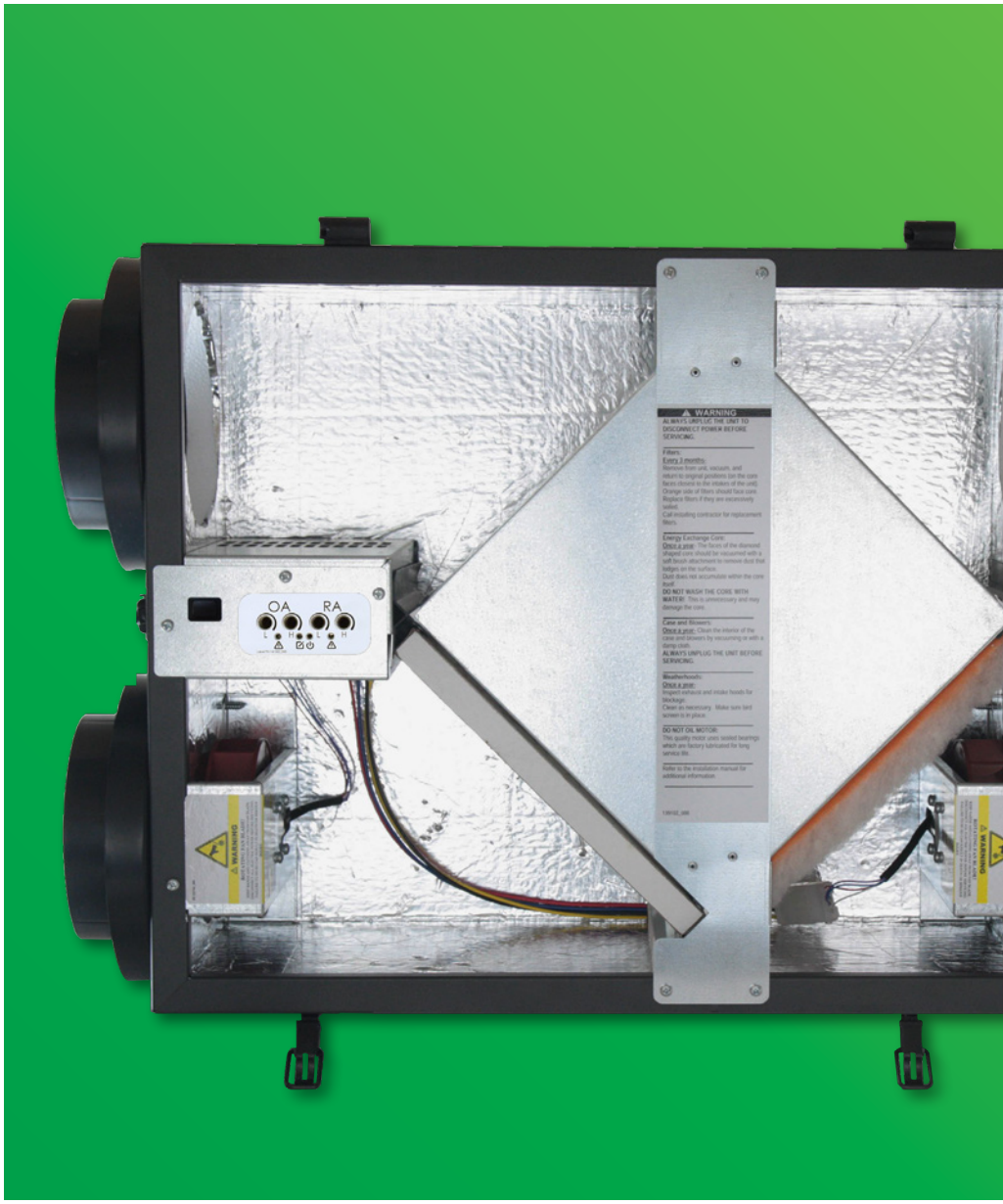
RenewAire®
Energy Recovery Ventilation

ERV



SL, BR, GR & EV SERIES

SINGLE/MULTI-FAMILY ERV CATALOG

DECEMBER 2021

RENEWAIRE.COM | 800.627.4499

BECAUSE INDOOR
AIR QUALITY MATTERS

As buildings become more airtight due to better construction methodologies, the need for increased and balanced ventilation is critical. Without it, internally generated contaminants accumulate and cause **deficient indoor air quality** (IAQ), which leads to significant health and cognitive problems for occupants. Industry standards are changing to combat deficient IAQ, and codes that adopt these new standards are driving the application of Energy Recovery in ventilation strategies. Deficient IAQ is a serious problem, especially considering:

- On average, Americans spend 90% of their time indoors
- The EPA found that indoor air may be 2–5 times—and occasionally greater than 100 times—more polluted than outdoor air
- The EPA ranks indoor air pollutants as a top-five environmental health risk to occupants

ADVERSE EFFECTS OF **DEFICIENT IAQ**

Deficient IAQ has numerous adverse effects on the health and cognitive function of building occupants.

Health problems: Acute allergies, headaches, coughs, asthma, skin irritations and breathing difficulties, as well as chronic illnesses such as cancer, liver disease, kidney damage and nervous-system failure.

Cognitive impairment: Studies by the Harvard School of Public Health and the Lawrence Berkeley National Laboratory found that carbon dioxide (CO_2)—an indoor air contaminant—negatively impacted thinking and decision-making at levels commonly found inside homes and buildings.

ABOUT RENEWAIRE

For over 30 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.**

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SL SERIES—Unitary ERV

*Continuous mode range

BR SERIES—Unitary (Two Duct) ERV

EV SERIES—Unitary ERV

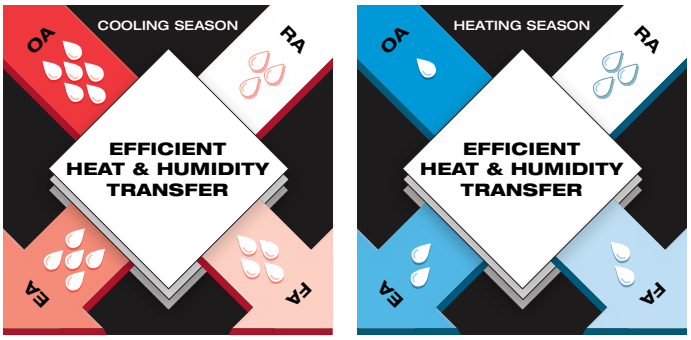
GR SERIES—Unitary ERV

RENEWAIRE ERVs
ACHIEVE SUSTAINABLE IAQ

RenewAire is a **pioneer in enhancing IAQ** while maximizing sustainability through enthalpic-core, static-plate Energy Recovery Ventilators (ERVs) that **optimize energy efficiency, lower costs by reducing HVAC loads and therefore reduce environmental footprints**. Our ERV technology preconditions incoming air with the otherwise-wasted energy (heat and humidity) of the exhaust air going out—all while the airstreams are kept physically separate as certified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI) for low-to-zero Exhaust Air Transfer Ratio (EATR) at typical static pressure differentials. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

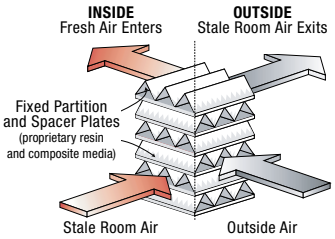
OPTIMIZING ENERGY EFFICIENCY

Energy efficiency is optimized by preconditioning the outside air coming in with the **otherwise-wasted heat and humidity** of the exhaust air going out. This exchange of energy moderates temperatures and moisture, decreases HVAC equipment needs, drives operational efficiencies and conserves energy.



REDUCING HVAC LOADS

RenewAire technology reduces **HVAC loads** during both winter and summer. In turn, HVAC equipment capacities can be decreased, thus furnaces and air conditioners can be smaller. This process ensures efficient operations and keeps both energy use and costs low, while maintaining high-level IAQ.



MINIMIZING ENVIRONMENTAL IMPACT

The combination of less energy used and HVAC loads being reduced conserves resources. Further, our Madison, WI plant is 100% powered by renewable wind energy, and is one of the few buildings worldwide to be LEED® Gold and Green Globes certified, as well as having achieved ENERGY STAR Building status. This commitment to sustainable manufacturing minimizes our overall production and distribution environmental footprint.

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

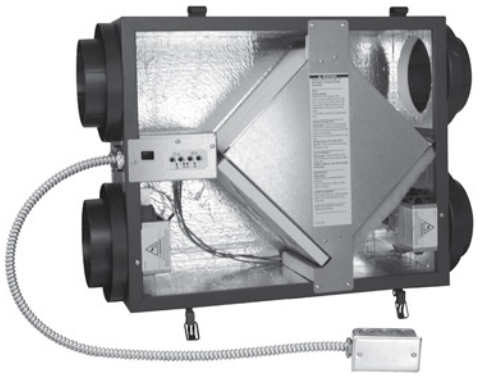
HIGHLY CERTIFIED

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

SL 70H

Energy Recovery Ventilator
EC Motor

INDOOR UNIT



SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Continuous Operation Airflow: 51–76 CFM
Boost Mode Airflow: 76–94 CFM

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

Standard Features:
Gray painted cabinet
Hard wiring in 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):
29 1/2" L x 22 1/2" W x 11 1/2" H
38 lbs.

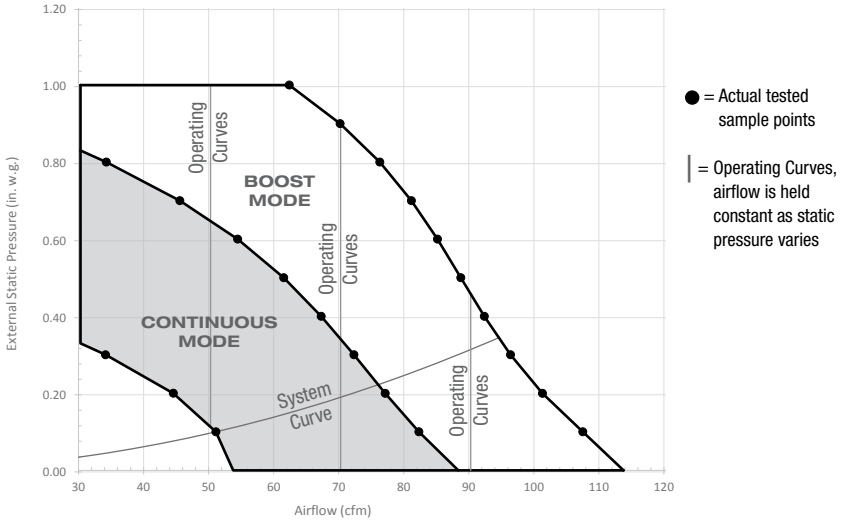
Motor(s):
Qty. 2, 48V EC motorized impellers

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)
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 (1–3 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)
Continuous Mode	82	0.1	62
	77	0.2	60
	72	0.3	59
	67	0.4	58
	61	0.5	56
	54	0.6	54
	45	0.7	51
	34	0.8	47
Boost-Mode	108	0.1	104
	102	0.2	102
	95	0.3	100
	91	0.4	99
	89	0.5	97
	85	0.6	96
	81	0.7	94
	76	0.8	92
	70	0.9	89
	61	1.0	85

