
67	85	81/67
36	86	83/69

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.





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



**AIRFLOW ORIENTATION**  
 Available as shown in dimension drawing.

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



# Energy Recovery Ventilator EC Motor



**INDOOR UNIT**



**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

**Controls:**  
Onboard digital controller with independent variable speeds

**Filters:**  
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 galvanized  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvanized  
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

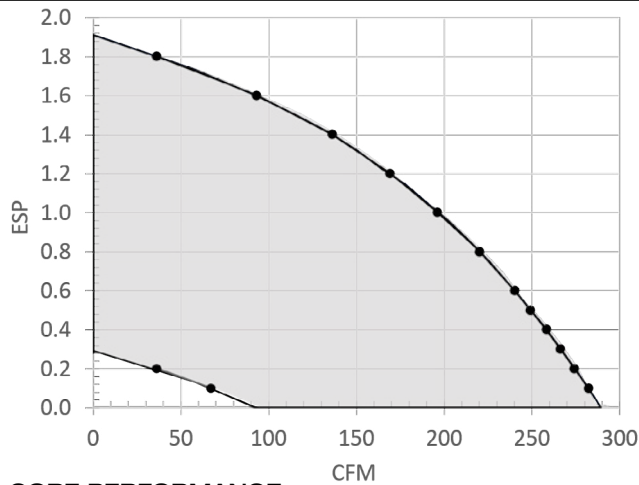
**EC MOTOR OPERATING RANGE**

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
<b>Max. Speed</b>		
288	0.1	177
280	0.2	178
269	0.3	179
261	0.4	180
252	0.5	180
244	0.6	180
233	0.7	179
222	0.8	179
212	0.9	178
199	1.0	176
170	1.2	170
136	1.4	160
93	1.6	142
36	1.8	110
<b>Min. Speed</b>		
67	0.1	19
36	0.2	17

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

**ELECTRICAL DATA**

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10



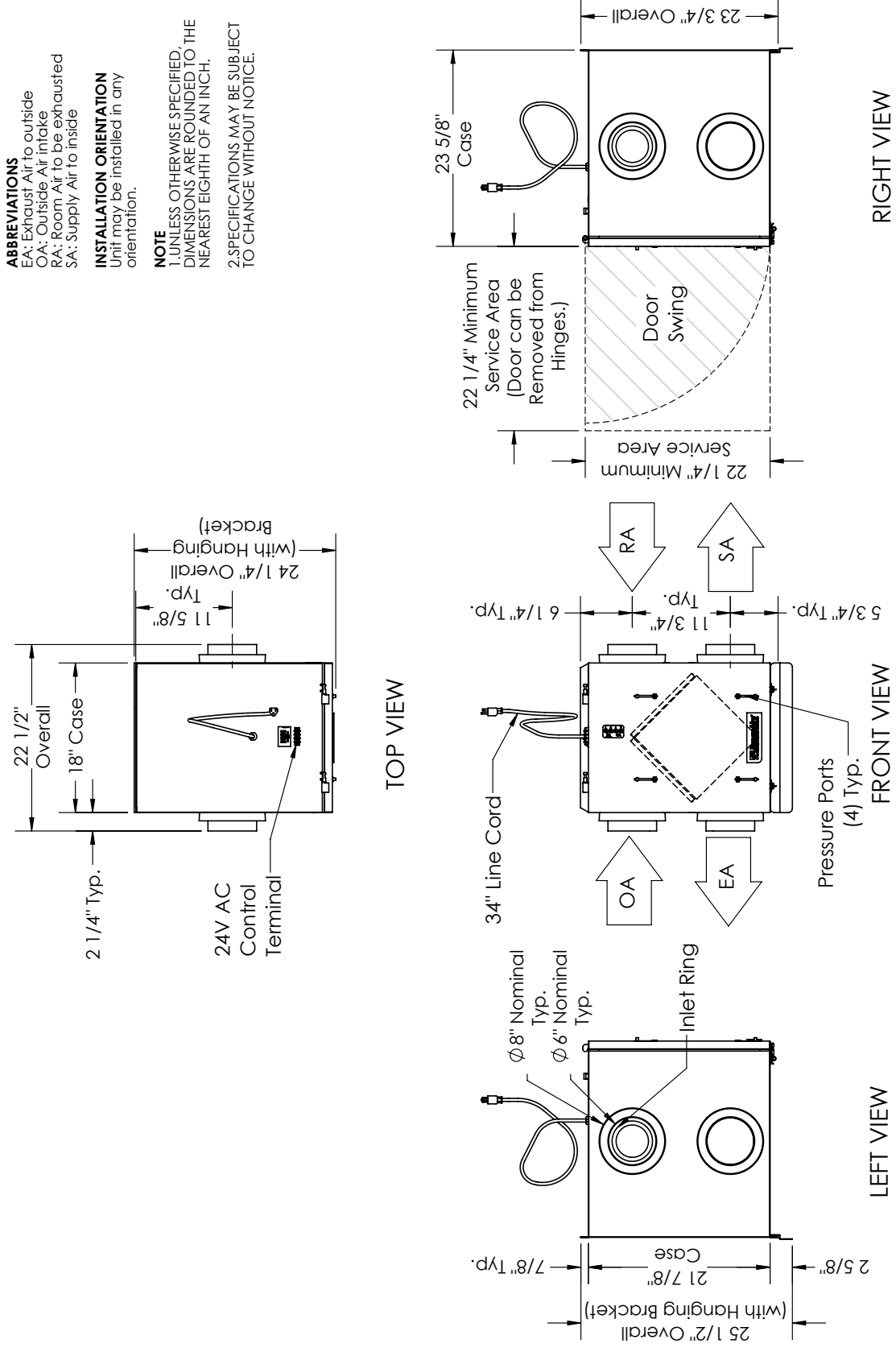
**CORE PERFORMANCE**

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>		
288	71	63/45
280	71	64/46
269	72	65/47
261	72	65/48
252	73	66/49
244	73	67/50
233	74	68/51
222	75	69/52
212	75	69/53
199	76	70/54
170	78	73/57
136	80	75/60
93	83	79/64
36	86	83/69
<b>Min. Speed</b>		
67	85	81/67
36	86	83/69

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.



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



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



**AIRFLOW ORIENTATION**  
 Available as shown in dimension drawing.



# EV 90

INDOOR UNIT

## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 40–110 CFM

**Unit is HVI Tested/Certified per CSA C439**  
**Protocol:** Using one L-35-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

**Control:**  
Onboard 24VAC transformer/relay package

**Filters:**  
Total qty. 2, MERV 8, spun-polyester media:  
9 5/8" x 10 1/2" x 1"

**Unit Weight:** 36 lbs.

**Max. Shipping Dimensions & Weight (in carton):**  
29" L x 22" W x 15" H  
40 lbs.

**Motor(s):**  
Qty. 2, Standard motorized impeller blowers

**Accessories:**  
Backdraft damper: 6", 8"  
Automatic balancing damper: 4", 5", 6"  
Louvered wall vent 6": white, brown  
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)  
Percentage timer control (PTL)  
Push-button point-of-use controls (PBL), PTL req'd.  
Percentage timer control with furnace interlock (FM)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–3 kW);  
designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.03	120	60	Single	46 @ 90 CFM	0.35

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
36	0.60
53	0.50
68	0.40
81	0.30
93	0.20
108	0.10

### CORE PERFORMANCE

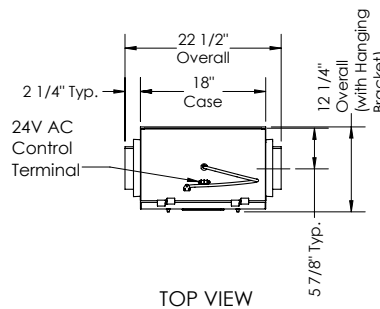
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
36	78	75/65
53	74	69/58
68	70	65/53
81	67	61/49
93	64	58/45
108	61	55/42

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

### UNIT DIMENSIONS

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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

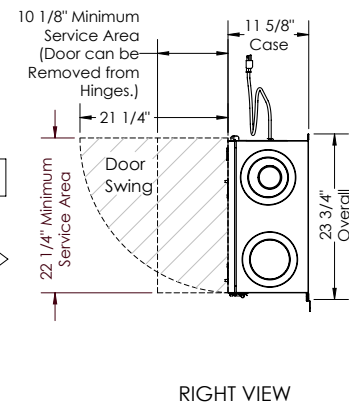
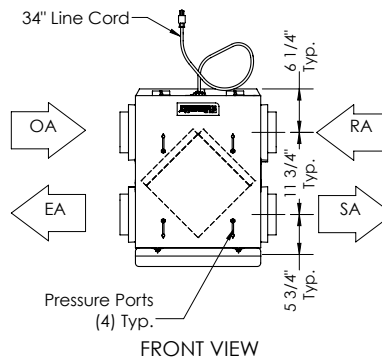
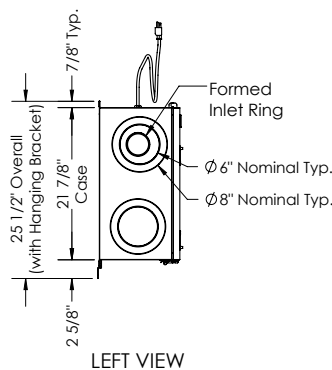


**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.





# EV 200

INDOOR UNIT

## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 100–200 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

**Controls:**  
Onboard 24VAC transformer/relay package

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

**Unit Weight:** 68 lbs.

**Max. Shipping Dimensions & Weight (on pallet):**  
34" L x 44" W x 34" H  
110 lbs.

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**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)  
Percentage timer control (PTL)  
Push-button point-of-use controls (PBL), PTL req'd.  
Percentage timer control with furnace interlock (FM)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–6 kW); designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.1	120	60	Single	157 @ 181 CFM	1.5

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
121	0.70
148	0.60
167	0.50
176	0.40
186	0.30
191	0.20
206	0.10

### CORE PERFORMANCE

Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
121	81	77/64
148	79	75/61
167	78	73/59
176	78	72/58
186	77	72/58
191	77	71/57
206	76	70/56

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 47 of Single/Multi-Family Catalog and at hvi.org.

