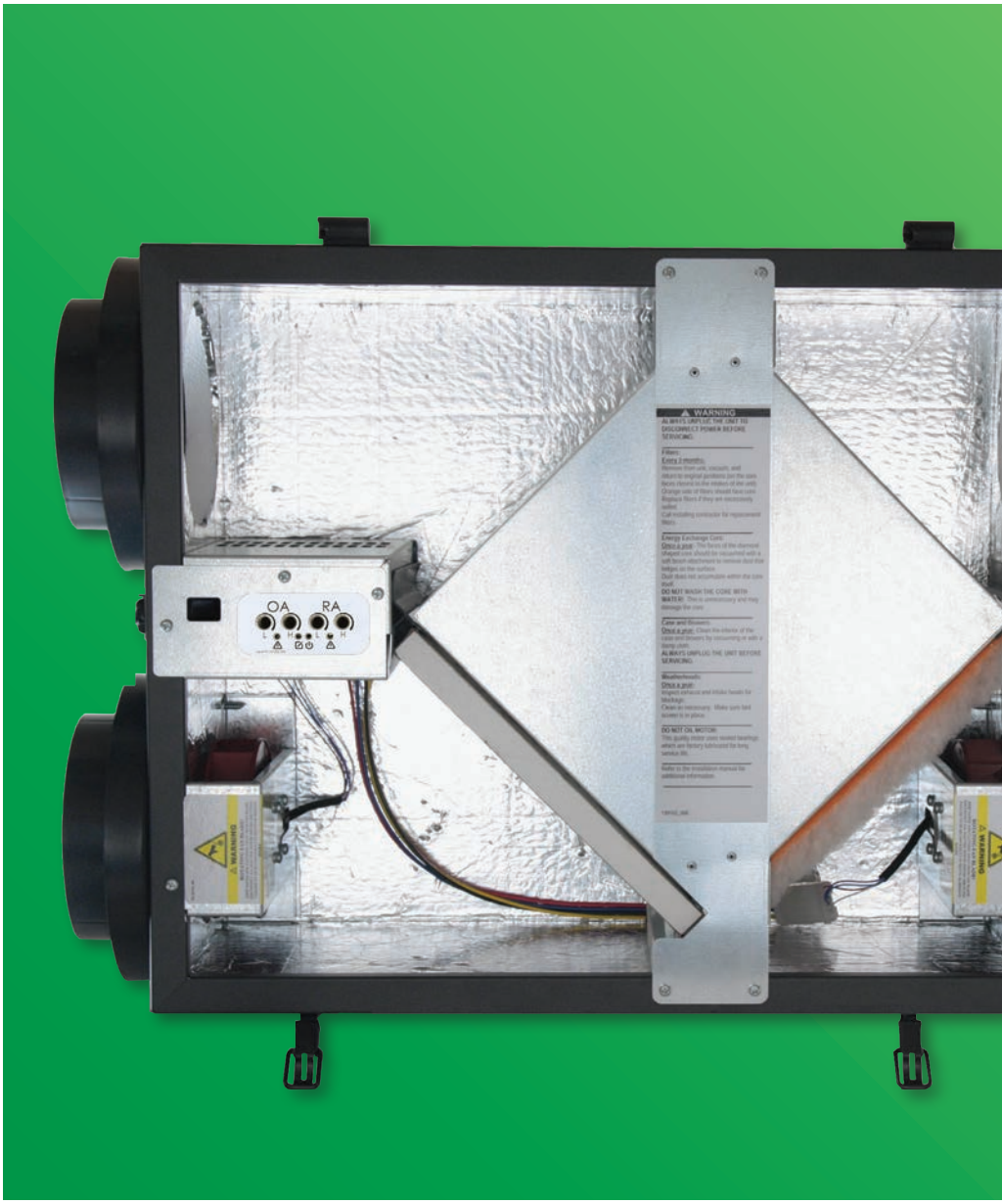
RenewAire®
Energy Recovery Ventilation

ERV



SL, BR, GR & EV SERIES

SINGLE/MULTI-FAMILY ERV CATALOG

JANUARY 2020

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.**

TABLE OF CONTENTS

SL SERIES - Unitary ERV

*Continuous mode range

BR SERIES - Unitary (Two Duct) ERV

GR SERIES - Unitary ERV

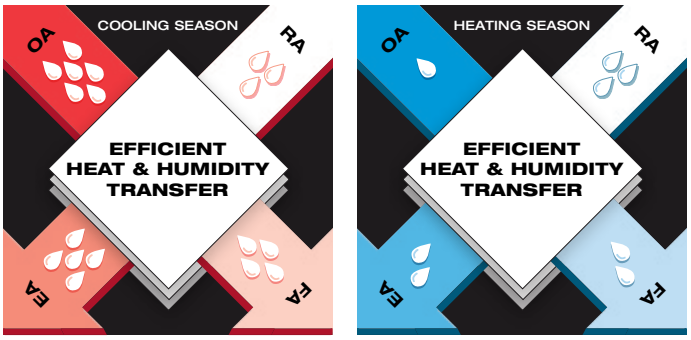
EV SERIES - Unitary ERV

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.