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

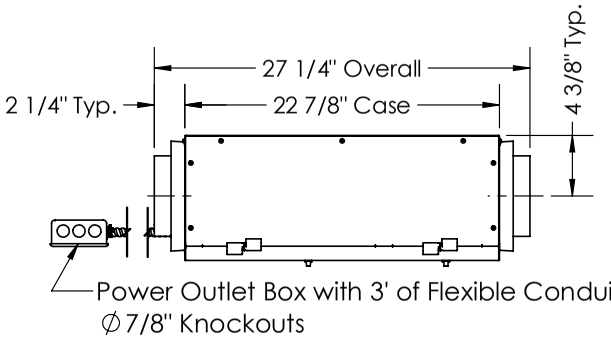
Continuous Mode			Boost-Mode		
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*	Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*
82	73	67/52	108	68	61/44
77	74	68/53	102	69	62/46
72	75	69/55	95	71	64/48
67	76	70/56	91	71	65/49
61	77	72/58	89	72	65/50
54	78	73/60	85	72	66/51
45	80	75/62	81	73	67/52
34	82	78/65	76	74	68/53
			70	75	70/55
			61	77	72/58

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
96	120	60	1	2	10	15

SL70H Energy Recovery Ventilator EC Motor



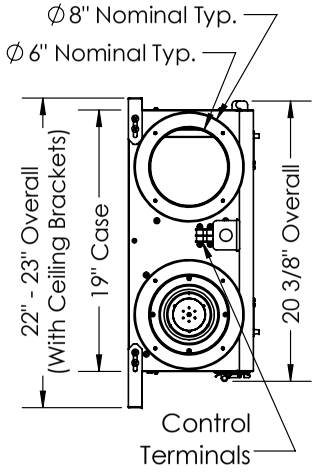
TOP VIEW

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

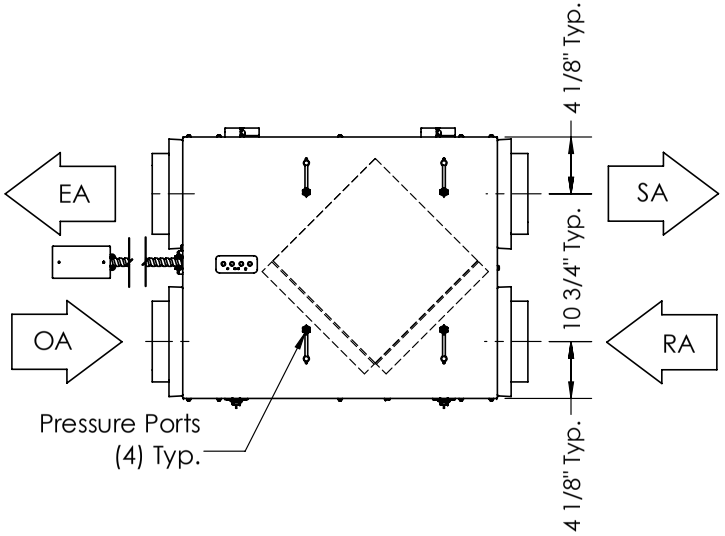
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

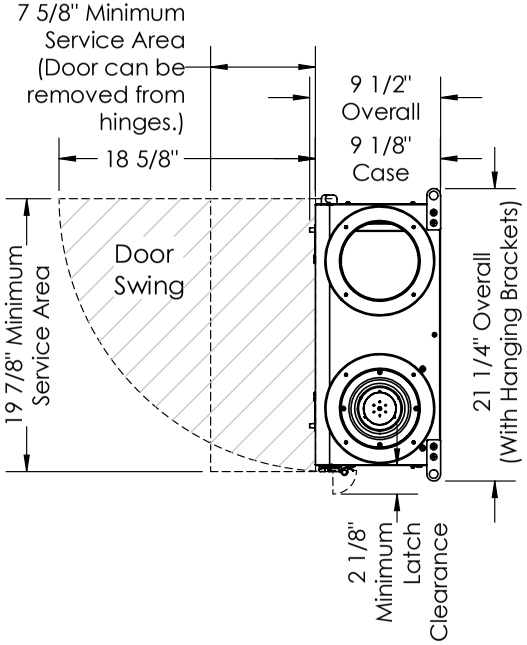
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW
(Hard Mount Depicted)



FRONT VIEW



RIGHT VIEW
(Hanging Mount Depicted)

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/FA airstream.

SL 70L

Energy Recovery Ventilator
EC Motor

INDOOR UNIT

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Continuous Operation Airflow: 51–76 CFM
Boost Mode Airflow: 76–94 CFM

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

Standard Features:
Gray 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):
29 1/2" L x 22 1/2" W x 11 1/2" H
38 lbs.

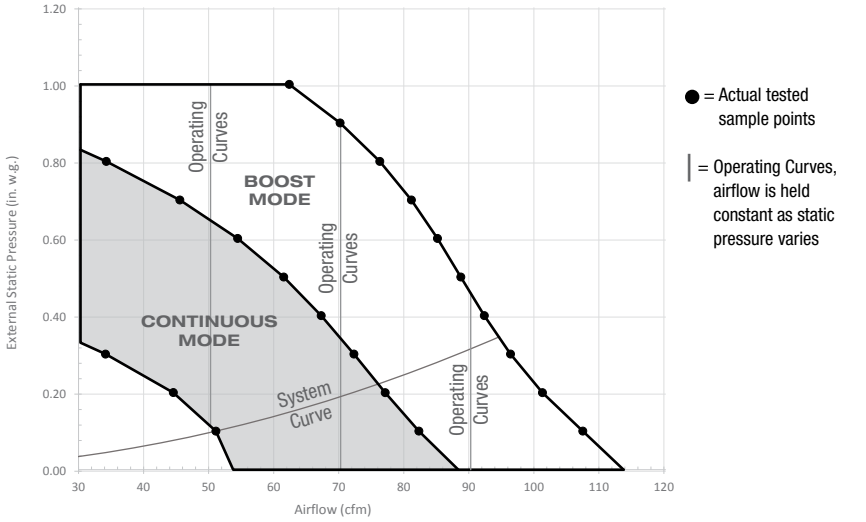
Motor(s):
Qty. 2, 48V EC motorized impellers

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)
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 (1–3 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)
Continuous Mode	82	0.1	62
	77	0.2	60
	72	0.3	59
	67	0.4	58
	61	0.5	56
	54	0.6	54
	45	0.7	51
	34	0.8	47
Boost-Mode	108	0.1	104
	102	0.2	102
	95	0.3	100
	91	0.4	99
	89	0.5	97
	85	0.6	96
	81	0.7	94
	76	0.8	92
	70	0.9	89
	61	1.0	85

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

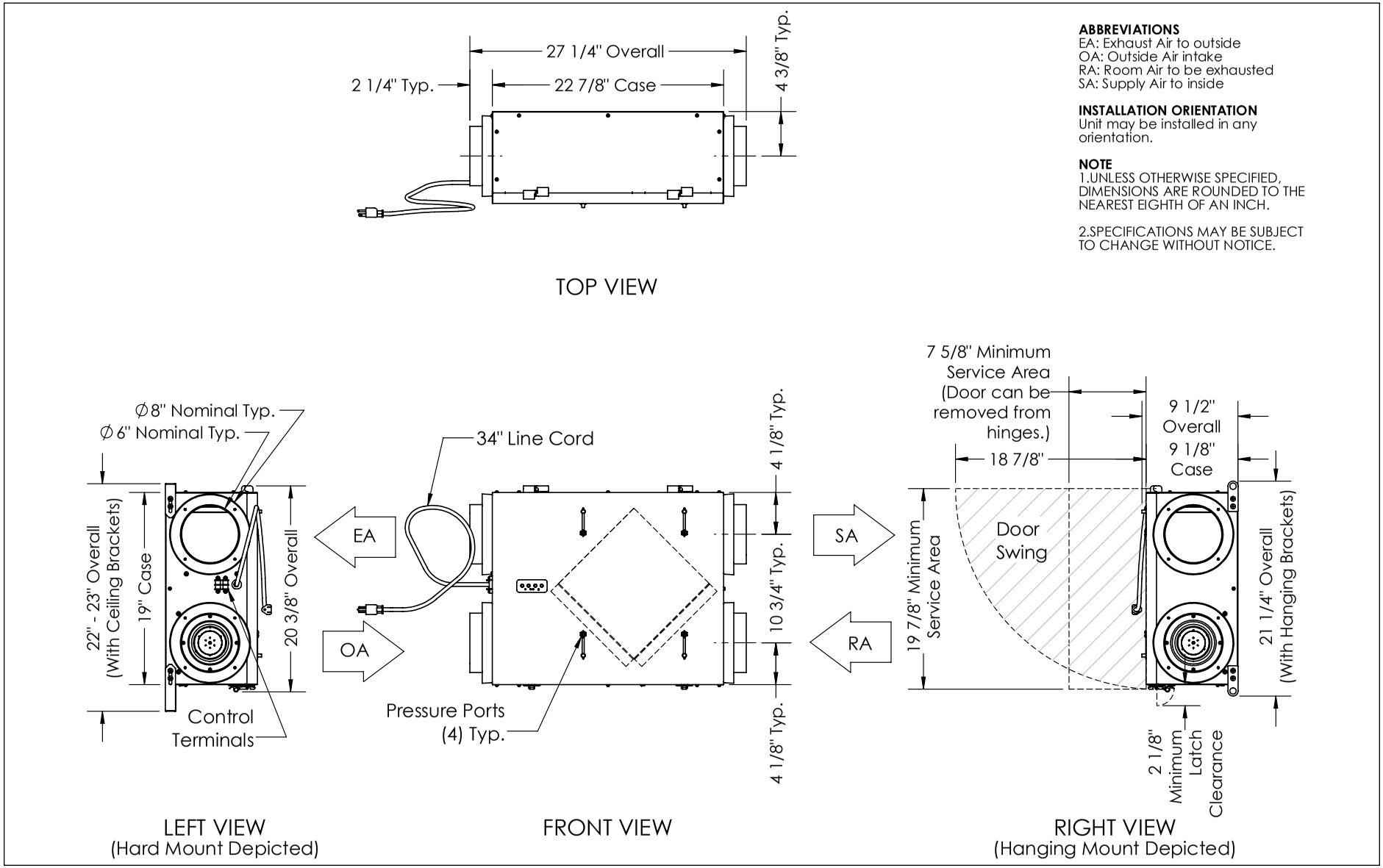
Continuous Mode			Boost-Mode		
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*	Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*
82	73	67/52	108	68	61/44
77	74	68/53	102	69	62/46
72	75	69/55	95	71	64/48
67	76	70/56	91	71	65/49
61	77	72/58	89	72	65/50
54	78	73/60	85	72	66/51
45	80	75/62	81	73	67/52
34	82	78/65	76	74	68/53
			70	75	70/55
			61	77	72/58

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
96	120	60	1	2	10	15

SL70L 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/FA airstream.

BR 70

Energy Recovery Ventilator

cULus LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT
Duct Mounted or Thru-the-Wall

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_2O
46	0.40
59	0.30
73	0.20
86	0.10

CORE PERFORMANCE

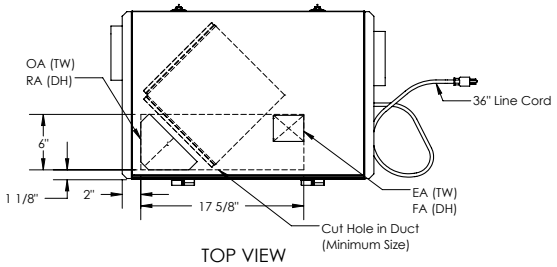
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
46	80	75/62
59	77	72/58
73	75	69/54
86	72	66/51

Note: These are core-only ratings and are not HVI certified. See performance ratings per CSA C439 on pg. 33 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/FA airstreams. If four ducts are connected using duct collar kit, airstreams may be switched.