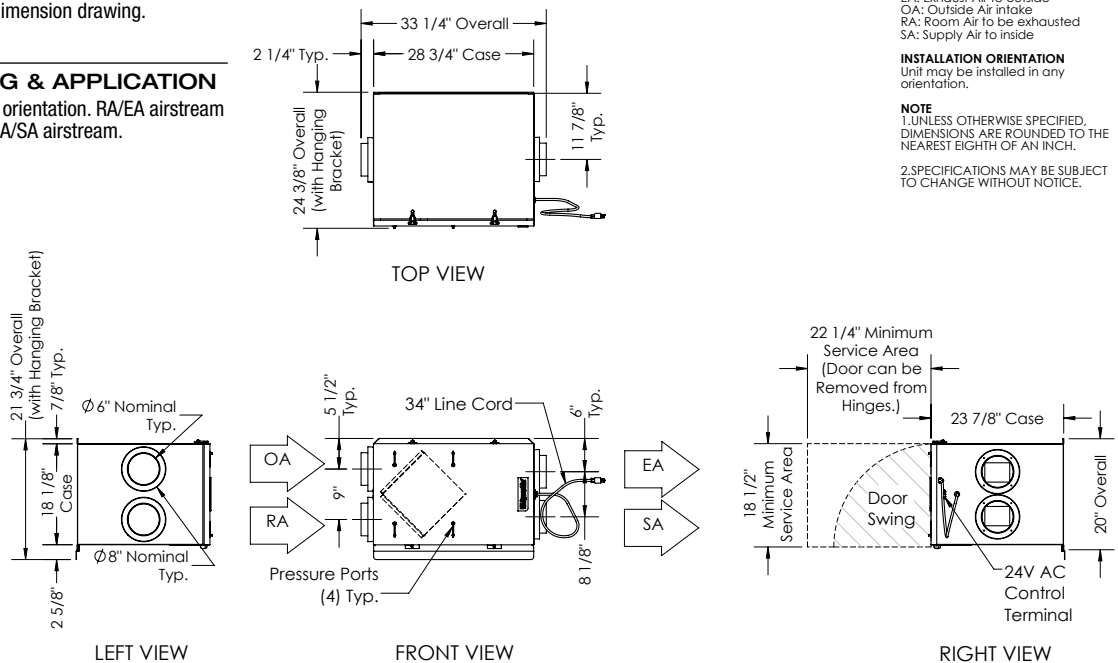
### UNIT DIMENSIONS



**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.



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





# EV 240

INDOOR UNIT

## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 100–240 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

**Controls:**  
Onboard 24VAC transformer/relay package

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

**Unit Weight:** 70 lbs.

**Max. Shipping Dimensions & Weight (on pallet):**  
34" L x 44" W x 34" H  
112 lbs.

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**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 galvanized  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvanized  
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)  
Percentage timer control (PTL)  
Push-button point-of-use controls (PBL), PTL req'd.  
Percentage timer control with furnace interlock (FM)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–8 kW); designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.2	120	60	Single	216 @ 236 CFM	3.3

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
170	0.80
195	0.70
214	0.60
229	0.50
242	0.40
250	0.30
256	0.20
265	0.10

### CORE PERFORMANCE

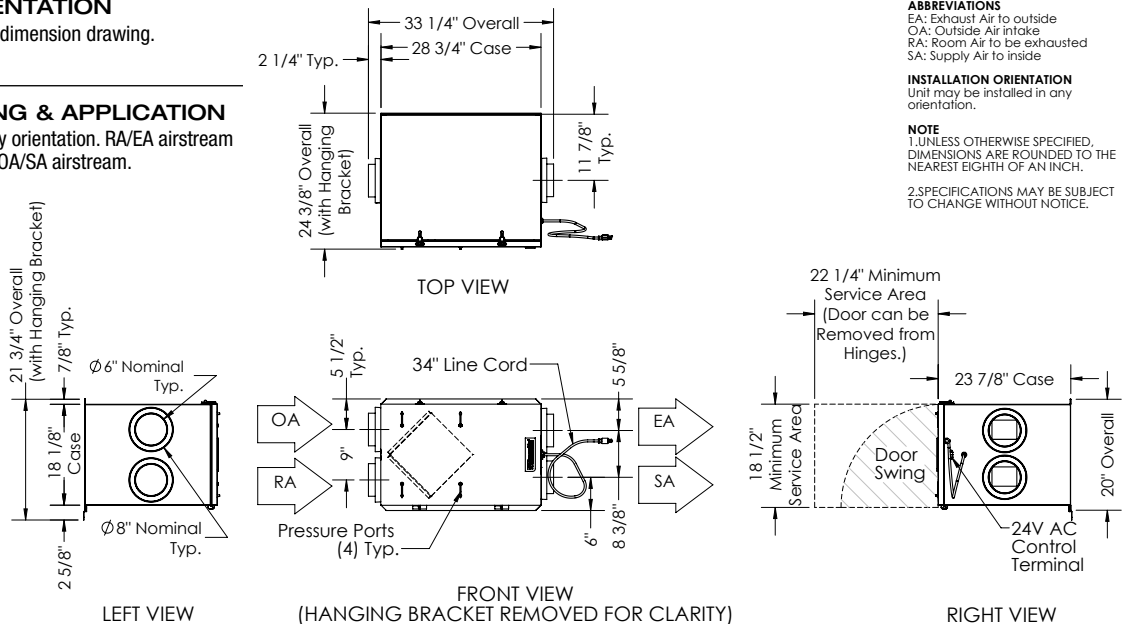
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
170	78	73/59
195	76	71/57
214	75	69/55
229	74	68/54
242	73	67/52
250	73	67/52
256	73	66/51
265	72	66/50

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 47 of Single/Multi-Family Catalog and at hvi.org.

### UNIT DIMENSIONS

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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



# EV 300

INDOOR UNIT

## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 150–300 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

**Controls:**  
Onboard 24VAC transformer/relay package

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

**Unit Weight:** 72 lbs.

**Max. Shipping Dimensions & Weight (on pallet):**  
34" L x 44" W x 34" H  
115 lbs.

**Motor(s):**  
Qty. 1, Double-shaft standard motor

**Accessories:**  
Backdraft damper: 8"  
Automatic balancing damper: 4", 5", 6"  
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)  
Percentage timer control (PTL)  
Push-button point-of-use controls (PBL), PTL req'd.  
Percentage timer control with furnace interlock (FM)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–10 kW); designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.2	120	60	Single	315 @ 297 CFM	3.3

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
170	1.0
191	0.9
214	0.8
256	0.7
278	0.6
295	0.5
311	0.4

### CORE PERFORMANCE

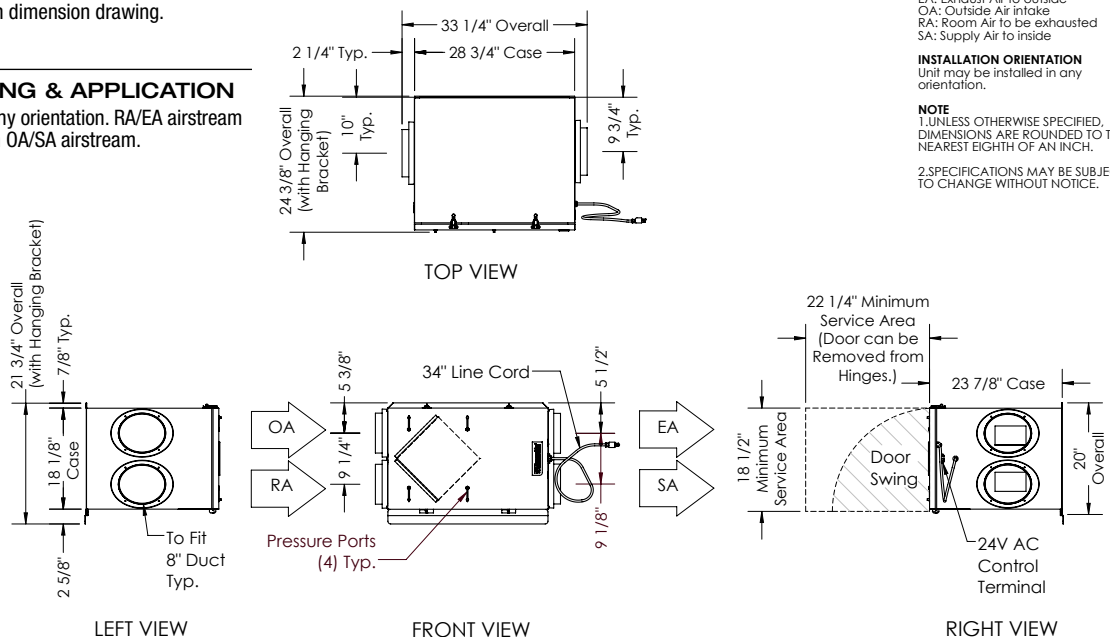
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
170	78	73/59
191	77	71/57
214	75	69/55
256	73	66/51
278	71	65/49
295	70	63/47
311	69	62/46

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 47 of Single/Multi-Family Catalog and at hvi.org.