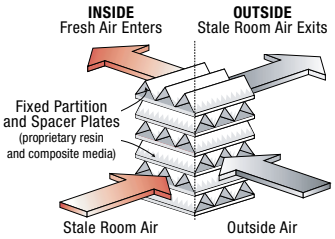
OPTIMIZING ENERGY EFFICIENCY

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 size and needs can be decreased and furnaces and air conditioners can be smaller. This process ensures efficient operations and keeps both energy use and costs low, while at the same time 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 ERV models
- Due to competitive pricing and decreased costs, payback is short and ROI is maximized
- Contractors can pass these significant savings along to their customers

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

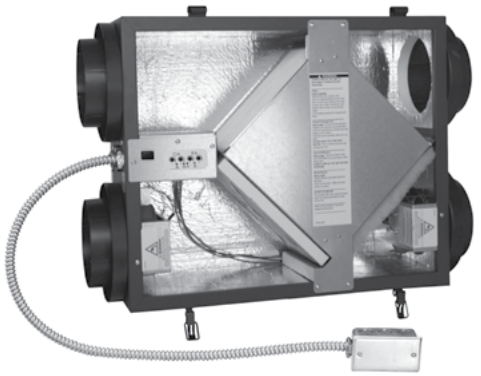
HIGHLY CERTIFIED

- See individual catalog submittal for certification details:
  - UL
  - cUL
  - ETL
  - HVI
  - AHRI

SL 70H

Energy Recovery Ventilator
EC Motor Standard

INDOOR UNIT



Download specification at:
renewaire.com/specifications

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 electrical 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 Dimensions & Weight:
27 1/4" L x 20 3/8" W x 9 1/2" H
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 DC motorized impeller packages

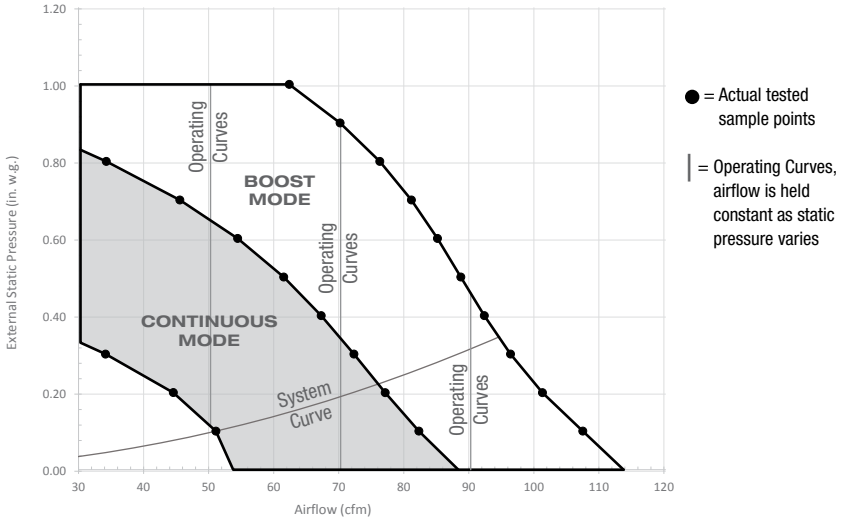
Accessories:
Backdraft damper 6", 8"
Automatic balancing damper 4", 5", 6"
Louvered wall vent 6" - white, brown
Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control - wall mount (CO2-W)
IAQ sensor - wall mount (IAQ-W)
Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
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
Wall bracket kit
Electric duct heater - RH series (1-4 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the SL70H.

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

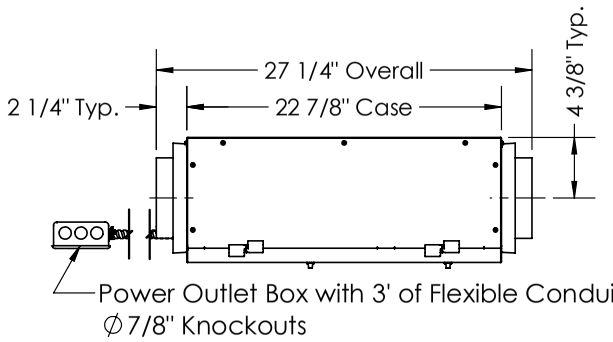
Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 of Single/Multi-Family Catalog.

ELECTRICAL DATA

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

Specifications may be subject to change without notice.

SL70H Energy Recovery Ventilator EC Motor Standard



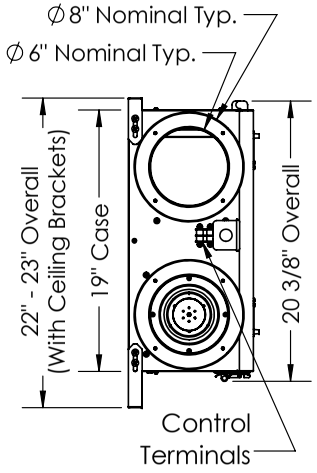
TOP VIEW

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

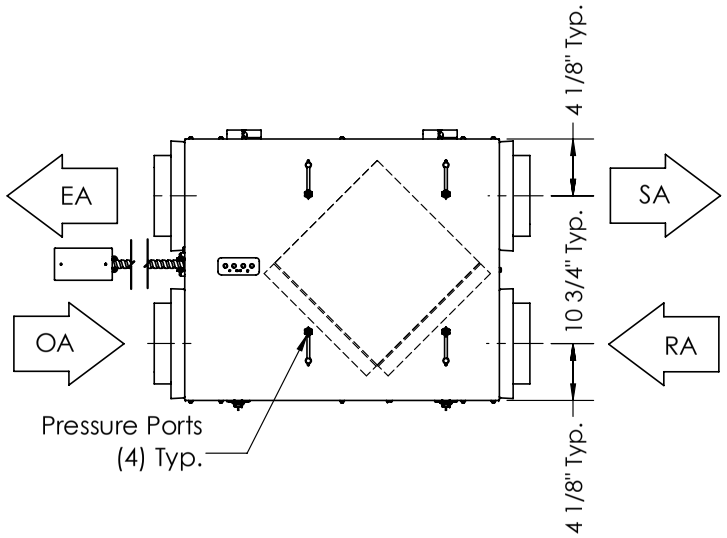
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