TOP VIEW

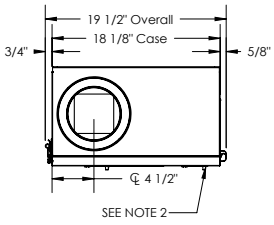
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

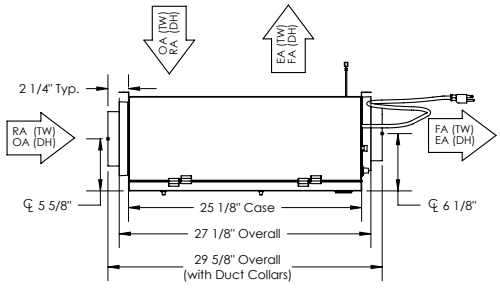
NOTE
1.UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.

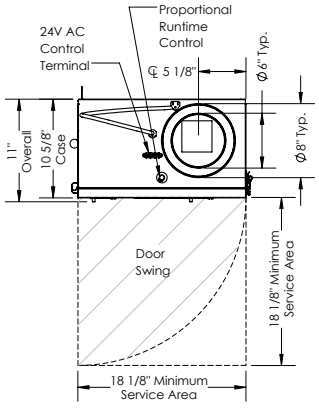
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

RenewAire Energy Recovery Ventilation

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_2O
51	0.70
68	0.60
93	0.50
112	0.40
131	0.30
140	0.20
148	0.10

CORE PERFORMANCE

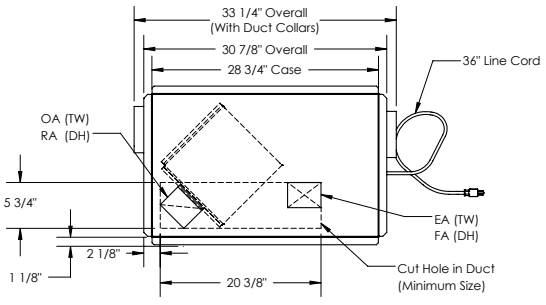
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
51	82	78/65
68	80	75/61
93	76	71/56
112	74	68/53
131	71	65/49
140	70	63/47
148	69	62/46

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 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/FA airstreams. If four ducts are connected using duct collar kit, airstreams may be switched.



TOP VIEW

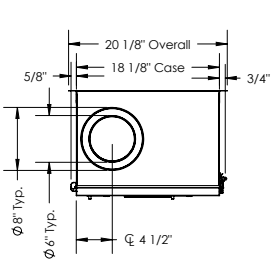
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

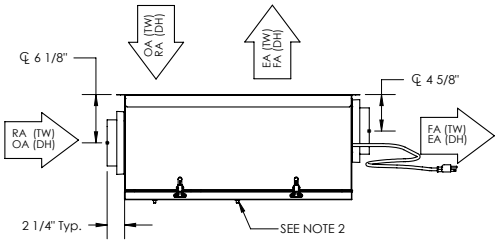
NOTE
1.UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.

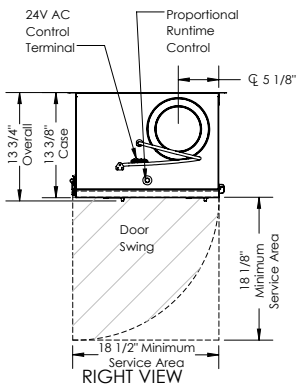
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



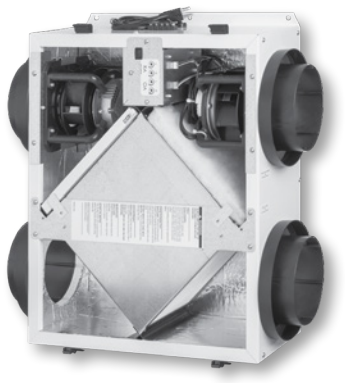
RIGHT VIEW

EV PREMIUM S

Energy Recovery Ventilator
EC Motor

NEW

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.

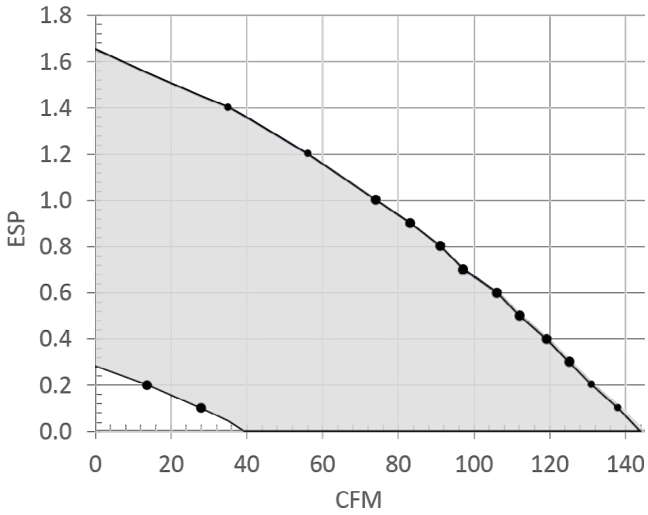
Motor(s):
Qty. 2, 110V EC motorized impellers

Accessories:
Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
Louvered wall vent with 8" round duct connection: 12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvanneal
Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
Push-button point-of-use controls (PBL), PTL req'd.
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–6 kW); designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	**External Static Pressure (Inches Water Column)**	**Unit Power Consumption (Watts)**
Max. Speed		
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
Min. Speed		
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.



CORE PERFORMANCE

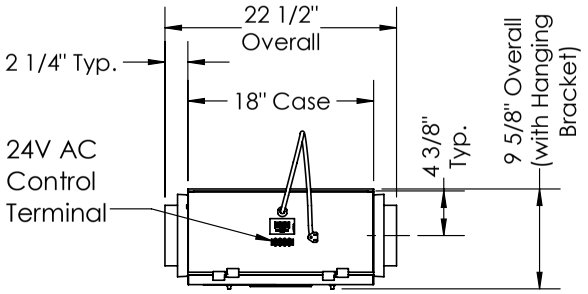
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*
Max. Speed		
138	62	58/36
131	64	59/38
125	65	61/40
119	66	62/41
112	67	63/43
106	68	65/45
97	70	67/48
91	71	68/49
83	73	70/51
74	75	71/54
56	78	75/59
35	82	80/65
Min. Speed		
28	83	81/67
13	86	85/71

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

ELECTRICAL DATA

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

EV Premium S Energy Recovery Ventilator EC Motor



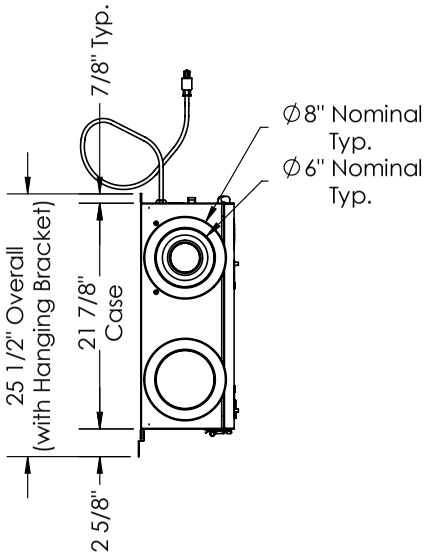
TOP VIEW

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

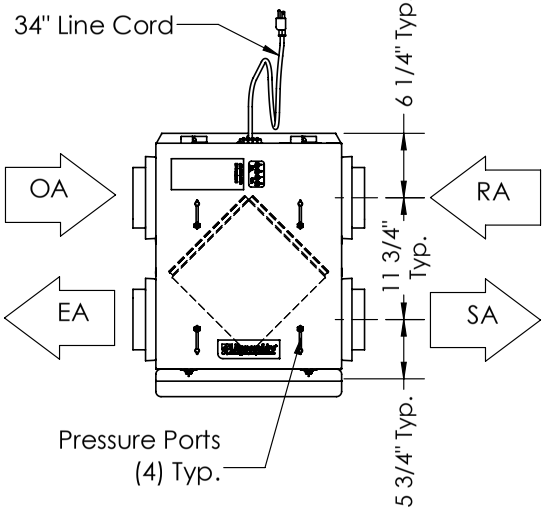
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

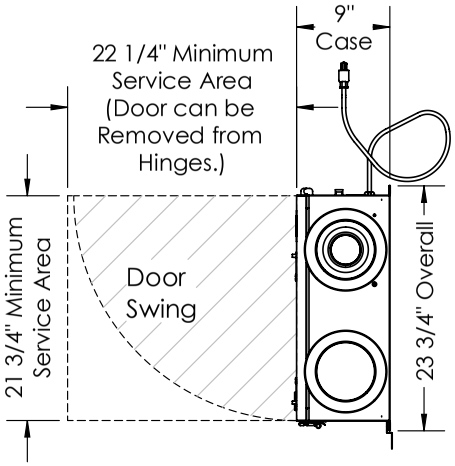
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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/FA airstream.

EV PREMIUM M

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.

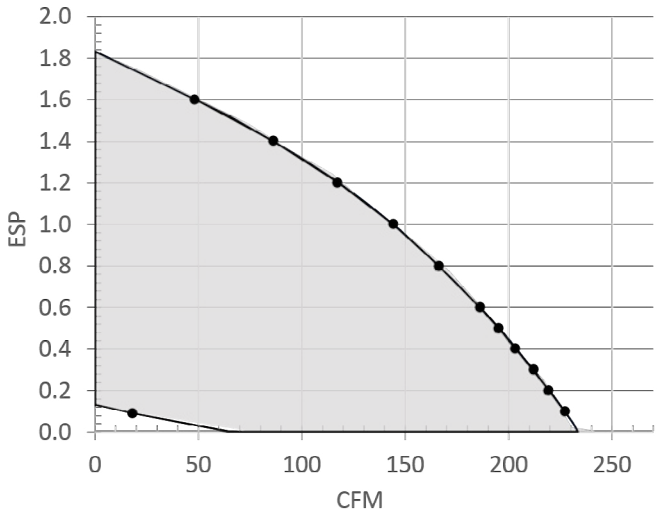
Motor(s):
Qty. 2, 115V EC motorized impellers

Accessories:
Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
Louvered wall vent with 8" round duct connection: 12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvanneal
Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
Push-button point-of-use controls (PBL), PTL req'd.
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–6 kW); designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	**External Static Pressure (Inches Water Column)**	**Unit Power Consumption (Watts)**
Max. Speed		
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
Min. Speed		
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.