### UNIT DIMENSIONS

**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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



# GR 90

INDOOR UNIT

## Energy Recovery Ventilator



### SPECIFICATIONS

**Ventilation Type:**  
Static plate, heat and humidity transfer

**Typical Airflow Range:** 40–110 CFM

**Unit is HVI Tested/Certified per CSA C439**  
**Protocol:** Using one L-35-G5 Core

**Standard Features:**  
Unpainted galvanized cabinet  
Field wiring to terminal block  
Unit may be mounted in any orientation  
Cross-core differential pressure ports

**Control:**  
Can use any switched line-voltage power supply (no low-voltage controls)

**Filters:**  
Total qty. 2, MERV 8, spun-polyester media:  
9 5/8" x 10 1/2" x 1"

**Unit Weight** 36 lbs.

**Max. Shipping Dimensions & Weight (in carton):**  
29" L x 22" W x 15" H  
40 lbs.

**Motor(s):**  
Qty. 2, Standard motorized impeller blowers

**Accessories:**  
Backdraft damper: 6", 8"  
Automatic balancing damper: 4", 5", 6"  
Louvered wall vent 6": white, brown  
120V line voltage Honeywell control  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–3 kW);  
designed for indoor ductwork installation only

### ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.03	120	60	Single	46 @ 90 CFM	0.35

### UNIT PERFORMANCE

Airflow CFM	ESP in H <sub>2</sub> O
36	0.60
53	0.50
68	0.40
81	0.30
93	0.20
108	0.10

### CORE PERFORMANCE

Airflow CFM	Temp EFF%	Total EFF% Winter/Summer
36	78	75/65
53	74	69/58
68	70	65/53
81	67	61/49
93	64	58/45
108	61	55/42

**Note:** These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

### UNIT DIMENSIONS

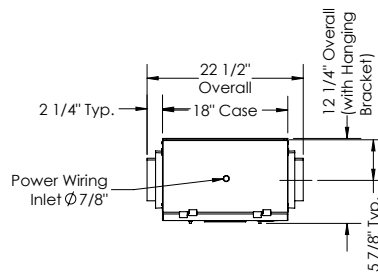
**AIRFLOW ORIENTATION**  
Available as shown in dimension drawing.

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

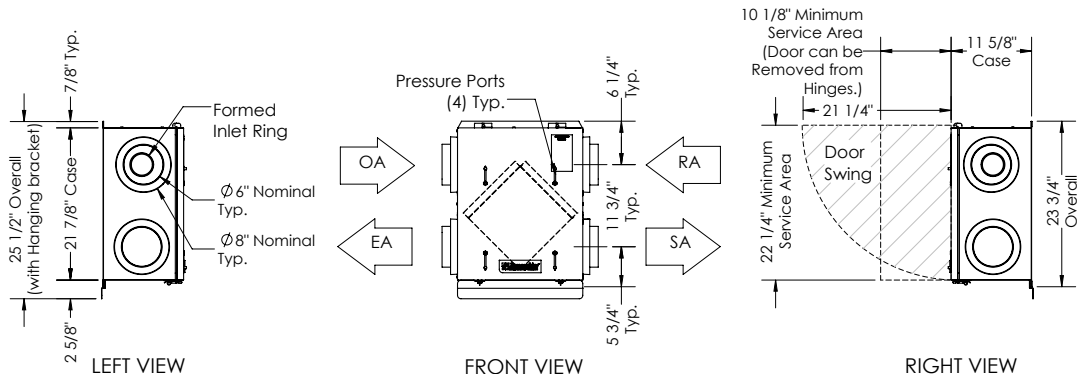
**ABBREVIATIONS**  
EA: Exhaust Air to outside  
OA: Outside Air Intake  
RA: Room Air to be exhausted  
SA: Supply Air to inside

**INSTALLATION ORIENTATION**  
Unit may be installed in any orientation.

**NOTE**  
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.  
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



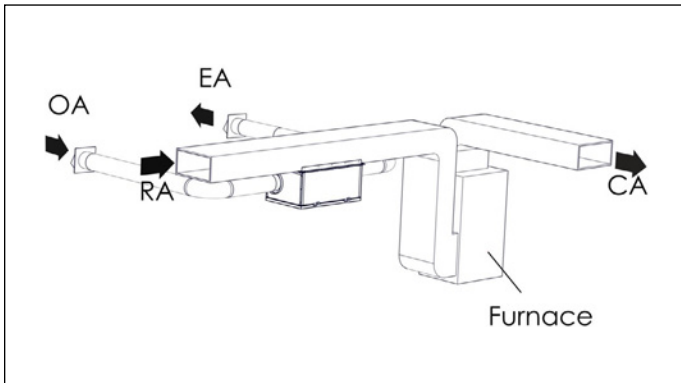
TOP VIEW



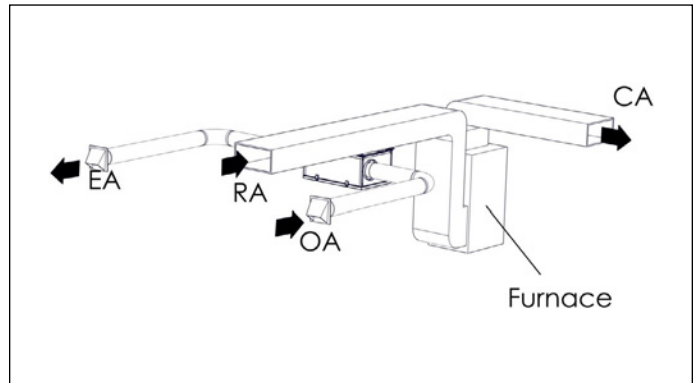
# APPLICATIONS — COMMON INSTALLATION APPROACHES

## BR Series (BR70 and BR130)

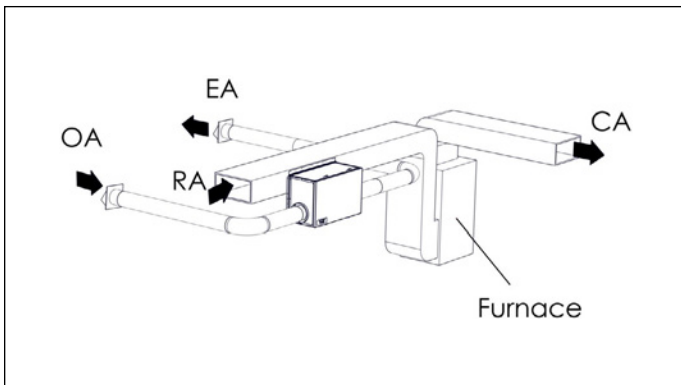
**Bottom Hung Lengthwise**



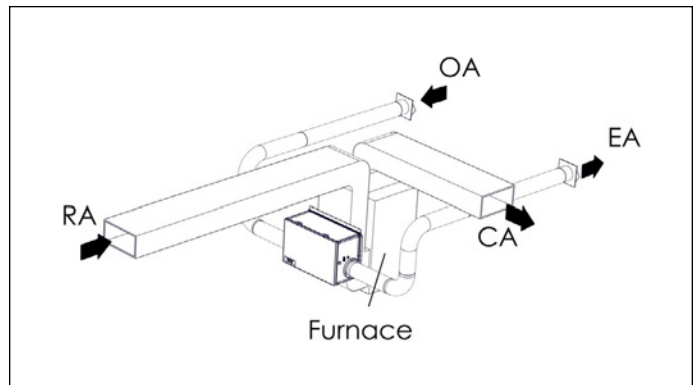
**Bottom Hung Crosswise**



**Side Hung**



**Return Drop Hung**



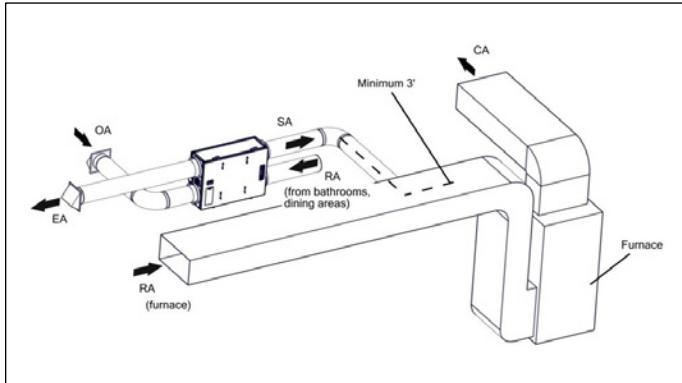
**Note:** Furnace blower must be operating any time ERV is operating. The unit is easily interlocked with the furnace to provide this function.

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

# APPLICATIONS — COMMON INSTALLATION APPROACHES

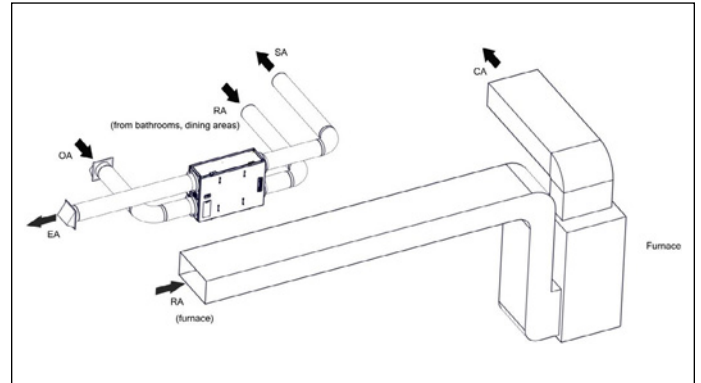
## SL and EV Series (SL75H, SL75, EV Premium and EV90)

**Separate Return Air Pick-Up—Supply Air to Furnace Return Air Trunk**



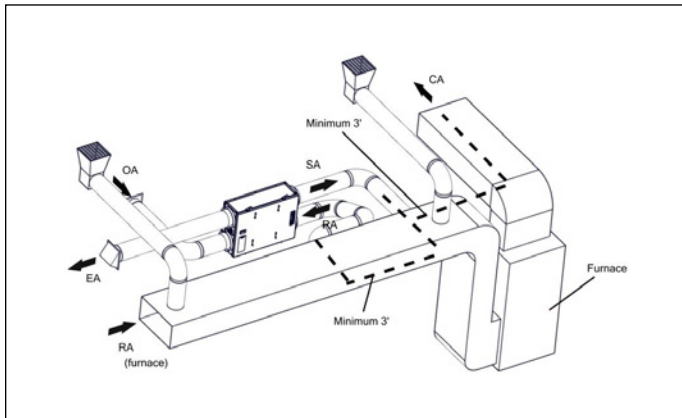
**Note:** ERV blower may be operated separate from furnace blower.