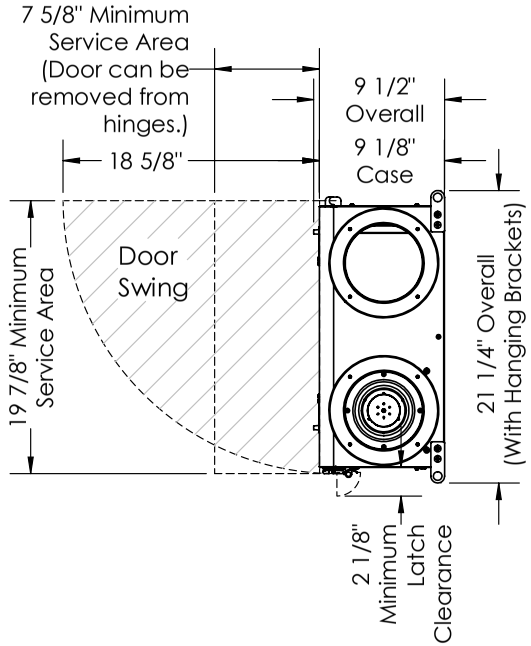
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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 Standard

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 Dimensions & Weight:
27 1/4" L x 20 3/8" W x 9 1/2" H
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 DC motorized impeller packages

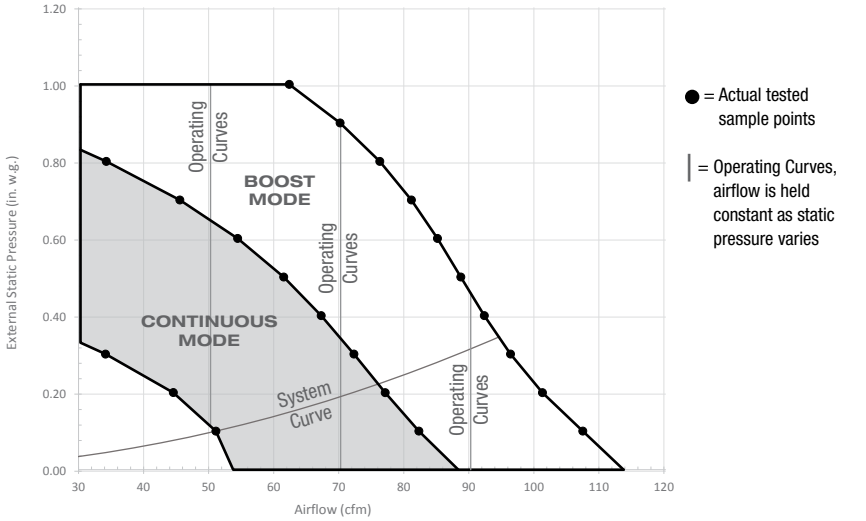
Accessories:
Backdraft damper 6", 8"
Automatic balancing damper 4", 5", 6"
Louvered wall vent 6" - white, brown
Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control - wall mount (CO2-W)
IAQ sensor - wall mount (IAQ-W)
Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
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
Wall bracket kit
Electric duct heater - RH series (1-4 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the SL70L.

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

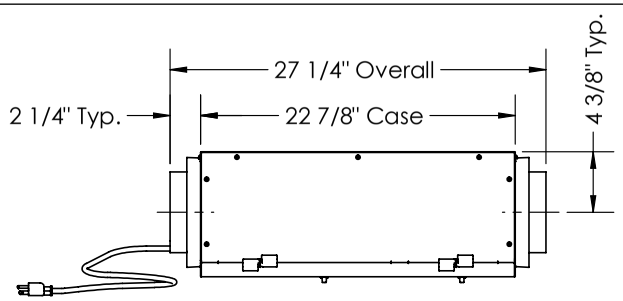
Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 of Single/Multi-Family Catalog.

ELECTRICAL DATA

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

Specifications may be subject to change without notice.