CORE PERFORMANCE

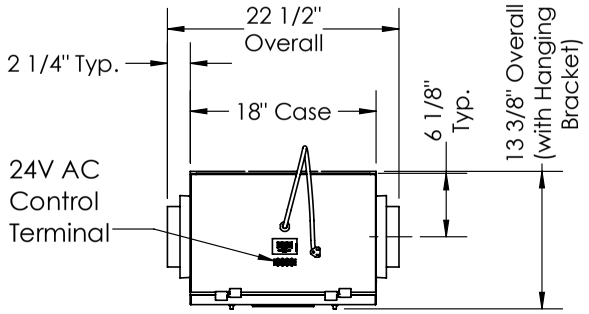
Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*
Max. Speed		
233	58	49/26
225	59	50/27
216	60	51/28
210	61	52/30
201	62	53/32
193	63	54/34
184	64	56/36
176	66	57/38
163	67	59/40
150	69	61/42
117	73	67/49
86	77	72/56
48	82	78/63
Min. Speed		
18	86	84/71

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

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 M Energy Recovery Ventilator EC Motor



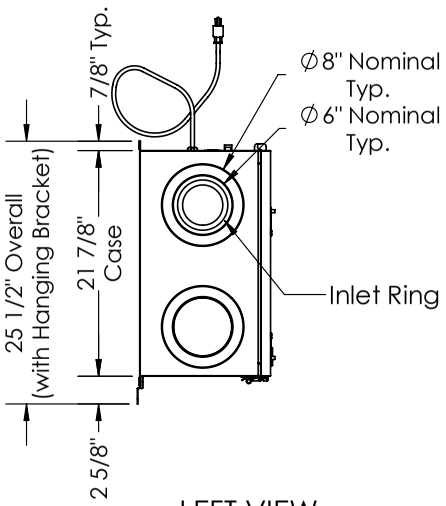
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

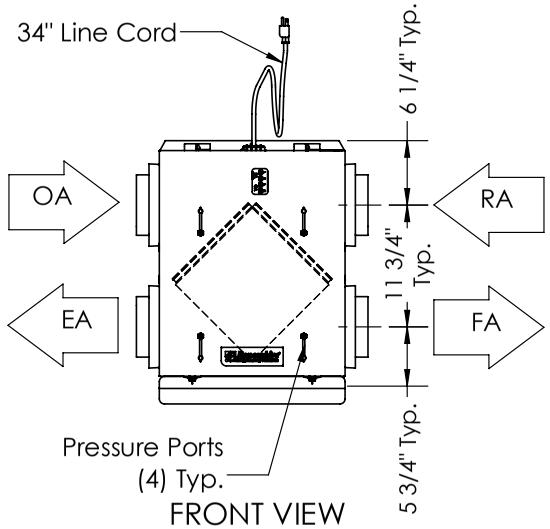
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

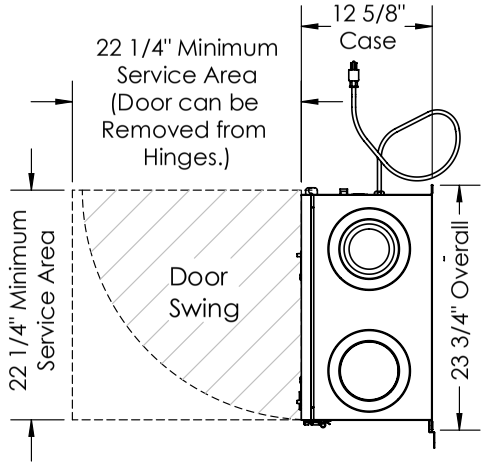
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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/FA airstream.

EV PREMIUM L

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.

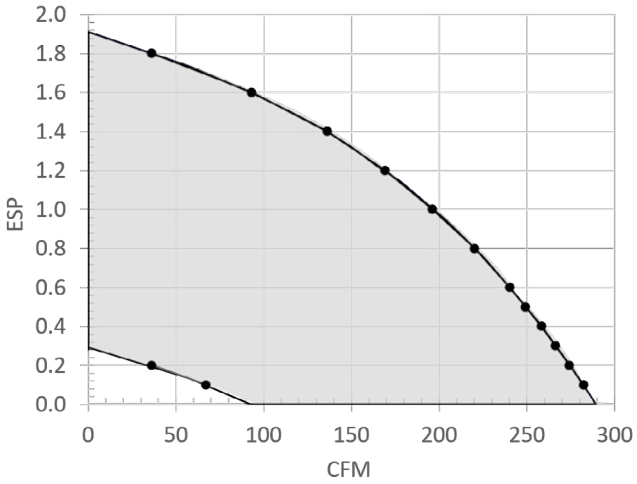
Motor(s):
Qty. 2, 115V EC motorized impellers

Accessories:
Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
Louvered wall vent with 8" round duct connection: 12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvanneal
Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
Push-button point-of-use controls (PBL), PTL req'd.
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–8 kW); designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	**External Static Pressure (Inches Water Column)**	**Unit Power Consumption (Watts)**
Max. Speed		
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
Min. Speed		
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

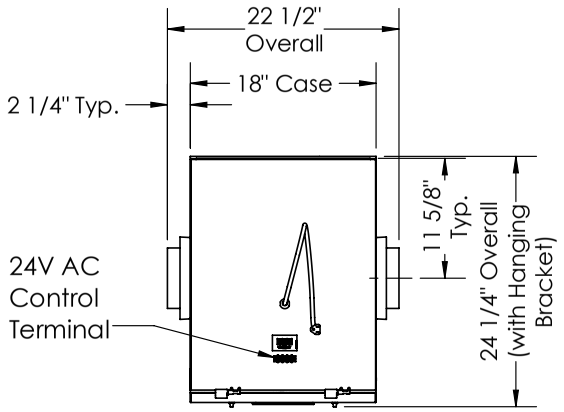
Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10

CORE PERFORMANCE

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer*
Max. Speed		
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
Min. Speed		
67	85	81/67
36	86	83/69

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

EV Premium L Energy Recovery Ventilator EC Motor



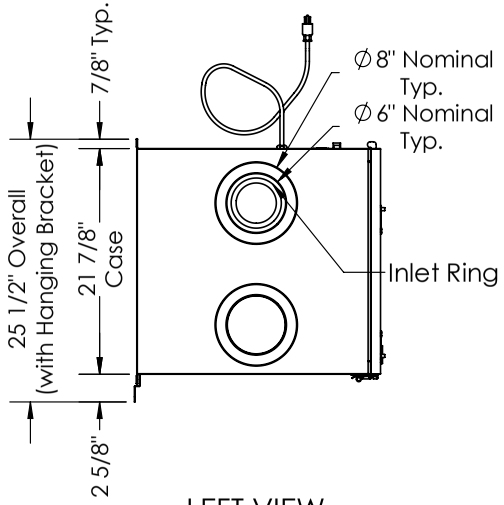
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

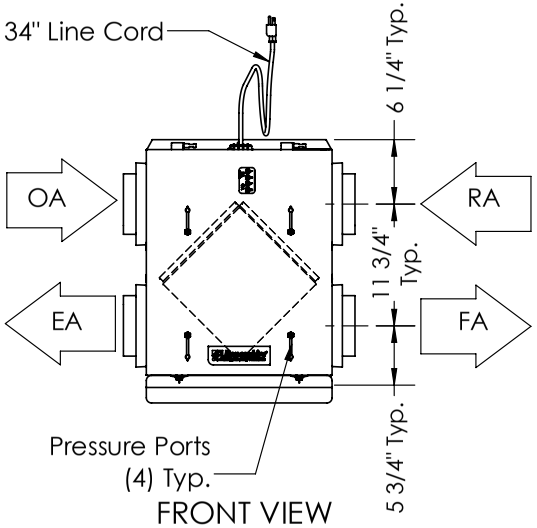
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

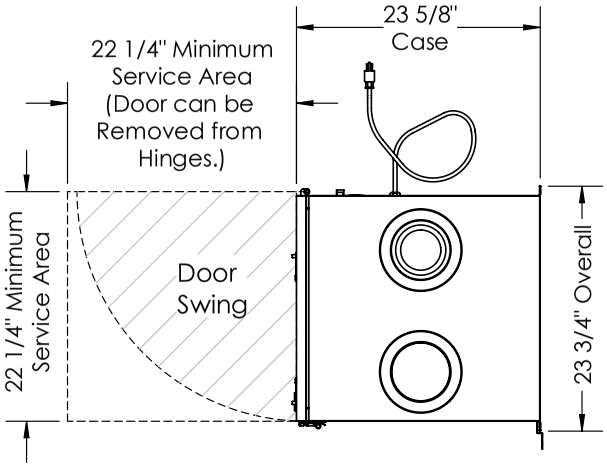
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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/FA airstream.

EV 90

Energy Recovery Ventilator

INDOOR UNIT

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_2O
36	0.60
53	0.50
68	0.40
81	0.30
93	0.20
108	0.10

CORE PERFORMANCE

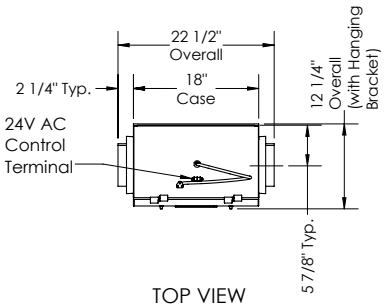
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
36	78	75/65
53	74	69/58
68	70	65/53
81	67	61/49
93	64	58/45
108	61	55/42

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

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/FA airstream.



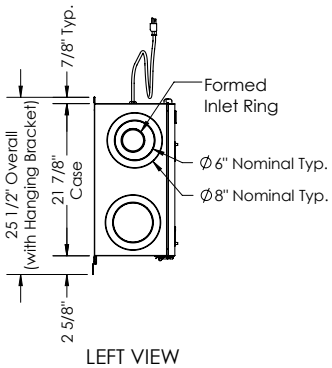
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

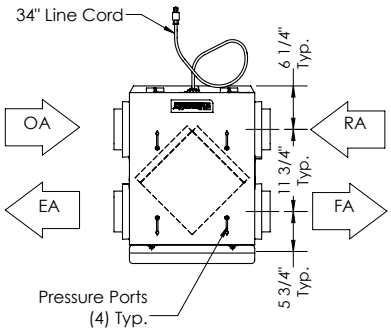
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

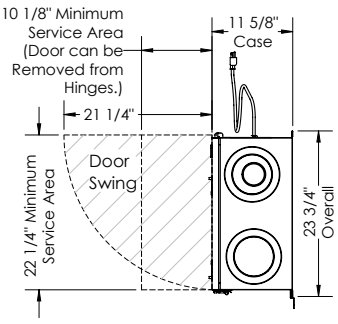
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

RenewAire Energy Recovery Ventilation

EV 90P

Energy Recovery Ventilator

HVI 2100 CERTIFIED

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

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-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: 51 lbs.

Max. Shipping Dimensions & Weight (in carton):
33" L x 22" W x 29" H
65 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	44 @ 90 CFM	0.35

UNIT PERFORMANCE

Airflow CFM	ESP in H_2O
42	0.60
55	0.50
74	0.40
87	0.30
100	0.20
108	0.10

CORE PERFORMANCE

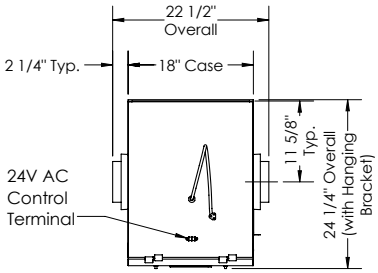
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
42	86	83/71
55	85	82/70
74	84	80/68
87	83	79/67
100	82	78/66
108	82	78/65

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 33 of Single/Multi-Family Catalog.

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/FA airstream.