**Separate Return Air and Supply Air**



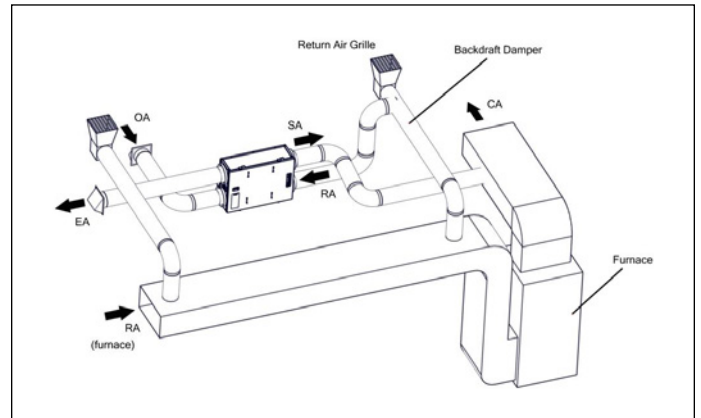
**Note:** ERV blower may be operated separate from furnace blower.

**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**



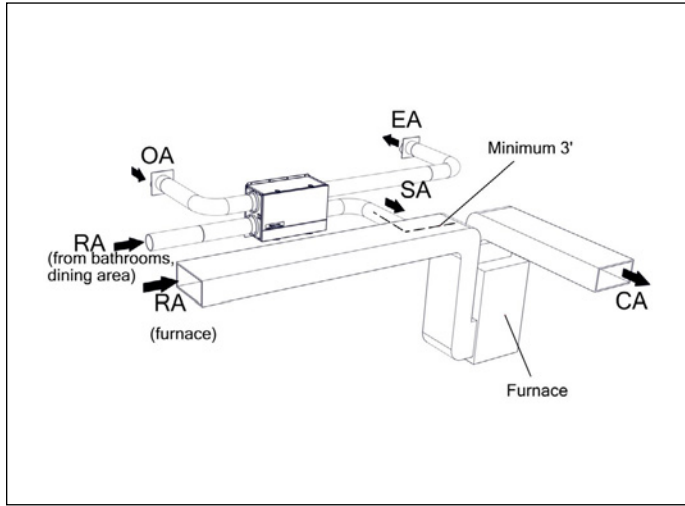
**Note:** ERV blower may be operated separate from furnace blower.

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

# APPLICATIONS — COMMON INSTALLATION APPROACHES

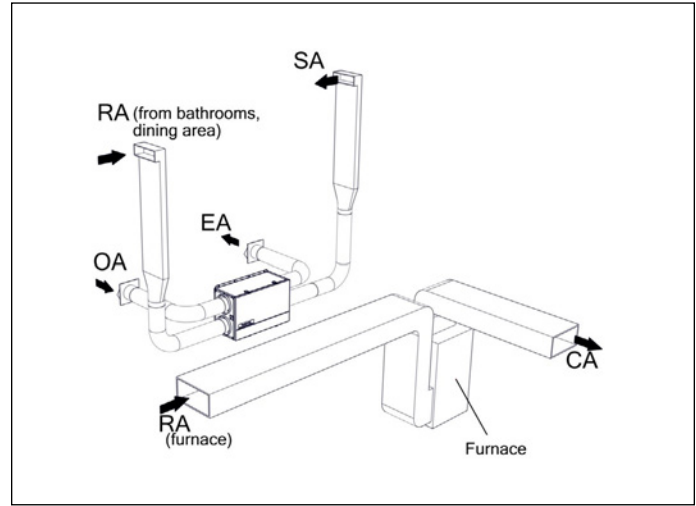
## EV Series (EV130, EV200, EV240, and EV300)

**Separate Room Air Pick-up—Supply Air to Furnace Return Trunk**



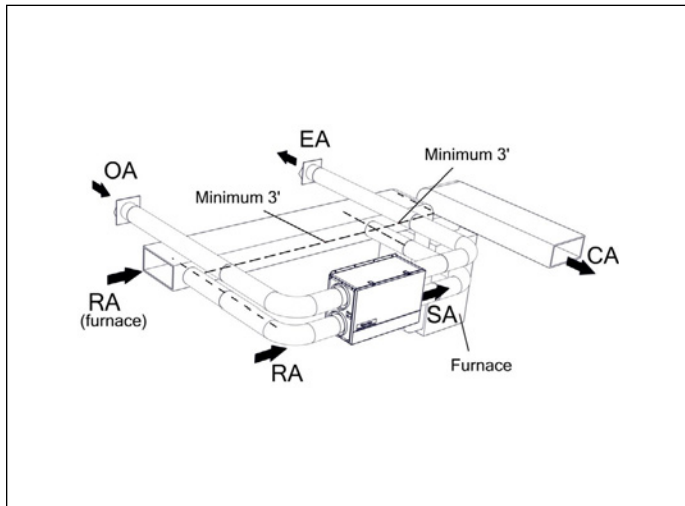
**Note:** ERV blower may be operated separate from furnace blower.

**Separate Air and Supply Air**



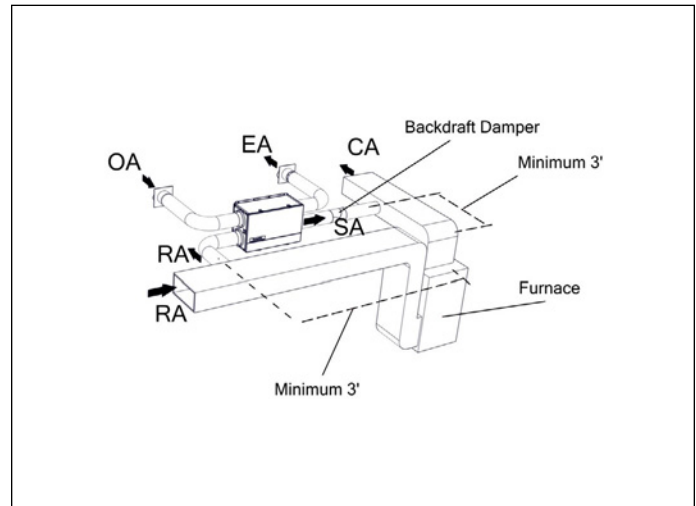
**Note:** ERV blower may be operated separate from furnace blower.

**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.

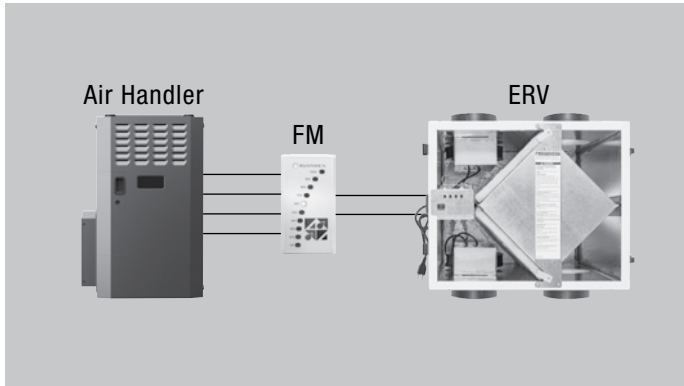
Conditioned Air (CA); Exhaust Air (EA); Outside Air (OA); Room Air (RA); Supply Air (SA)



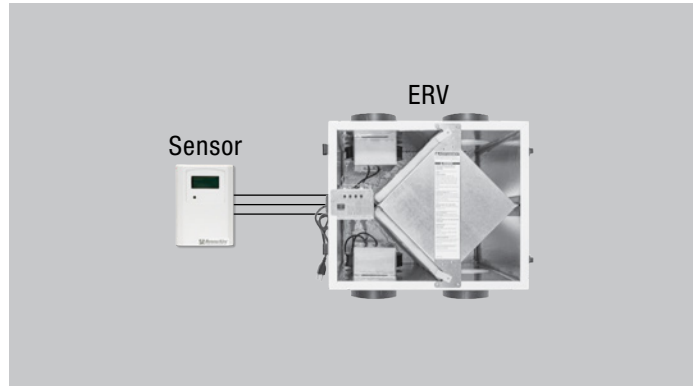
# CONTROL STRATEGIES

See individual submittal pages for compatibility by model.

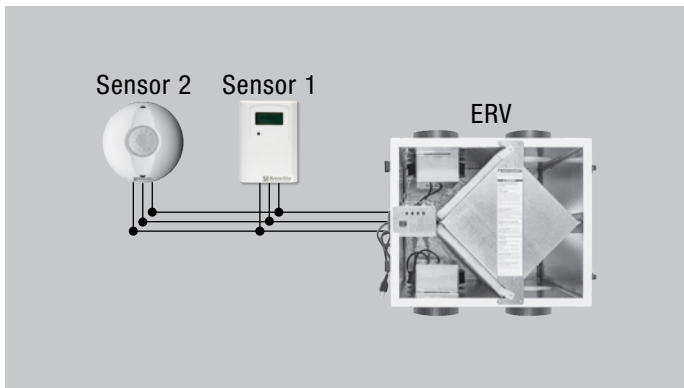
## INTERLOCK WITH AIR HANDLER



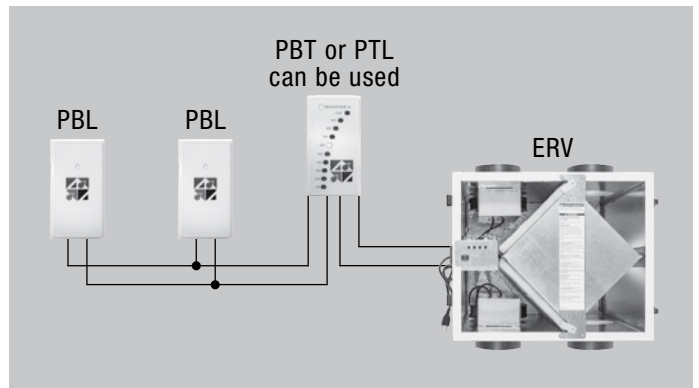
## SINGLE CONTROL



## MULTIPLE CONTROLS



## PBT OR PTL WITH PBL



# ACCESSORIES

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. RenewAire single/multi-family units are available standard with interface and controls.