SL70L Energy Recovery Ventilator EC Motor Standard



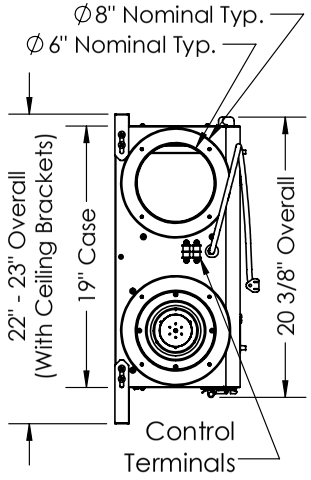
TOP VIEW

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

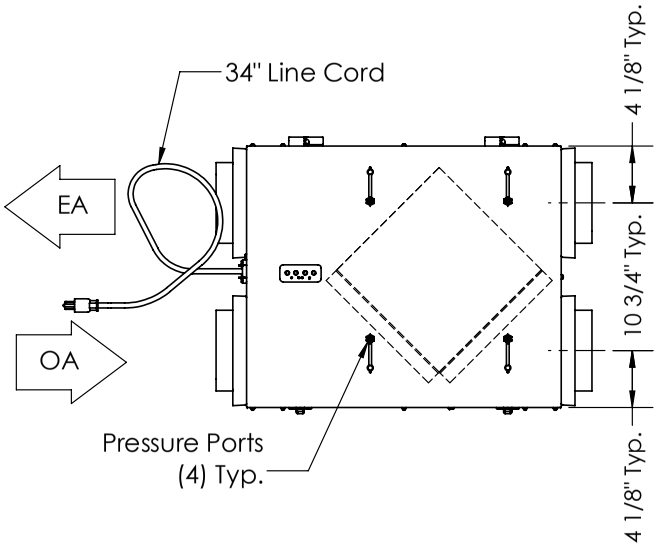
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

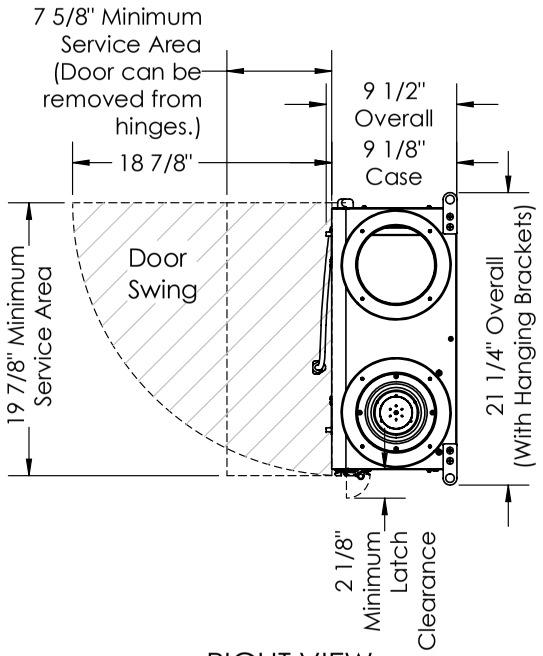
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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.

BR 70

Energy Recovery Ventilator
Standard

c UL us LISTED
DUCTED HEAT RECOVERY VENTILATOR
89S5

INDOOR UNIT
Duct Mounted or Thru-the-Wall

Download specification at:
renewaire.com/specifications

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 Dimensions & Weight:
29 3/4" L x 19 1/4" W x 10 3/4" H
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the BR70.

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

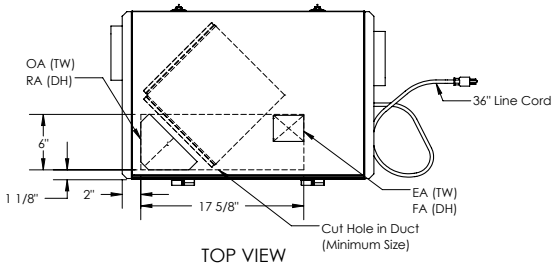
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
46	80	75/62
59	77	72/58
73	75	69/54
86	72	66/51

Note: These are core-only ratings and are not HVI certified. See performance ratings per CSA C439 on pg. 25 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

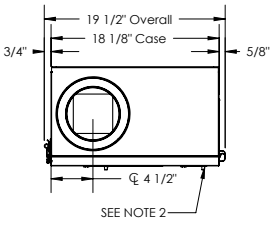
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

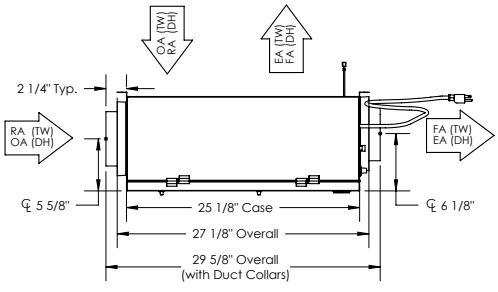
NOTE
1.UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

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

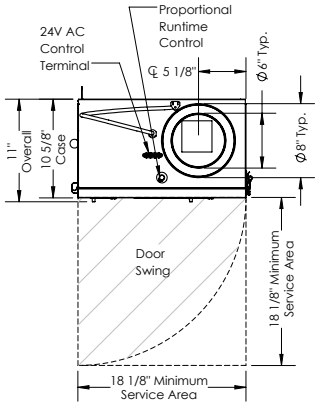
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

BR 130

Energy Recovery Ventilator
Standard

2100 HVI CERTIFIED

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT
Duct Mounted or Thru-the-Wall

Download specification at:
renewaire.com/specifications

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 Dimensions & Weight:
33 1/2" L x 19 1/4" W x 13 1/2" H
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the BR130.