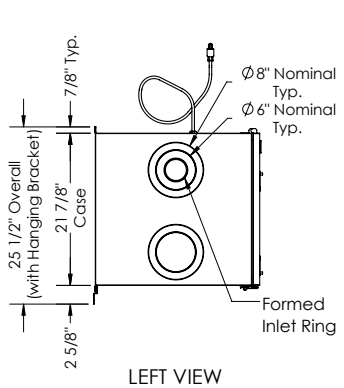
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

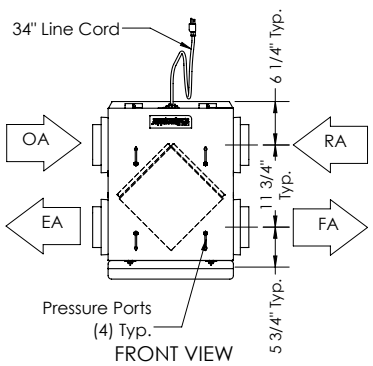
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

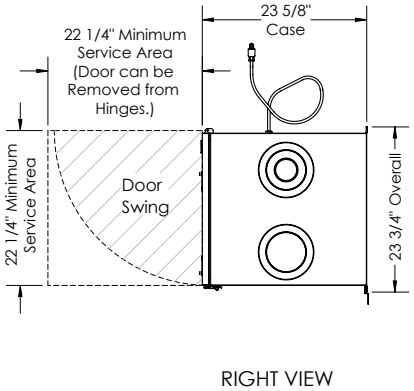
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

EV 130

Energy Recovery Ventilator

2100 HVI CERTIFIED

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

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
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 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
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 (1–5 kW); designed for indoor ductwork installation only

ELECTRICAL DATA

HP	Volts	Hz	Phase	Input Watts	FLA
0.1	120	60	Single	102 @ 130 CFM	1.3

UNIT PERFORMANCE

Airflow CFM	ESP in H_2O
78	0.60
104	0.50
125	0.40
136	0.30
153	0.20
163	0.10

CORE PERFORMANCE

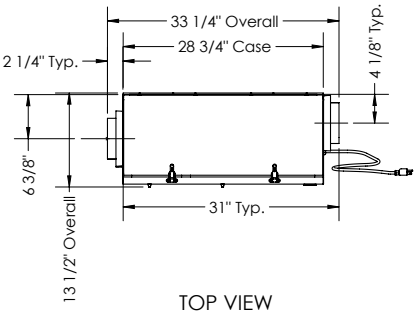
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
78	78	73/59
104	75	69/54
125	72	66/50
136	71	64/48
153	68	61/45
163	67	59/42

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 33 of Single/Multi-Family Catalog.

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/FA airstream.



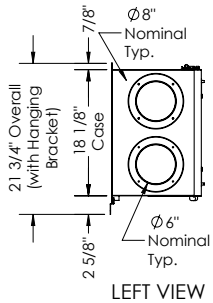
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

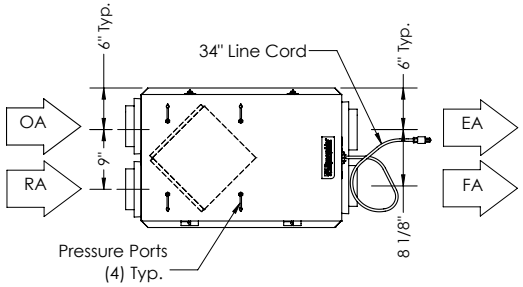
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

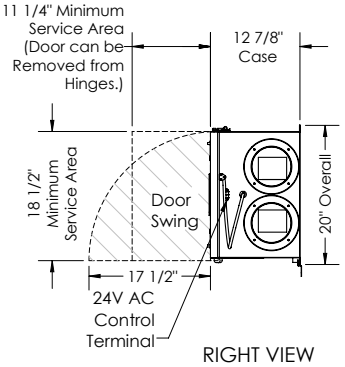
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

RenewAire Energy Recovery Ventilation

EV 200

Energy Recovery Ventilator

HVI CERTIFIED 2100

cULus LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

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_2O
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.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 33 of Single/Multi-Family Catalog.

UNIT DIMENSIONS

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

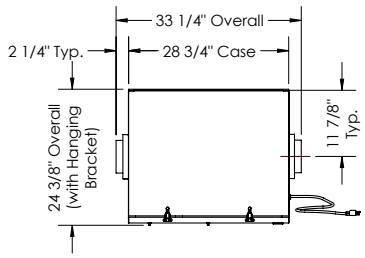
UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

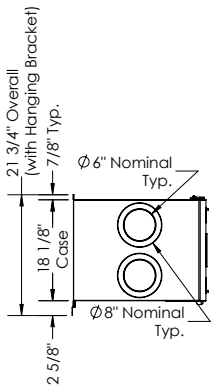
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

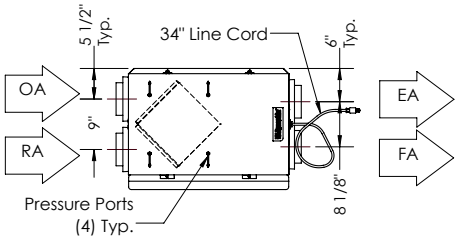
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



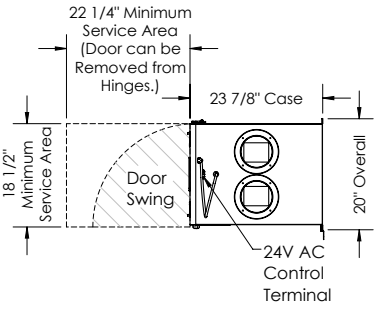
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

EV 240

Energy Recovery Ventilator

2100 HVI CERTIFIED

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

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 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 (1–8 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_2O
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

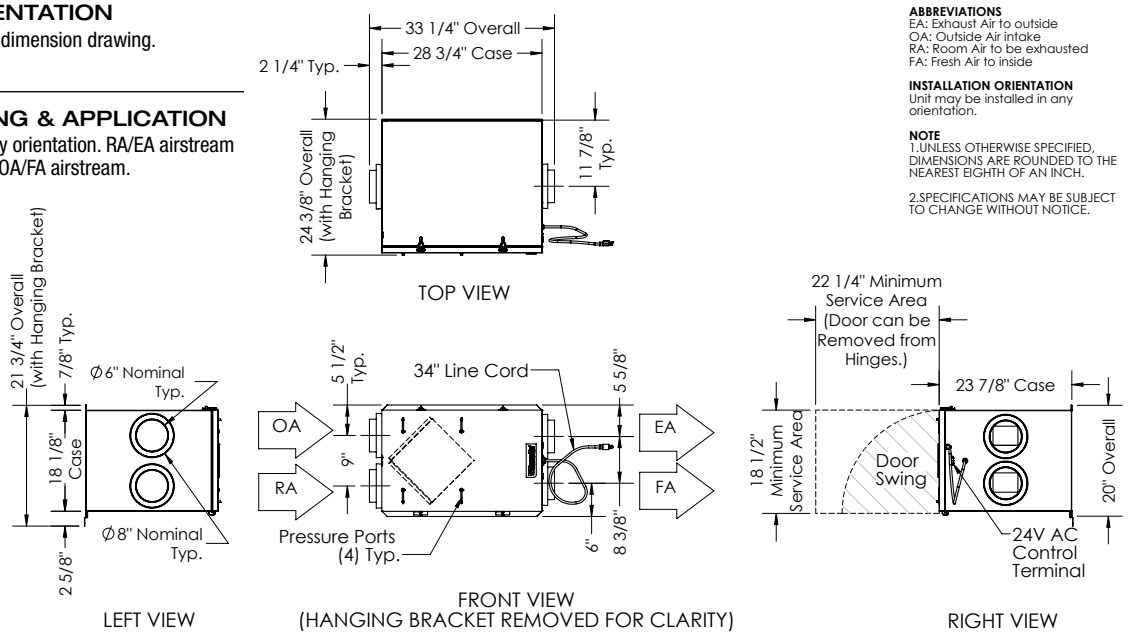
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
170	78	73/59
195	76	71/57
214	75	69/55
229	74	68/54
242	73	67/52
250	73	67/52
256	73	66/51
265	72	66/50

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 33 of Single/Multi-Family Catalog.

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/FA airstream.



ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh 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.

RenewAire Energy Recovery Ventilation

EV 300

Energy Recovery Ventilator

HVI CERTIFIED 2100

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

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_2O
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.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 33 of Single/Multi-Family Catalog.

UNIT DIMENSIONS

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

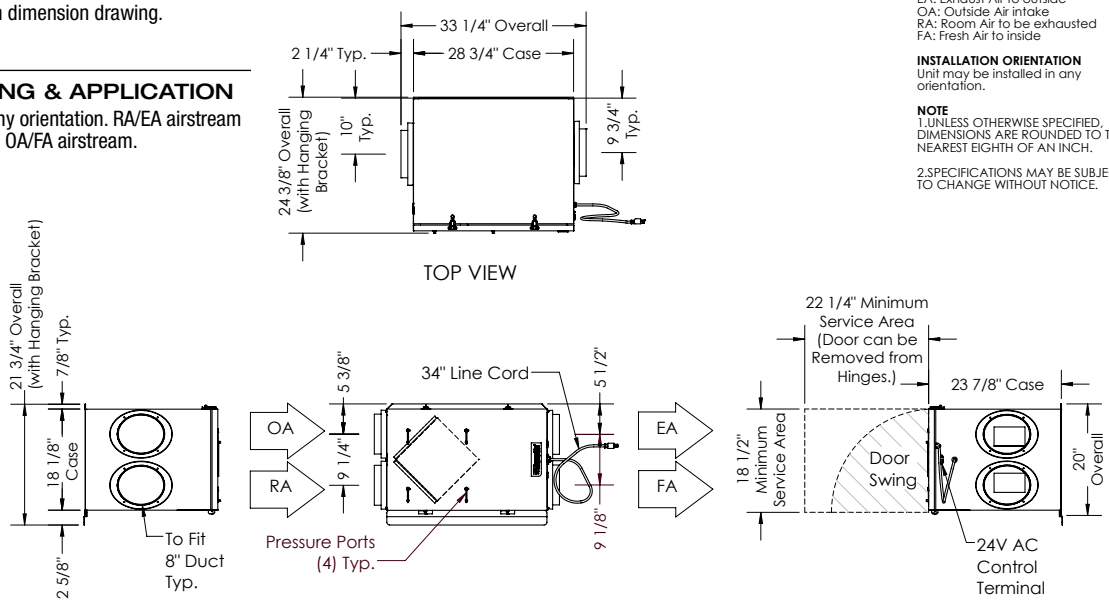
UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh 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.



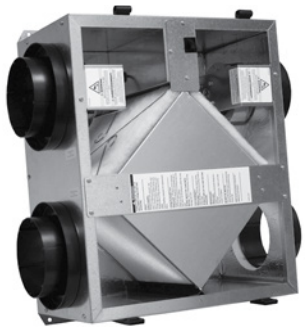
GR 90

Energy Recovery Ventilator

HVI CERTIFIED 2100

cULus LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT



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_2O
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.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 32 of Single/Multi-Family Catalog.