**BR Series:** Built-in percentage run-time with furnace interlock

**GR Series:** 120V line voltage controls

**EV Premium and SL Series:** 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

**EV Series:** Percentage run timer or percentage run timer with furnace interlock and push button lighted controls

- ♦ **Digital time clock, CO2 sensors, IAQ sensors and motion occupancy sensors**—can be used if supplied with 24VAC from an external power supply

### PERCENTAGE TIMER (PTL)

Primary control for SL75, EV90, EV130, EV200, EV240, EV300 and EV Premium models

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



PTL Control

### PERCENTAGE TIMER WITH FURNACE INTERLOCK (FM)

Alternate primary control for SL75, EV90, EV130, EV200, EV240, EV300 and EV Premium models

- ♦ 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 POINT OF USE TIMER (PBL)

Secondary control used in combination with PTL control for SL75, EV90, EV130, EV200, EV240, EV300 and EV Premium models

- ♦ Push-button control turns on unit from bathrooms or other intermittent exhaust locations
- ♦ One-touch, 20-minute run-time
- ♦ Push 2 times for 40 minutes or 3 times for 60 minutes
- ♦ Two-wire, low-voltage connection to PTL or PBT control



PBL Control — requires PTL Control

### PUSH-BUTTON BOOST TIMER (PBT)

Optional boost control for SL75 and EV Premium models only

- ♦ Push-button control sends unit to boost mode from bathrooms or other intermittent exhaust locations
- ♦ One-touch, 20-minute run-time
- ♦ Push 2 times for 40 minutes or 3 times for 60 minutes
- ♦ Two-wire, low-voltage connection



PBT Control

# ACCESSORIES

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
- Battery back-up
- Wall mount or outdoor enclosure options
- Wall mount fits any 4" x 4" electrical box



TC7D-W  
Wall Mount



TC7D-E 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



CO2-W  
Wall Mount



CO2-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



IAQ-D  
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



MC-W  
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

- Available for all single/multi-family ERVs
- Electrostatically charged filter fibers
- Single die-cut construction frame
- Moisture-resistant construction
- High holding capacity design
- Expanded metal reinforcement
- Shipped loose



MERV 13 Filter

# ACCESSORIES

See individual submittal pages for compatibility by model.

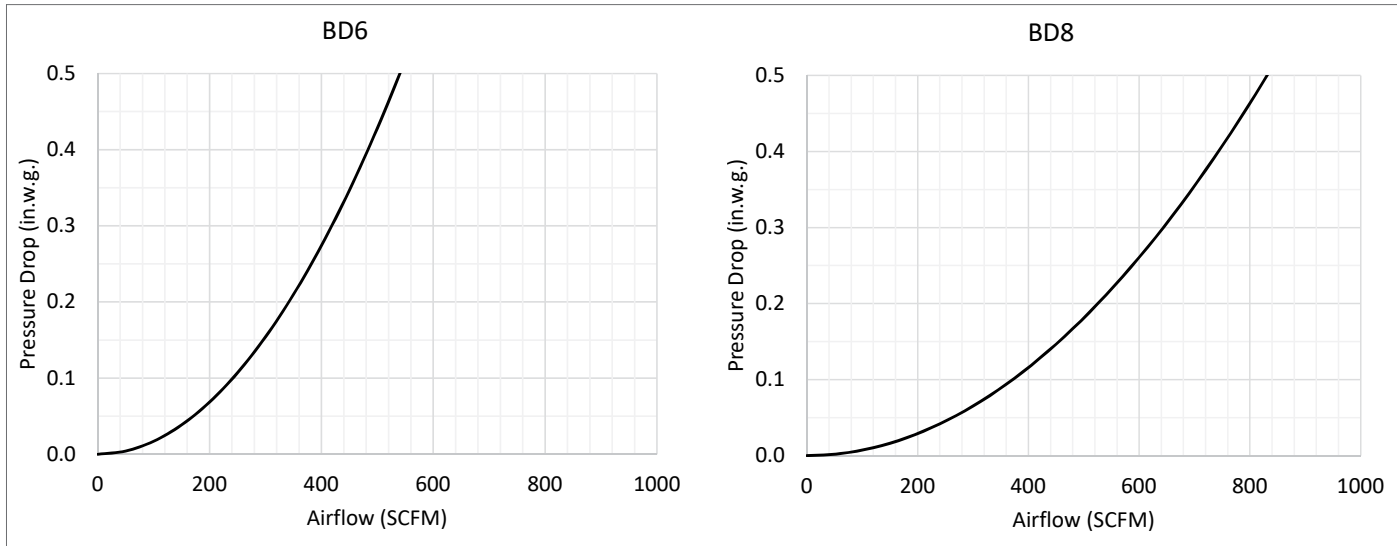
## Dampers

### 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.
  1. First the desired airflow is set by moving the set-point adjustment arm to the desired airflow in CFM (cubic feet per minute).
  2. Then the fixed stator blade applies the exact amount of tension on the moving damper blade to hold the airflow at its target.
  3. 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.”



# ACCESSORIES

See individual submittal pages for compatibility by model.

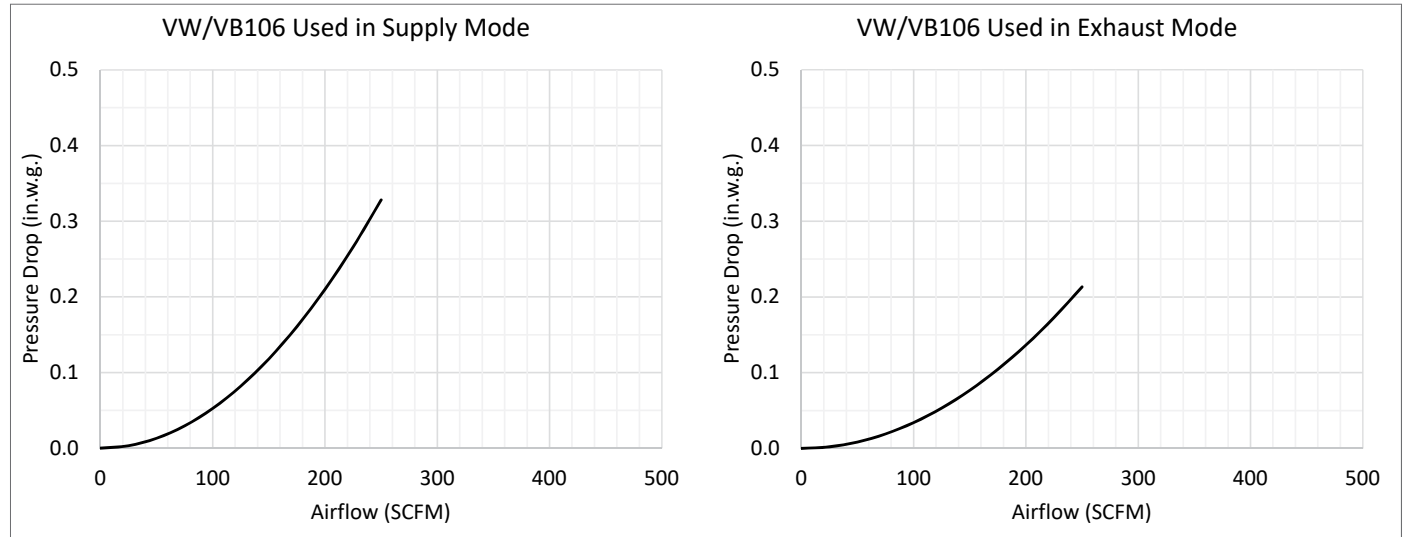
## Louvered Wall Vents

### 6" VINYL (VB106 & VW106)

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



#### VB106 & VW106 PRESSURE DROP PERFORMANCE

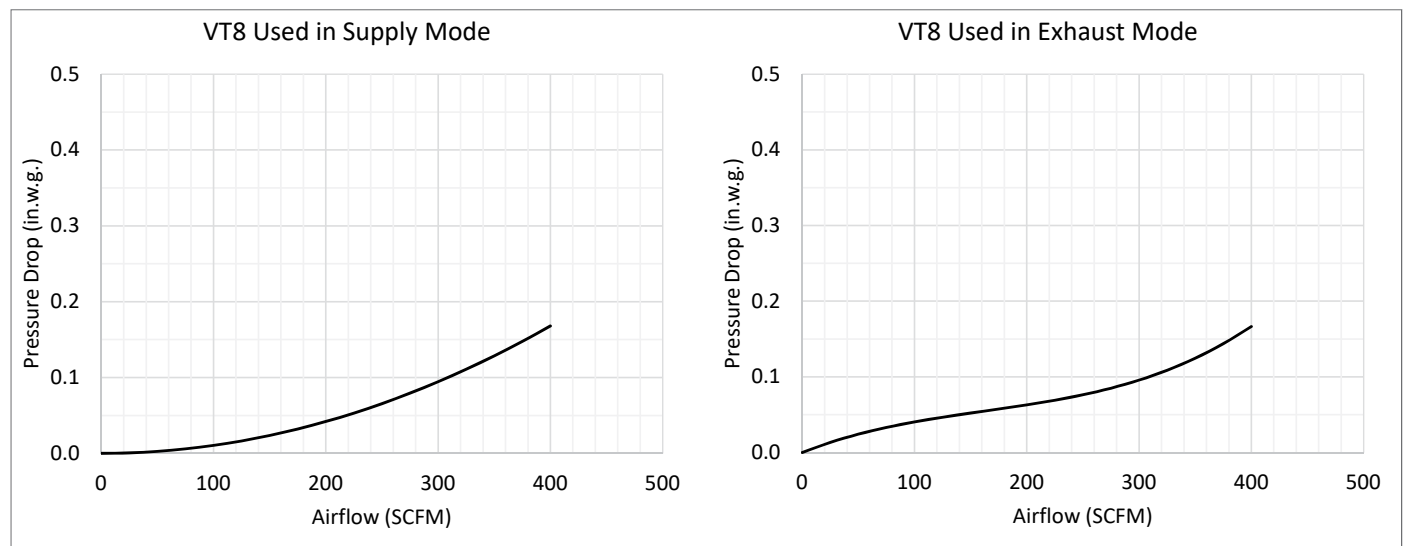


### 8" VINYL (VT8)

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



#### VT8 PRESSURE DROP PERFORMANCE



# ACCESSORIES

See individual submittal pages for compatibility by model.