BR-SERIES

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
52	0.70
69	0.60
94	0.50
113	0.40
132	0.30
141	0.20
148	0.10

CORE PERFORMANCE

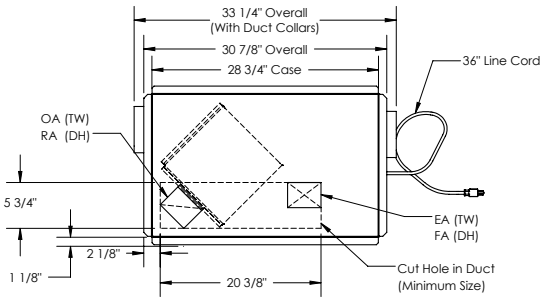
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
52	82	78/65
69	80	75/61
94	76	71/56
113	74	68/53
132	71	65/49
141	70	63/47
148	69	62/46

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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

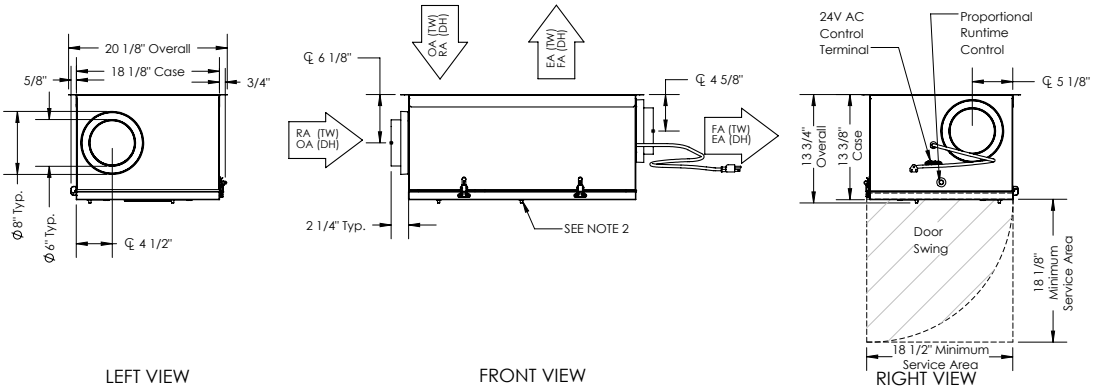
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

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.



Specifications may be subject to change without notice.

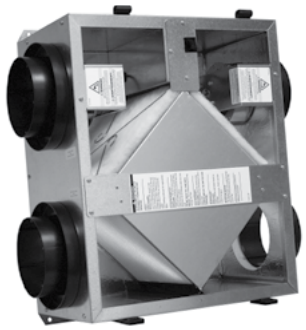
GR 90

Energy Recovery Ventilator
Standard

2100 HVI CERTIFIED

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT



Download specification at:
renewaire.com/specifications

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:
Galvanized cabinet
Terminal strip hard wiring in ebox (no line cord)
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 Dimensions: & Weight
22 1/2" L x 11 3/4" W x 23 3/4" H
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the GR90.

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
52	0.50
67	0.40
81	0.30
94	0.20
108	0.10

CORE PERFORMANCE

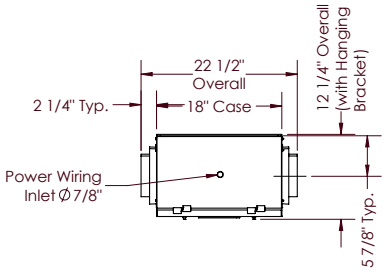
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
36	78	75/65
52	74	69/58
67	70	65/53
81	67	61/49
94	64	58/45
108	61	55/42

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



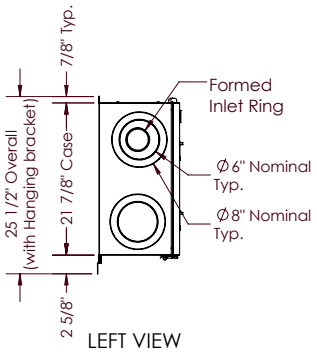
TOP VIEW

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

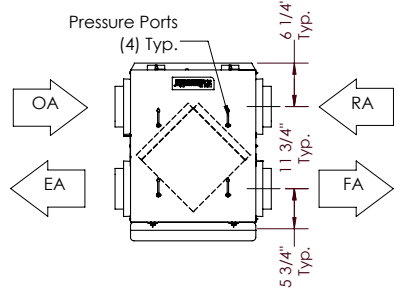
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

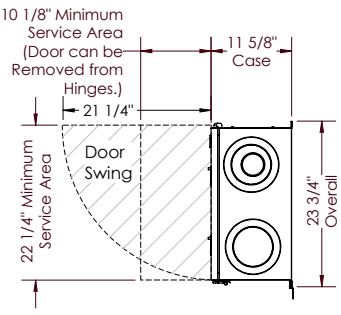
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

EV 90

Energy Recovery Ventilator
Standard

HVI CERTIFIED 2100

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
22 1/2" L x 11 3/4" W x 23 3/4" H
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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV90.