UNIT DIMENSIONS

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

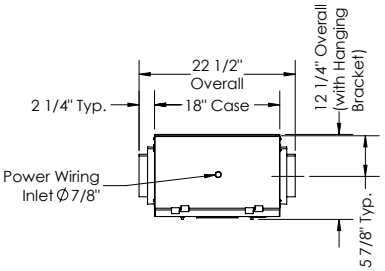
UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

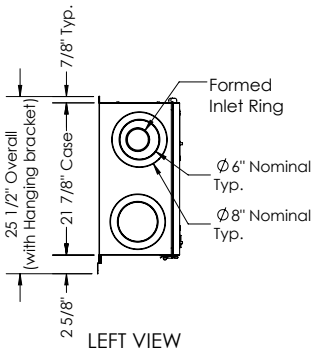
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

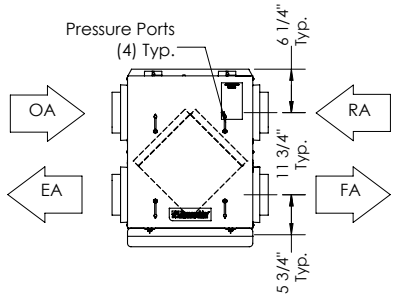
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



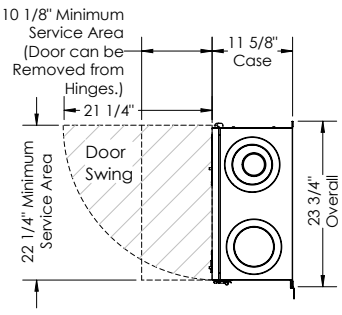
TOP VIEW



LEFT VIEW



FRONT VIEW



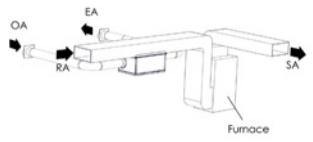
RIGHT VIEW

RenewAire Energy Recovery Ventilation

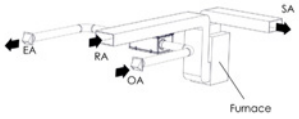
APPLICATIONS— COMMON INSTALLATION APPROACHES

BR Series (BR70 and BR130)

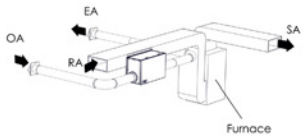
Bottom Hung Lengthwise



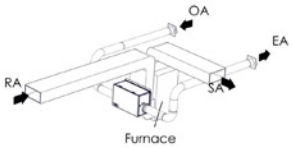
Bottom Hung Crosswise



Side Hung

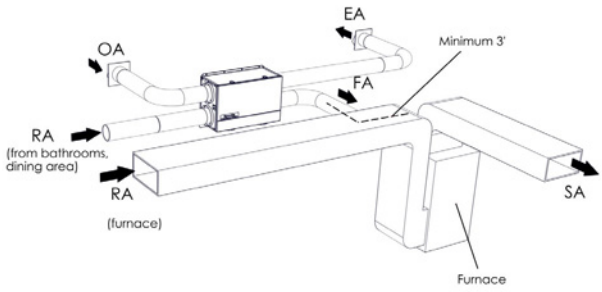


Return Drop Hung



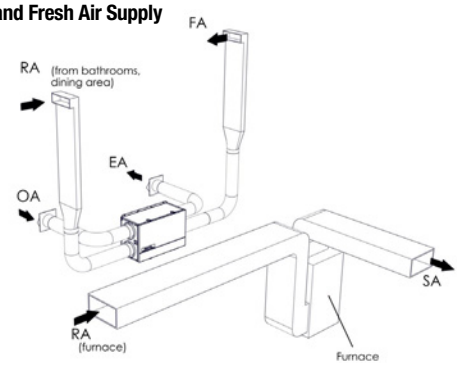
EV Series (EV130, EV200, EV240, and EV300)

Separate Room Air Pick-up—
Fresh Air to Furnace Return Air Trunkline



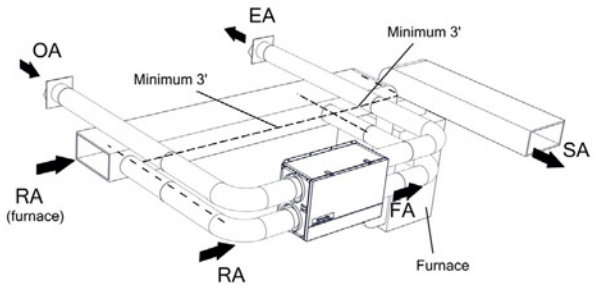
Note: ERV blower may be operated separate from furnace blower.

Separate Air and Fresh Air Supply



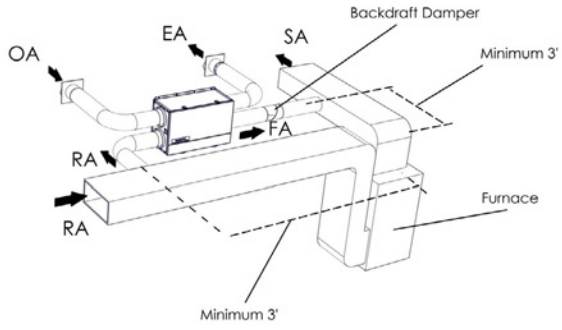
Note: ERV blower may be operated separate from furnace blower.

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.

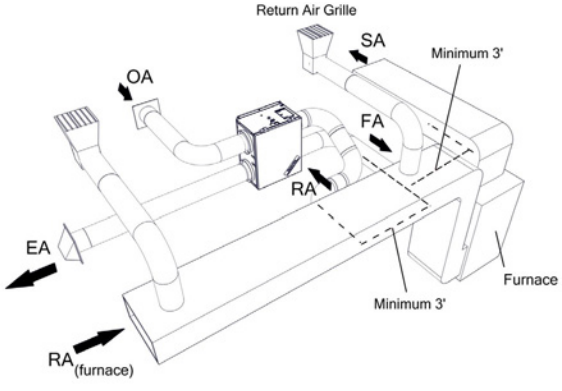
Furnace Return Air Back into Supply Air



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

EV Series (EV90, EV90P and EV Premium)

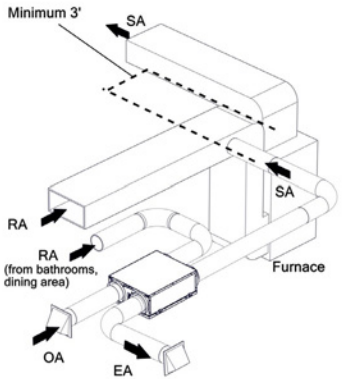
Furnace Return Air Back into Return Air



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.

SL Series (SL70H and SL70L)

Furnace Return Air Back into Return Air



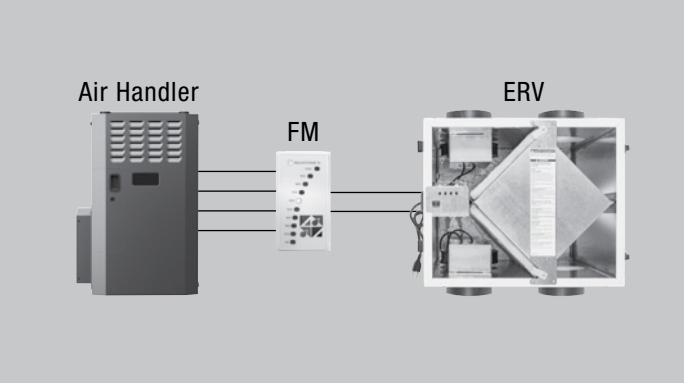
Note: ERV blower may be operated separate from furnace blower.

EA Exhaust Air; **OA** Outside Air; **RA** Room Air; **SA** Supply Air; **FA** Fresh Air

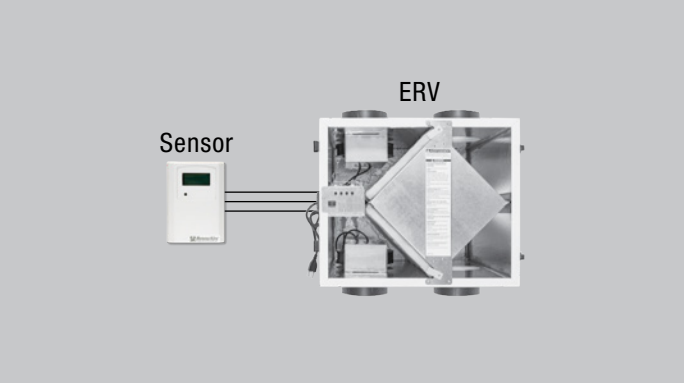
CONTROL STRATEGIES

See individual submittal pages for compatibility by model.

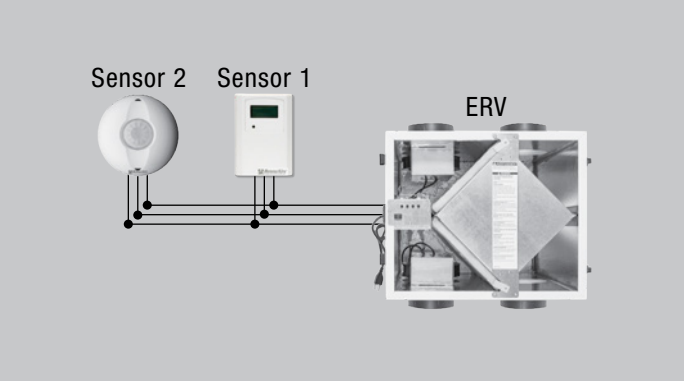
INTERLOCK WITH AIR HANDLER



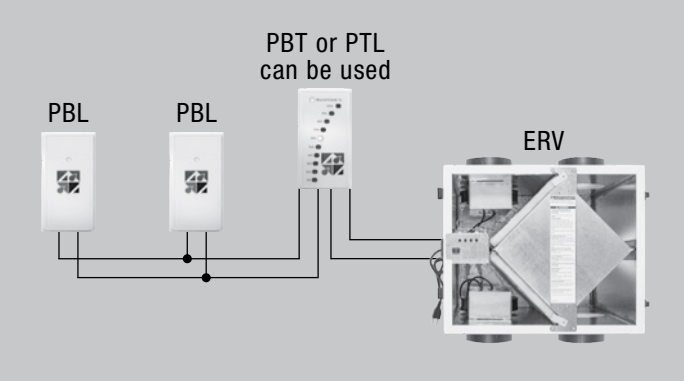
SINGLE CONTROL



MULTIPLE CONTROLS



PBT OR PTL WITH PBL



RenewAire Energy Recovery Ventilation

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 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 applied with external 24V supply

EV Premium 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

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

PERCENTAGE TIMER (PTL)

Primary control for SL70, EV90, EV90P, EV130, EV200, EV240, EV300 & 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 SL70, EV90, EV90P, EV130, EV200, EV240, EV300 & 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 SL70, EV90, EV90P, EV130, EV200, EV240, EV300 & 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 control

PBL Control — requires PTL Control

PUSH-BUTTON BOOST TIMER (PBT)

Optional boost control for SL70 & 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

Controls are continued on the next page.