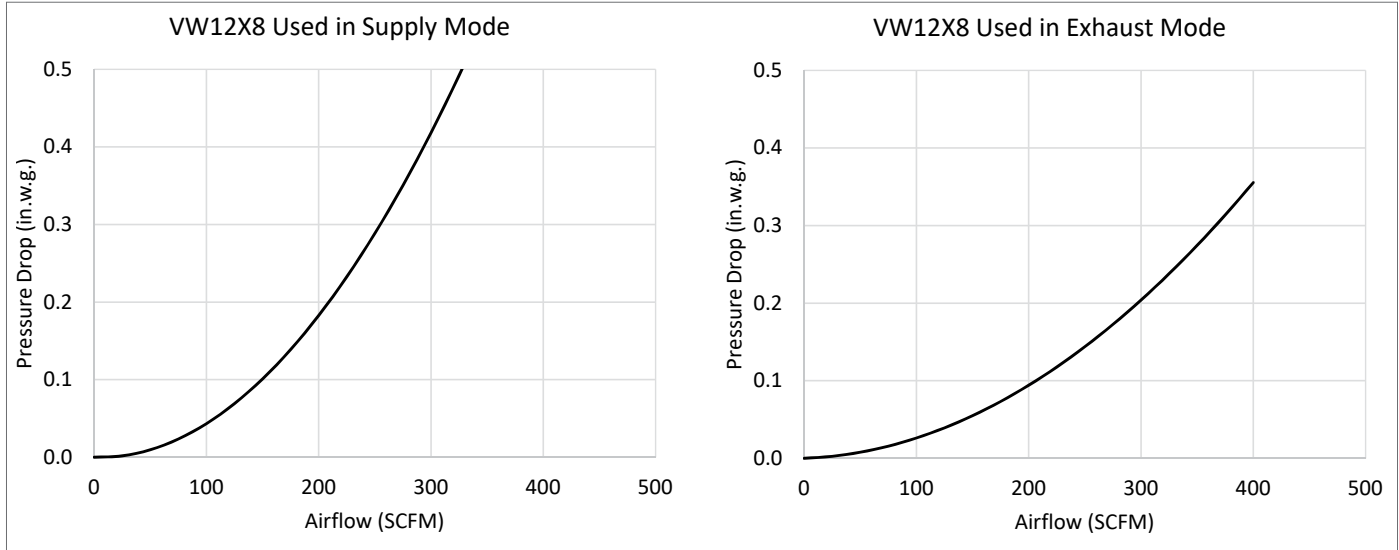
## Louvered Wall Vents

### 12" X 8" X 8" GALVANIZED (VW12X8)

- ♦ Round duct connect
- ♦ 1/2" metal screen
- ♦ Flush mount



#### VW12X8 PRESSURE DROP PERFORMANCE



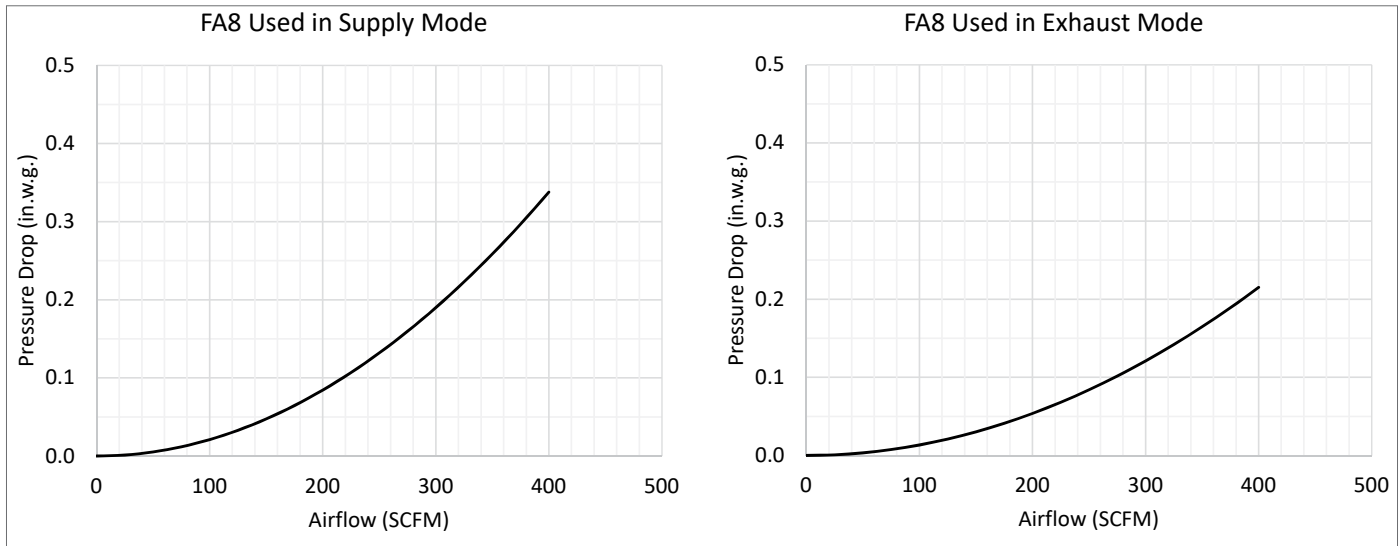
## Hooded Wall Vents

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

- ♦ Paintable (Galvanneal only)
- ♦ 1/4" metal screen



#### FA8-G & FA8-P PRESSURE DROP PERFORMANCE





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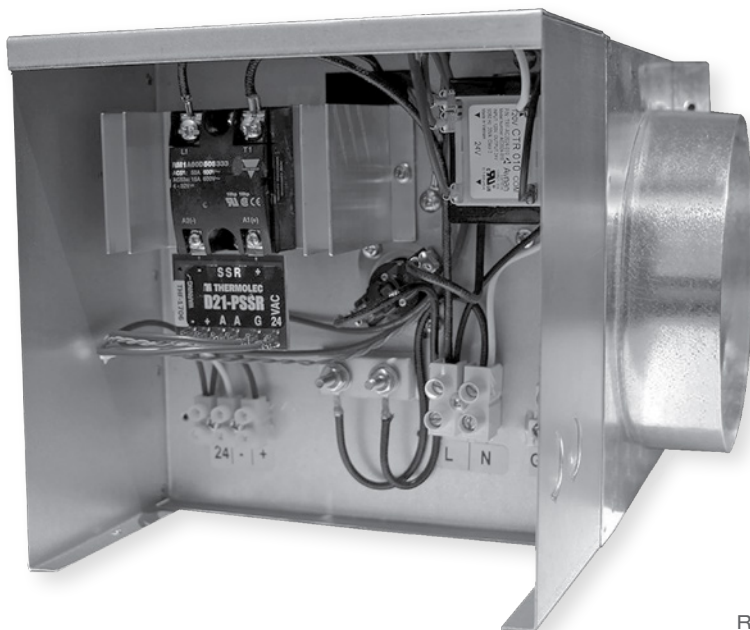


# ACCESSORIES

## 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.



**RH SERIES**  
RH-W SHOWN

### 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.

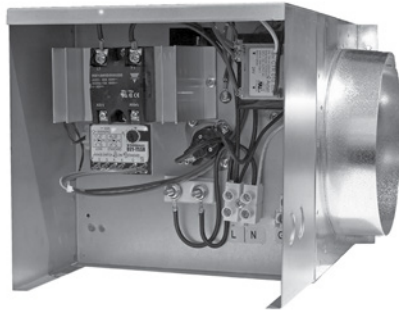
# RH SERIES

## Electric Duct Heater (1–11.5 kW) Accessory

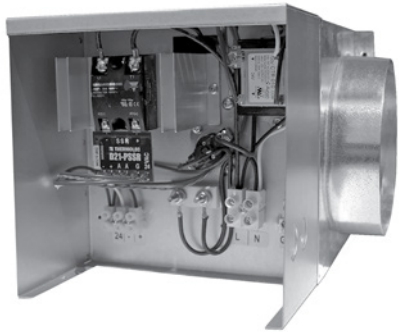


### ELECTRIC DUCT HEATER

### SPECIFICATIONS



RH-D (Integral Thermostat)



RH-W (Wall-Mount Thermostat)

**Heater Type:**  
Electric Duct Heater

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**Typical kW Range:**  
1–11.5 kW (1, 2, 3, 4, 5, 6, 8, 10, 11.5 kW)

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**Voltages & Phase:**  
Single phase: 120, 208 and 240V