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
52	0.50
67	0.40
81	0.30
94	0.20
108	0.10

CORE PERFORMANCE

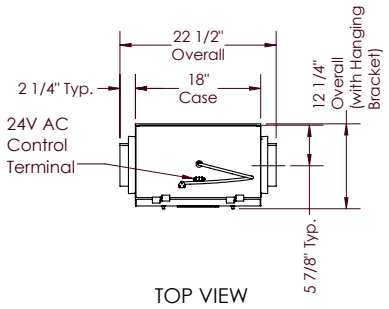
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
36	78	75/65
52	74	69/58
67	70	65/53
81	67	61/49
94	64	58/45
108	61	55/42

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



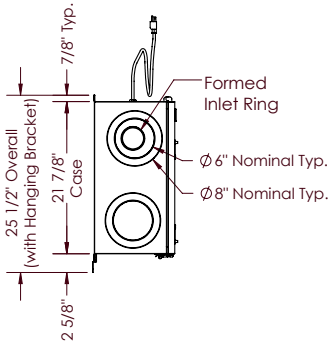
TOP VIEW

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

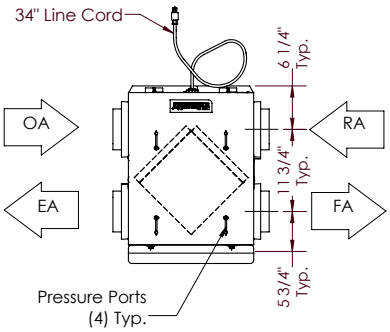
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

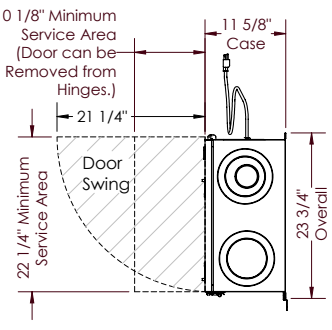
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

EV 90P

Energy Recovery Ventilator
Standard

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
22 1/2" L x 24" W x 23 3/4" H
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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV90P.

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_20
42	0.60
56	0.50
73	0.40
87	0.30
99	0.20
108	0.10

CORE PERFORMANCE

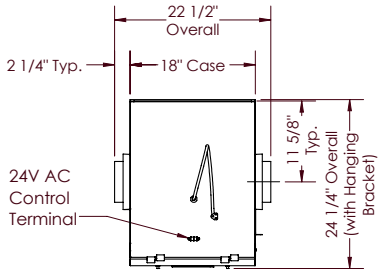
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
42	86	83/71
56	85	82/70
73	84	80/68
87	83	79/67
99	82	78/66
108	82	78/65

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



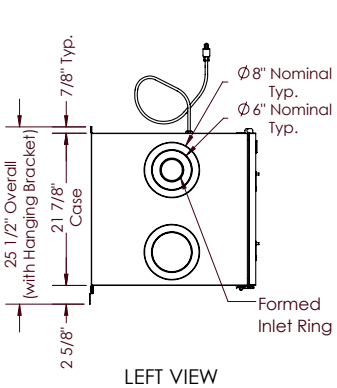
TOP VIEW

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

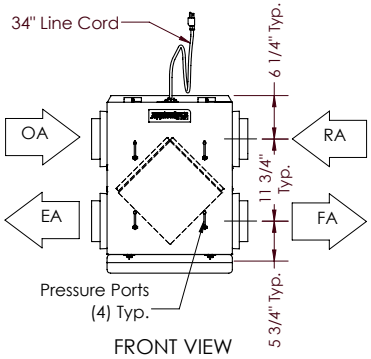
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

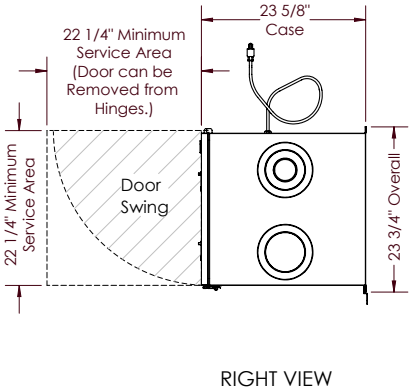
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

EV 130

Energy Recovery Ventilator
Standard

HVI CERTIFIED 2100

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
33 1/2" L x 13 1/4" W x 20" H
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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV130.

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
79	0.60
104	0.50
126	0.40
137	0.30
153	0.20
165	0.10

CORE PERFORMANCE

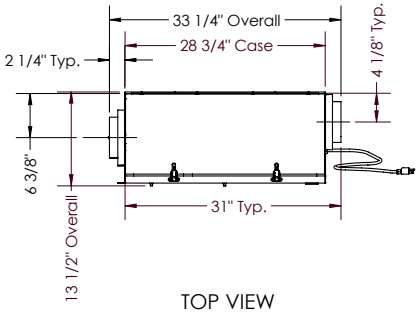
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
79	78	73/59
104	75	69/54
126	72	66/50
137	71	64/48
153	68	61/45
165	67	59/42

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



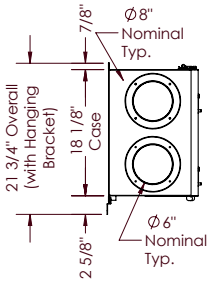
TOP VIEW

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

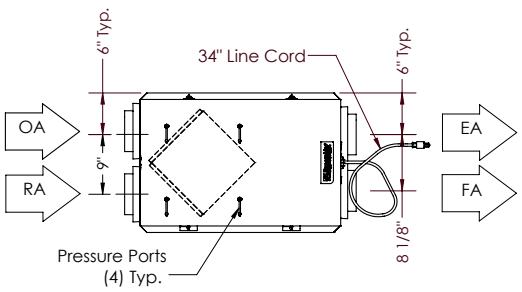
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

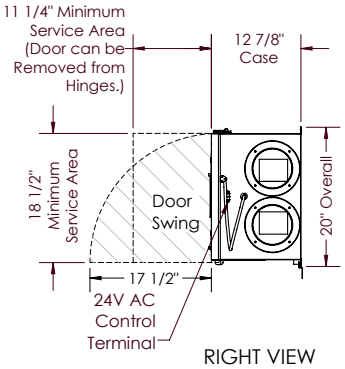
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

EV 200

Energy Recovery Ventilator
Standard

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
33 1/2" L x 24" W x 20" H
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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV200.