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, EV90P, 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, EV90P, 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, EV90P, 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, EV90P, 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

RenewAire Energy Recovery Ventilation

ACCESSORIES

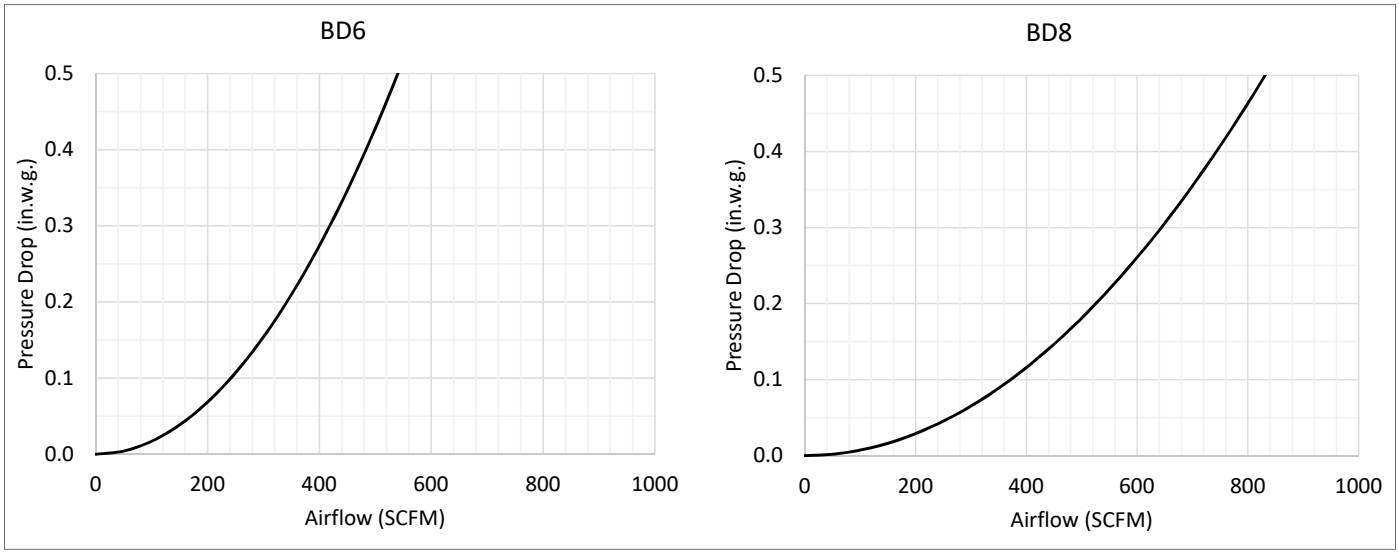
See individual submittal pages for compatibility by model.

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

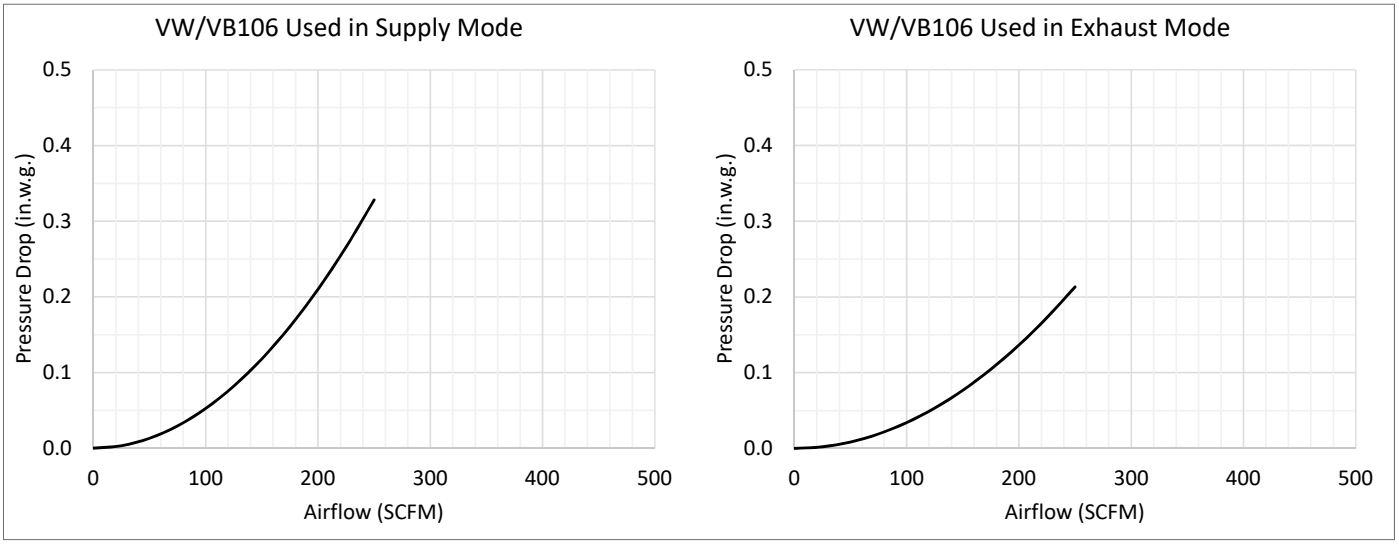
See individual submittal pages for compatibility by model.

Louvered Wall Vents

6" VINYL (VB106 & VW106)

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

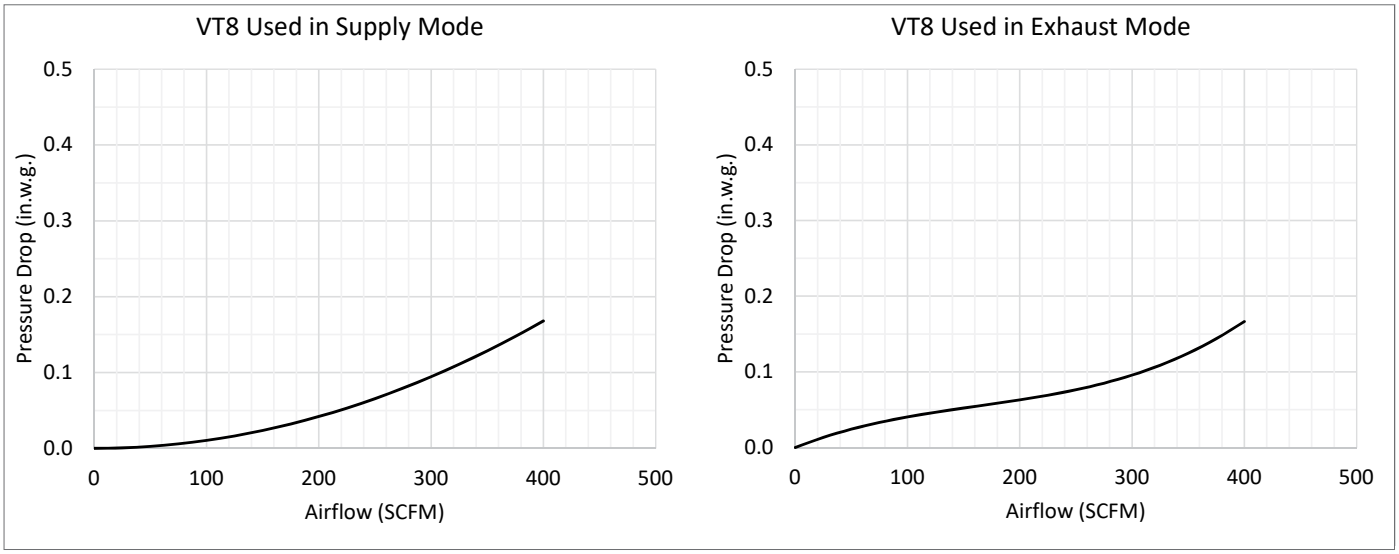
VB106 & VW106 PRESSURE DROP PERFORMANCE



8" VINYL (VT8)

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

VT8 PRESSURE DROP PERFORMANCE



RenewAire Energy Recovery Ventilation

ACCESSORIES

See individual submittal pages for compatibility by model.

Louvered Wall Vents

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

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

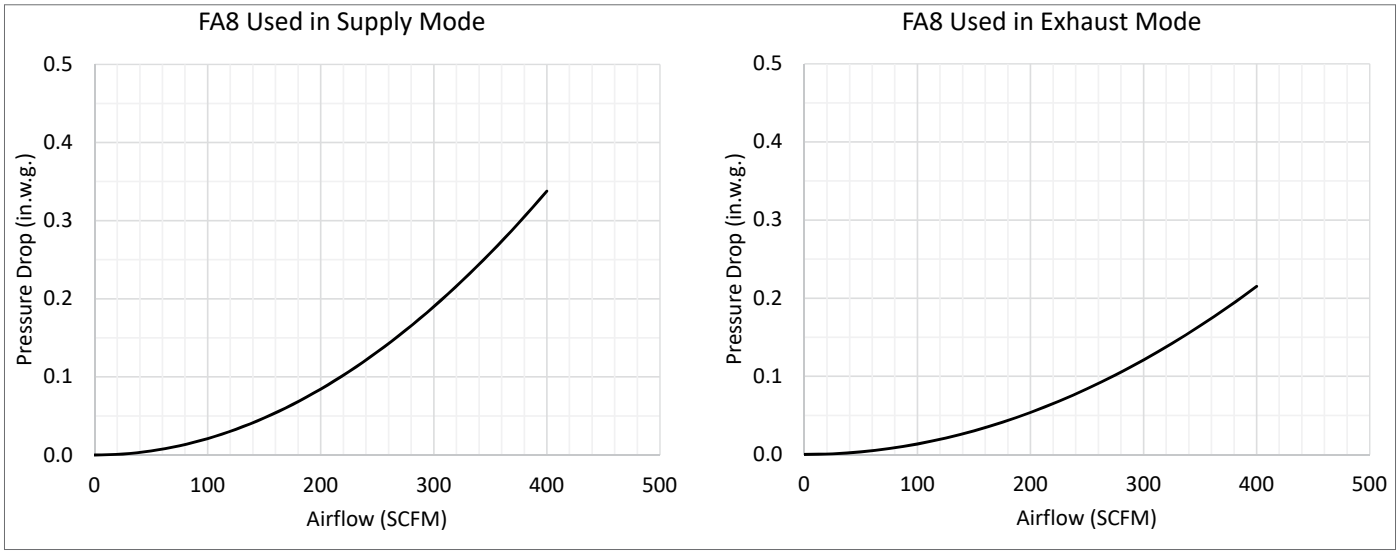
VW12X8 PRESSURE DROP PERFORMANCE

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

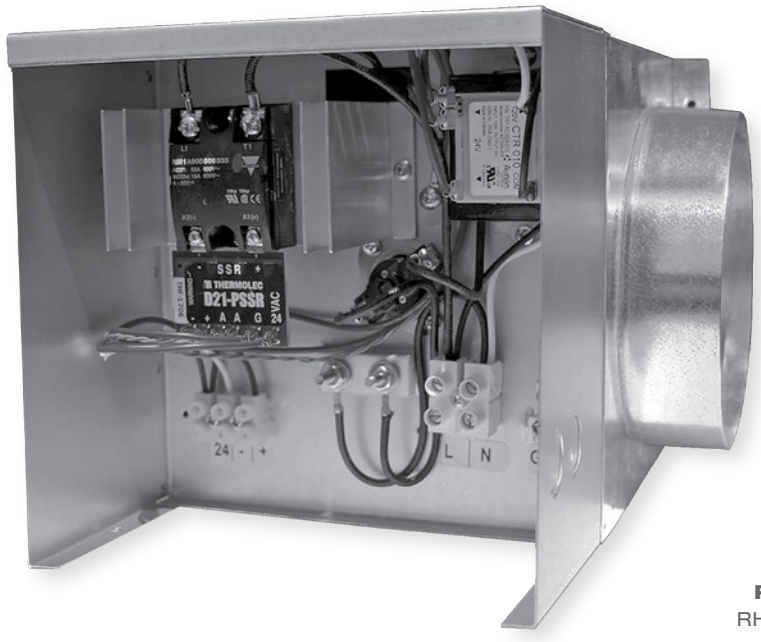


ACCESSORIES

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.