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**Control Voltage:**  
24VAC

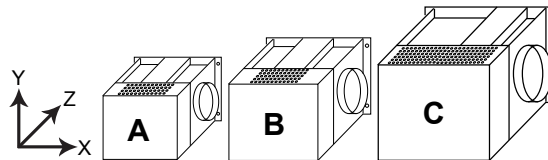
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**Controllable Output Temperature Range:**  
RH-D: 5 to 131° F  
RH-W: -3 to 130° F

**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

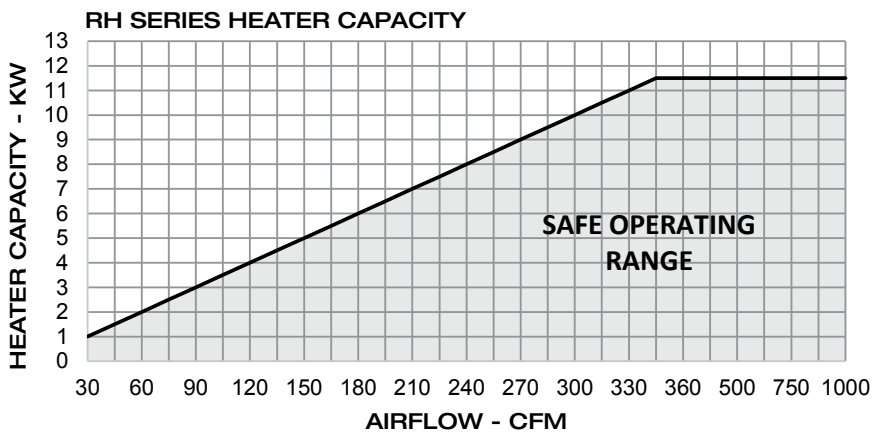
**Accessories:**  
Temperature sensor: Duct mount (DS-600)  
Digital time clock: wall mount (TC7D-W),  
in exterior enclosure (TC7D-E)  
Motion occupancy sensor/control:  
ceiling mount (MC-C), wall mount (MC-W)

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



Duct Collars	kW	Volts	Size	Width (X)	Height (Y)	Depth (Z)	Max. Wt. (lbs.)
6"	1, 2	120, 208, 240	A	11 1/2"	8"	11 1/2"	10
8"	3, 4, 5	208	B	11 1/2"	10"	13 1/2"	15
8"	3, 4, 5, 6	240	B	11 1/2"	10"	13 1/2"	15
10"	3, 4, 5	208	C	15 1/2"	12"	15 1/2"	20
10"	3, 4, 5, 6, 8, 10, 11.5	240	C	15 1/2"	12"	15 1/2"	20
12"	6, 8, 10, 11.5	240	C	15 1/2"	12"	15 1/2"	20

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

Configuration	Part Number	Model	Duct Collar Size				Kilowattage										Voltage (1P, 60 Hz)			Line Amps	Wire Gauge	Fuse Amps		
			6"	8"	10"	12"	1	2	3	4	5	6	8	10	11.5	120	208	240						
RHD1120-6	131320	TER-6-1120	●				●											●			8.33	12	15	
RHD1208-6	131352	TER-6-1208	●				●												●			4.80	12	15
RHD1240-6	131353	TER-6-1240	●				●															4.16	12	15
RHD2120-6	131321	TER-6-2120	●					●														16.7	12	20
RHD2208-6	131355	TER-6-2208	●					●														9.61	12	15
RHD2240-6	131356	TER-6-2240	●					●														8.33	12	15
RHD3208-8	131356	TER-8-3208		●					●													14.4	12	20
RHD3240-8	131322	TER-8-3240		●					●													12.5	12	15
RHD4208-8	131357	TER-8-4208		●						●												19.2	10	30
RHD4240-8	131323	TER-8-4240		●						●												16.7	12	20
RHD5208-8	131358	TER-8-5208		●							●											24.0	10	30
RHD5240-8	131359	TER-8-5240		●							●											20.8	10	30
RHD6240-8	131360	TER-8-6240		●								●										25.0	10	40
RHD3208-10	131336	TER-10-3208			●																	14.4	12	20
RHD3240-10	131337	TER-10-3240			●																	12.5	12	15
RHD4208-10	131338	TER-10-4208			●																	19.2	10	30
RHD4240-10	131339	TER-10-4240			●																	16.7	12	20
RHD5208-10	131340	TER-10-5208			●																	24.0	10	30
RHD5240-10	131341	TER-10-5240			●																	20.8	10	30
RHD6240-10	131342	TER-10-6240			●																	25.0	10	40
RHD8240-10	131343	TER-10-8240			●																	33.3	8	50
RHD10240-10	131361	TER-10-10240			●																	41.7	6	60
RHD11-1/2240-10	131362	TER-10-12240			●																	47.9	6	60
RHD6240-12	131344	TER-12-6240				●																25.0	10	40
RHD8240-12	131345	TER-12-8240				●																33.3	8	50
RHD10240-12	131346	TER-12-10240				●																41.7	6	60
RHD11-1/2240-12	131347	TER-12-12240				●																47.9	6	60
RHW1120-6	131324	ZON-6-1120	●																			8.33	12	15
RHW1208-6	131363	ZON-6-1208	●																			4.80	12	15
RHW1240-6	131364	ZON-6-1240	●																			4.16	12	15
RHW2120-6	131325	ZON-6-2120	●																			16.7	12	20
RHW2208-6	131365	ZON-6-2208	●																			9.61	12	15
RHW2240-6	131366	ZON-6-2240	●																			8.33	12	15
RHW3208-8	131367	ZON-8-3208		●																		14.4	12	20
RHW3240-8	131326	ZON-8-3240		●																		12.5	12	15
RHW4208-8	131368	ZON-8-4208		●																		19.2	10	30
RHW4240-8	131327	ZON-8-4240		●																		16.7	12	20
RHW5208-8	131369	ZON-8-5208		●																		24.0	10	30
RHW5240-8	131370	ZON-8-5240		●																		20.8	10	30
RHW6240-8	131371	ZON-8-6240		●																		25.0	10	40
RHW3208-10	131328	ZON-10-3208			●																	14.4	12	20
RHW3240-10	131329	ZON-10-3240			●																	12.5	12	15
RHW4208-10	131330	ZON-10-4208			●																	19.2	10	30
RHW4240-10	131331	ZON-10-4240			●																	16.7	12	20
RHW5208-10	131332	ZON-10-5208			●																	24.0	10	30
RHW5240-10	131333	ZON-10-5240			●																	20.8	10	30
RHW6240-10	131334	ZON-10-6240			●																	25.0	10	40
RHW8240-10	131348	ZON-10-8240			●																	33.3	8	50
RHW10240-10	131372	ZON-10-10240			●																	41.7	6	60
RHW11-1/2240-10	131373	ZON-10-12240			●																	47.9	6	60
RHW6240-12	131335	ZON-12-6240				●																25.0	10	40
RHW8240-12	131349	ZON-12-8240				●																33.3	8	50
RHW10240-12	131350	ZON-12-10240				●																41.7	6	60
RHW11-1/2240-12	131351	ZON-12-12240				●																47.9	6	60

# SOUND DATA

## SL75/H

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	51	57	54	46	37	31	27	18	18	59	43	0.2
	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
Room Inlet (SA)*	37	73	62	52	46	38	29	27	28	73	51	1.7
	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
Room Outlet (RA)*	36	60	57	53	49	36	30	27	21	63	49	0.8
	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
Room Inlet (SA)**	37	57	47	42	35	31	25	18	20	57	39	0.0
	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
Room Outlet (RA)**	39	58	50	46	31	31	23	19	19	59	41	0.1
	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.

## BR130

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	147	57	43	40	36	32	25	22	22	57	39	0.0

**Note:** Room Inlet (SA) and Room Outlet (RA) connections are made through furnace ducting.

**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 S/SH

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	39	62	49	38	47	37	27	20	18	63	46	0.6
	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
Room Inlet (SA)*	38	69	67	68	68	69	66	62	58	76	73	3.0
	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
Room Outlet (RA)*	38	56	49	49	50	51	49	44	38	59	55	0.1
	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
Room Inlet (SA)**	40	51	48	40	35	36	37	35	33	53	43	0.0
	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
Room Outlet (RA)**	40	51	49	46	45	46	44	38	36	56	50	0.0
	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.

## EV PREMIUM M/MH

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	85	63	54	52	44	38	33	20	24	64	47	0.7
	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
Room Inlet (SA)*	91	62	61	58	54	54	55	55	54	67	62	1.3
	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
Room Outlet (RA)*	86	70	66	63	63	63	63	59	57	74	69	2.2
	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
Room Inlet (SA)**	83	53	52	51	48	48	45	45	41	58	53	0.0
	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
Room Outlet (RA)**	81	53	47	49	46	46	41	42	40	56	51	0.0
	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.

**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 L/LH

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	104	63	56	57	53	43	34	21	24	65	53	1.6
	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
Room Inlet (SA)*	113	63	61	59	55	55	55	55	55	68	62	1.4
	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
Room Outlet (RA)*	110	62	60	59	57	57	58	57	56	68	64	2.0
	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
Room Inlet (SA)**	116	52	50	48	47	47	46	43	39	57	52	0.0
	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
Room Outlet (RA)**	125	55	52	48	47	47	44	42	38	59	52	0.0
	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.