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
122	0.70
149	0.60
168	0.50
176	0.40
186	0.30
192	0.20
207	0.10

CORE PERFORMANCE

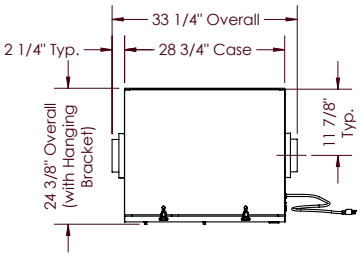
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
122	81	77/64
149	79	75/61
168	78	73/59
176	78	72/58
186	77	72/58
192	77	71/57
207	76	70/56

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



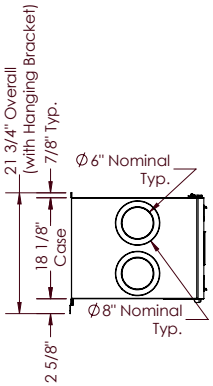
TOP VIEW

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

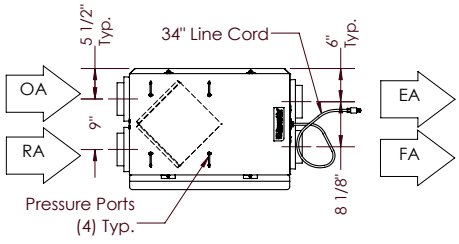
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

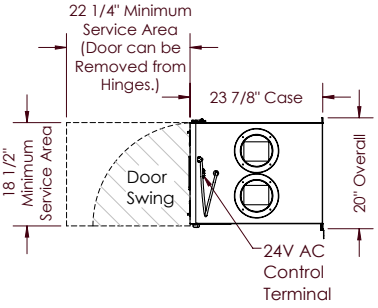
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

EV 240

Energy Recovery Ventilator
Standard

HVI CERTIFIED 2100

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
33 1/2" L x 24" W x 20" H
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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV240.

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

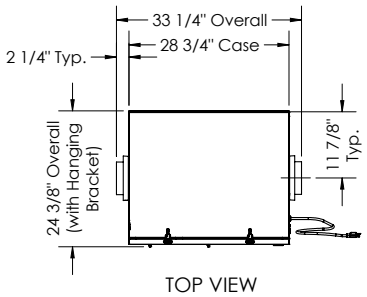
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
170	78	73/59
195	76	71/57
214	75	69/55
229	74	68/54
242	73	67/52
250	73	67/52
256	73	66/51
265	72	66/50

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 of Single/Multi-Family Catalog.

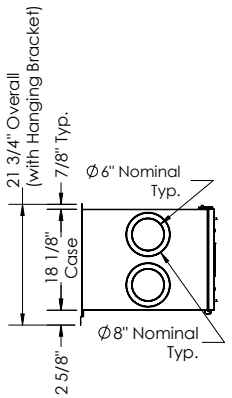
UNIT DIMENSIONS

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

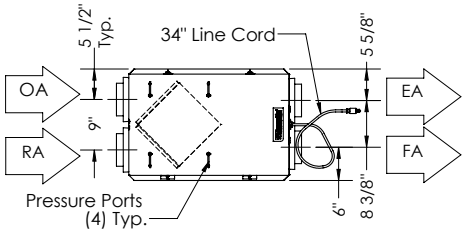
UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.



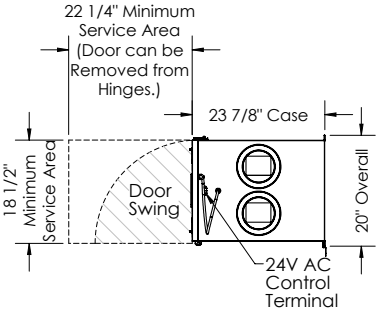
TOP VIEW



LEFT VIEW



FRONT VIEW
(HANGING BRACKET REMOVED FOR CLARITY)



RIGHT 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.

Specifications may be subject to change without notice.

EV 300

Energy Recovery Ventilator
Standard

INDOOR UNIT

Download specification at:
renewaire.com/specifications

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 24 VAC transformer/relay package with switched dry contacts

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

Unit Dimensions & Weight:
33 3/4" L x 24" W x 20" H
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 6", 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
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)
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
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV300.

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
215	0.8
256	0.7
277	0.6
295	0.5
311	0.4

CORE PERFORMANCE

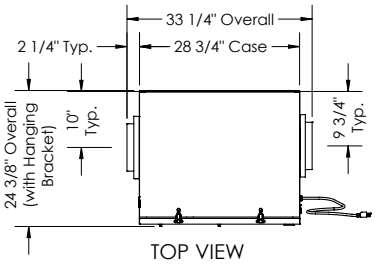
Airflow CFM	Temp EFF%	Total EFF% Winter/Summer*
170	78	73/59
191	77	71/57
215	75	69/55
256	73	66/51
277	71	65/49
295	70	63/47
311	69	62/46

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 24 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.