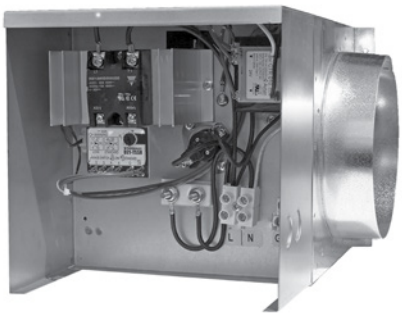
RH SERIES

Electric Duct Heater (1–11.5 kW)

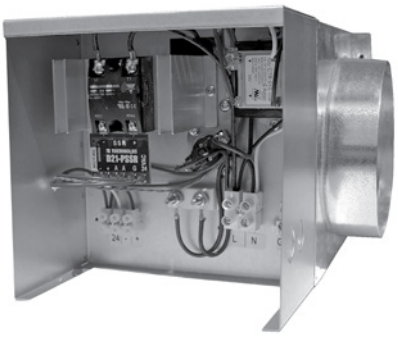
Accessory

C US
LR 30551

ELECTRIC DUCT HEATER



RH-D (Integral Thermostat)



RH-W (Wall-Mount Thermostat)

SPECIFICATIONS

Heater Type:
Electric Duct Heater

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

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

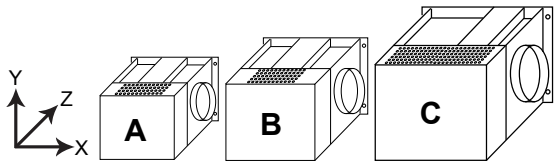
Control Voltage:
24VAC

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

Standard Features:
Open-coil element
High-grade, nickel-chrome element wire
Thermostat: Integral (RH-D),
Wall mount (RH-W)
Modulating heat output (SCR control)
Vertical or horizontal operation
Automatic limit switch for primary
over-temperature protection
Manual reset limit switch for secondary
over-temperature protection
Airflow sensor
Standard control transformer: 24VAC
Corrosion-resistant galvanized steel
Round duct collars
High-voltage terminal block connections
Grounding lug
Mounting flanges

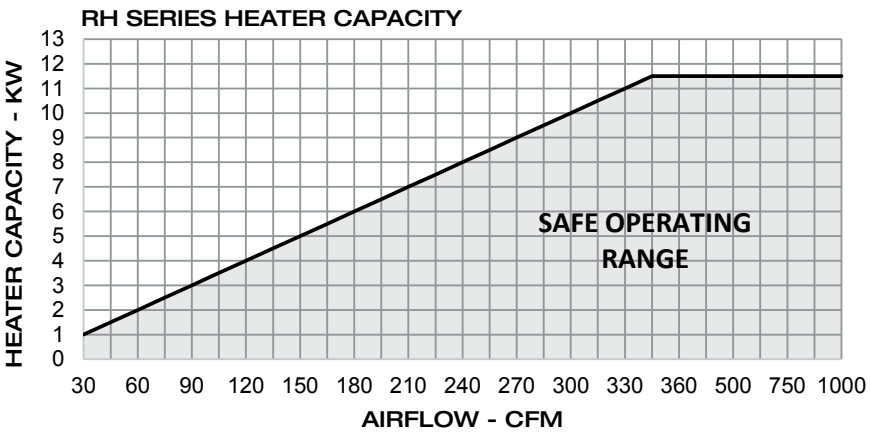
Accessories:
Temperature sensor: Duct mount (DS-600)
Digital time clock: wall mount (TC7D-W),
in exterior enclosure (TC7D-E)
Motion occupancy sensor/control:
ceiling mount (MC-C), wall mount (MC-W)

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



Duct 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



HVI TESTED/CERTIFIED
PER CSA C439

SL70L/SL70H—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	48	102	51	108	54	114
50	0.2	45	95	48	102	52	110
75	0.3	43	91	45	95	51	108
100	0.4	41	87	44	93	49	104
125	0.5	40	85	42	89	47	100
150	0.6	38	81	40	85	44	93
175	0.7	36	76	38	81	40	85
200	0.8	33	70	35	74	36	76
225	0.9	29	61	31	66	31	66
250	1.0	24	51	26	55	24	51

SL70L/SL70H—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°	25	53	30	64	68	63
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	25	53	30	56	58	

BR130—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	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
175	0.7	24	51	25	53	21	44

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°	58	123	121	72	78	55
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	59	125	121	46	48	

EV Premium S—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	65	138	69	146	68	144
50	0.2	62	131	65	138	64	136
75	0.3	59	125	62	131	61	129
100	0.4	56	119	59	125	57	121
125	0.5	53	112	56	119	54	114
150	0.6	50	106	52	110	50	106
175	0.7	46	97	49	104	46	97
200	0.8	43	91	45	95	42	89
225	0.9	39	83	41	87	37	78
250	1.0	35	74	37	78	32	68

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 M—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	110	233	113	239	111	235
50	0.2	106	225	109	231	107	227
75	0.3	102	216	105	222	103	218
100	0.4	99	210	102	216	99	210
125	0.5	95	201	98	208	95	201
150	0.6	91	193	94	199	90	191
175	0.7	87	184	90	191	86	182
200	0.8	83	176	85	180	81	172
225	0.9	77	163	80	170	75	159
250	1.0	71	150	73	155	69	146

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	28	78	83	69
0°	32°	48	102	48	74	77	60
0°	32°	71	150	94	67	72	52
0°	32°	93	197	172	64	69	45
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	24	51	28	61	63	

EV Premium L—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	136	288	140	297	142	301
50	0.2	132	280	136	288	138	292
75	0.3	127	269	132	280	133	282
100	0.4	123	261	127	269	128	271
125	0.5	119	252	123	261	123	261
150	0.6	115	244	118	250	118	250
175	0.7	110	233	114	242	113	239
200	0.8	105	222	108	229	108	229
225	0.9	100	212	103	218	102	216
250	1.0	94	199	97	206	97	206

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°	29	61	25	83	86	77
0°	32°	57	121	45	79	82	70
0°	32°	95	201	124	72	77	60
0°	32°	107	227	182	70	76	57
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	29	61	25	72	74	

EV90/GR90—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	51	108	52	110	50	106
50	0.2	44	93	46	97	44	93
75	0.3	38	81	39	83	40	85
100	0.4	32	68	32	68	35	74
125	0.5	25	53	25	53	30	64
150	0.6	17	36	18	38	26	55

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°	42	89	42	64	67	37
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	42	89	38	46	48	

HVI TESTED/CERTIFIED
PER CSA C439

EV90P—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	51	108	52	110	52	110
50	0.2	47	100	48	102	47	100
75	0.3	41	87	42	89	42	89
100	0.4	35	74	36	76	36	76
125	0.5	26	55	27	57	27	57
150	0.6	20	42	20	42	21	44

EV90P—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°	42	89	44	80	83	64
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	42	89	44	63	71	

EV130—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	L/S	CFM	L/S	CFM
25	0.1	77	163	79	167	79	167
50	0.2	72	153	73	155	73	155
75	0.3	64	136	66	140	66	140
100	0.4	59	125	61	129	61	129
125	0.5	49	104	50	106	50	106
150	0.6	37	78	38	81	38	81

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°	61	129	102	71	75	53
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	61	129	102	48	51	

EV200—Ventilation Performance

Ext. Static Pressure		Net Supply Airflow		Gross Airflow			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	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			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	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			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	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			
				Supply		Exhaust	
Pa	in. wg	L/S	CFM	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	

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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:
RenewaireSupport@renewaire.com

PHONE:
1.800.627.4499

FAX:
608.221.2824

TO PLACE AN ORDER:
CORES.renewaire.com
or
RenewaireOrders@renewaire.com

RenewAire Energy Recovery Ventilation

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 fresh 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.

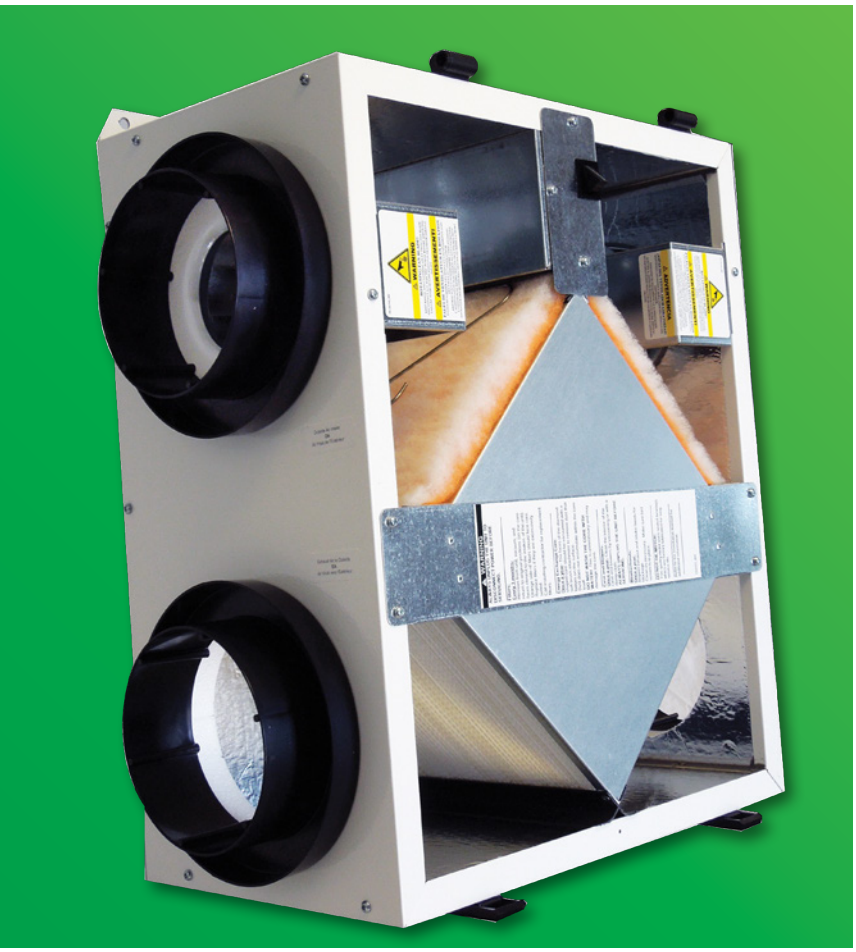
RETAIL
The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales.

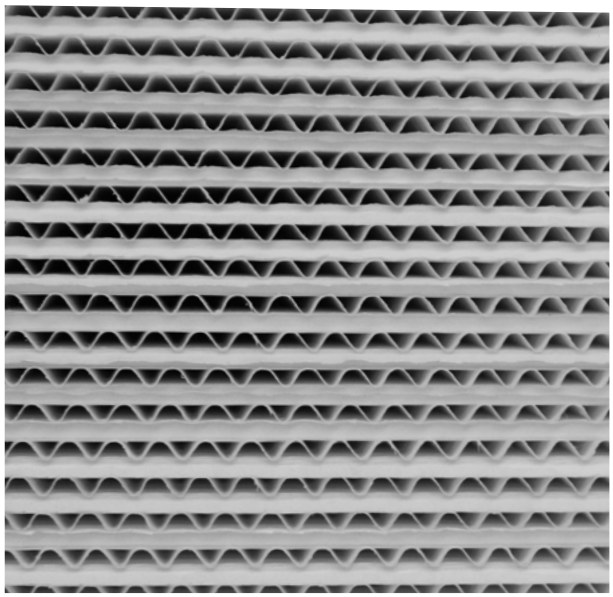
DAYCARE
Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable.

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.

Soler&Palau Ventilation Group

Member of the S&P Group Family of Brands

RenewAire® Energy Recovery Ventilation

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