## EV90/GR90

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	112	52	45	52	41	29	26	21	19	56	45	0.4
Room Inlet (SA)*	112	55	52	54	43	37	31	28	26	59	48	0.9
Room Outlet (RA)*	112	53	46	47	33	29	26	15	14	55	41	0.1
Room Inlet (SA)**	112	54	49	50	36	28	25	21	19	56	43	0.3
Room Outlet (RA)**	112	48	45	46	34	29	26	19	18	52	40	0.1

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

## EV130

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	147	57	43	40	36	32	25	22	22	57	39	0.0
Room Inlet (SA)*	147	53	50	39	36	33	23	14	16	55	39	0.0
Room Outlet (RA)*	147	56	51	50	45	38	29	26	31	58	46	0.5
Room Inlet (SA)**	147	52	49	39	33	33	25	21	19	54	39	0.0
Room Outlet (RA)**	147	52	48	42	33	34	22	17	20	54	39	0.1

**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

## EV200

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	178	59	55	52	42	33	25	24	20	61	46	0.4
Room Inlet (SA)*	178	54	56	50	39	41	29	25	31	59	47	0.6
Room Outlet (RA)*	178	60	58	49	39	31	26	22	19	63	45	0.7
Room Inlet (SA)**	178	52	53	48	37	39	28	24	29	56	44	0.4
Room Outlet (RA)**	178	57	51	48	31	31	24	20	17	59	42	0.2

**Note:** \*Hard ducted 1m to measurement area.

\*\*Insulated flex duct 5' to measurement area.

## EV240

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	238	60	60	53	45	36	28	27	26	63	49	0.4
Room Inlet (SA)*	238	62	60	44	41	35	25	22	19	64	46	0.6
Room Outlet (RA)*	238	65	62	56	45	32	25	26	21	67	51	0.7
Room Inlet (SA)**	238	59	57	42	40	33	24	21	18	61	44	0.4
Room Outlet (RA)**	238	62	59	53	43	31	24	25	20	64	48	0.2

**Note:** \*Hard ducted 1m to measurement area.

\*\*Insulated flex duct 5' to measurement area.

## EV300

Source	CFM	Sound Power Level (dB)								Lw (dB)	LwA (dBA)	Sones
		62.5 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz			
Case Radiated	297	66	66	61	57	55	44	40	37	70	60	3.6
Room Inlet (SA)*	297	64	65	64	60	55	46	41	36	70	61	4.0
Room Outlet (RA)*	297	67	70	71	63	56	46	36	41	75	65	5.2
Room Inlet (SA)**	297	61	62	61	58	53	44	39	34	67	59	3.2
Room Outlet (RA)**	297	64	67	68	60	53	49	43	39	72	62	4.1

**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.

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# HVI TESTED/CERTIFIED

PER CSA C439



SL75H/SL75—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				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	1.0	32	68	34	72	35	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 Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
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					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	25	53	32	57	59	

BR130—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	70	148	71	150	75	159
50	0.2	66	140	67	142	69	146
75	0.3	62	131	63	133	64	136
100	0.4	53	112	54	114	56	119
125	0.5	44	93	45	95	47	100
150	0.6	32	68	33	70	29	61

BR130—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	47	100	99	72	78	64
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	47	100	98	56	59	

EV Premium SH/EV Premium S—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				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	1.0	35	74	37	78	32	68

EV Premium SH/EV Premium S—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
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					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	24	51	32	60	63	

EV Premium MH/EV Premium M—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				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	1.0	81	172	82	174	82	174

EV Premium MH/EV Premium M—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
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 %	Adjusted Total Recovery Efficiency %	
35°	95°	24	51	20	77	79	

EV Premium LH/EV Premium L—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				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	1.0	99	210	100	212	98	208

EV Premium LH/EV Premium L—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
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 %	Adjusted Total Recovery Efficiency %	
35°	95°	29	61	20	76	77	

EV90/GR90—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	47	100	47	100	48	102
50	0.2	40	85	40	85	43	91
75	0.3	33	70	33	70	37	78
100	0.4	26	55	26	55	31	66
125	0.5	19	40	19	40	27	57

EV90/GR90—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	40	85	41	64	67	49
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	39	83	38	48	50	



# HVI TESTED/CERTIFIED

PER CSA C439

EV130—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	77	163	80	170	76	161
50	0.2	71	150	73	155	73	155
75	0.3	66	140	68	144	68	144
100	0.4	59	125	61	129	63	133
125	0.5	48	102	50	106	54	114
150	0.6	32	68	33	70	43	91

EV130—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	47	100	99	72	78	64
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	47	100	98	56	59	

EV200—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	97	206	100	212	109	231
50	0.2	90	191	93	197	104	220
75	0.3	88	186	90	191	101	214
100	0.4	83	176	85	180	96	203
125	0.5	79	167	81	172	88	186
150	0.6	70	148	72	153	76	161
175	0.7	57	121	59	125	68	144

EV200—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	85	180	157	78	84	62
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	85	180	155	52	54	

EV240—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	125	265	129	273	132	280
50	0.2	121	256	124	263	126	267
75	0.3	118	250	120	254	121	256
100	0.4	114	242	116	246	117	248
125	0.5	108	229	111	235	110	233
150	0.6	101	214	103	218	102	216
175	0.7	92	195	94	199	93	197
200	0.8	80	170	82	174	79	167

EV240—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	111	235	216	75	80	57
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	108	229	213	53	56	

EV300—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
100	0.4	147	311	150	318	143	303
125	0.5	139	295	142	301	133	282
150	0.6	131	278	133	282	125	265
175	0.7	121	256	123	261	108	229
200	0.8	101	214	103	218	94	199
225	0.9	90	191	92	195	74	157
250	1.0	80	170	82	174	47	100

EV300—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	139	295	315	67	73	54
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	138	292	313	46	49	

# INDEPENDENTLY TESTED

PER CSA C439

BR70—Ventilation Performance							
Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
Pa	in. wg	L/S	CFM	Supply		Exhaust	
				L/S	CFM	L/S	CFM
25	0.1	41	86	42	89	46	97
50	0.2	34	73	35	75	39	84
75	0.3	28	59	29	61	32	69
100	0.4	21	46	22	47	25	53

Electrical Requirements Volts 120 Amps 1.0

BR70—Energy Performance							
Supply Temperature		Net Airflow		Average Power Watts	Sensible Recovery Efficiency %	Adjusted Sensible Recovery Efficiency %	Net Moisture Transfer %
C°	F°	L/S	CFM				
Heating							
0°	32°	32	69	94	66	75	53
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	30	64	94	42	47	



# 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



**FOR TECHNICAL SUPPORT:**

RenewaيرةSupport@renewaire.com



**PHONE:**

1.800.627.4499



**TO PLACE AN ORDER:**

CORES.renewaire.com

or

RenewaيرةOrders@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 EVERYWHERE

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 (LOWER AND HIGHER)

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

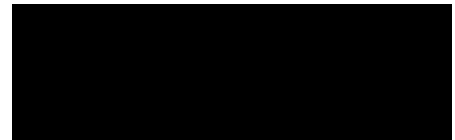
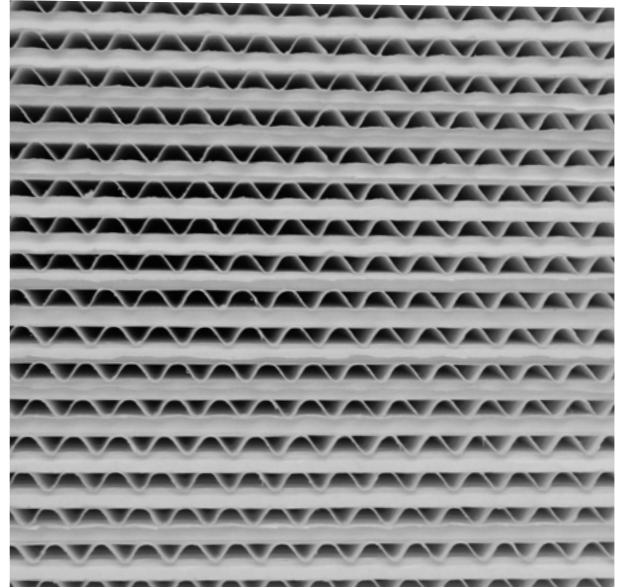
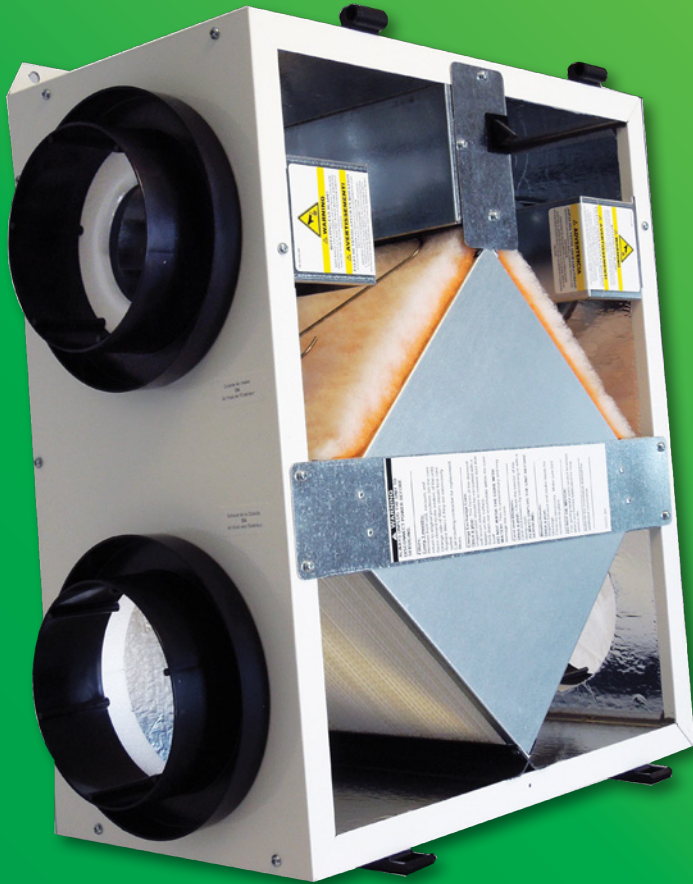
## GOVERNMENT

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 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.