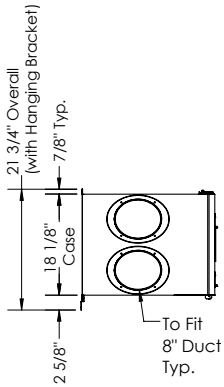
TOP VIEW

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

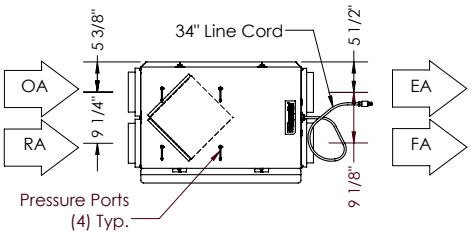
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

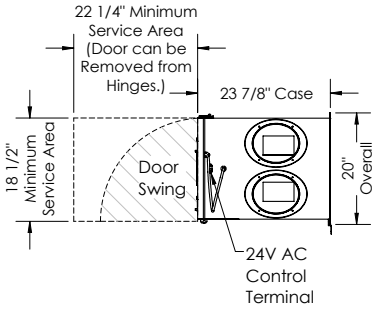
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

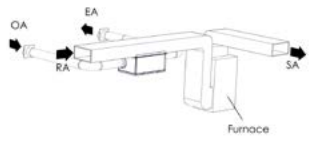
Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

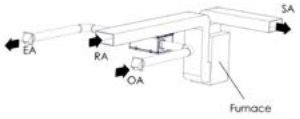
APPLICATIONS - COMMON INSTALLATION APPROACHES

BR Series (BR70 and BR130)

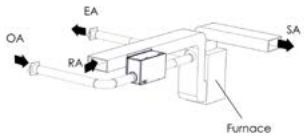
Bottom Hung Lengthwise



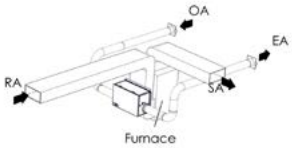
Bottom Hung Crosswise



Side Hung

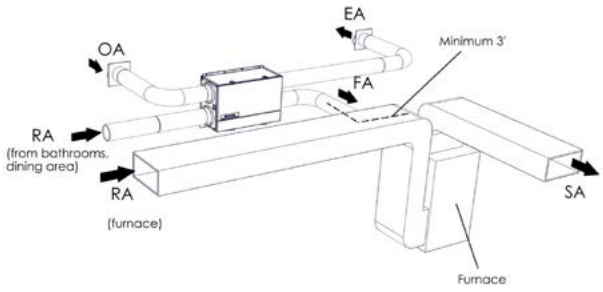


Return Drop Hung



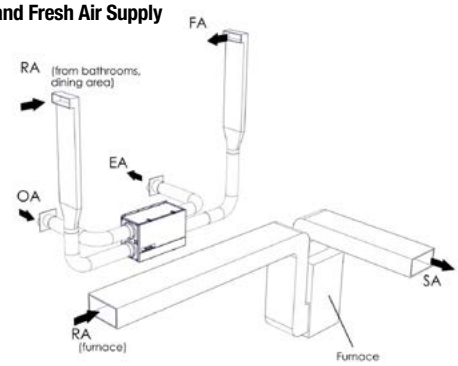
EV Series (EV130, EV200, EV240, and EV300)

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



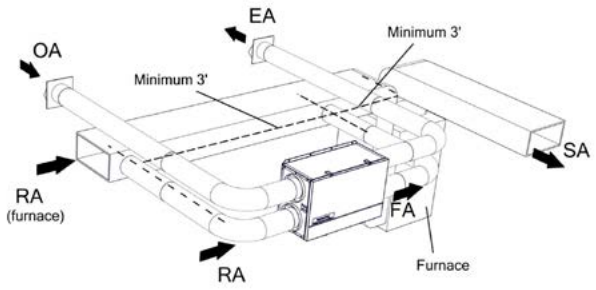
Note: ERV blower may be operated separate from furnace blower.

Separate Air and Fresh Air Supply



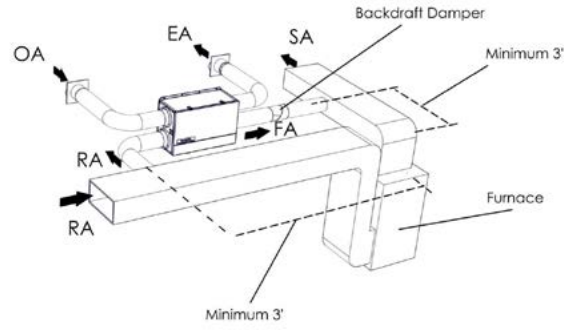
Note: ERV blower may be operated separate from furnace blower.

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.

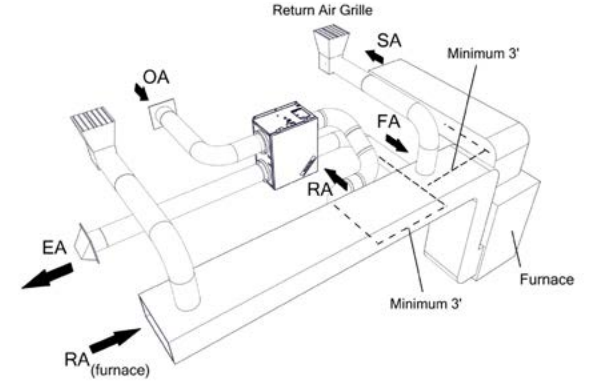
Furnace Return Air Back into Supply Air



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

EV Series (EV90 and EV90P)

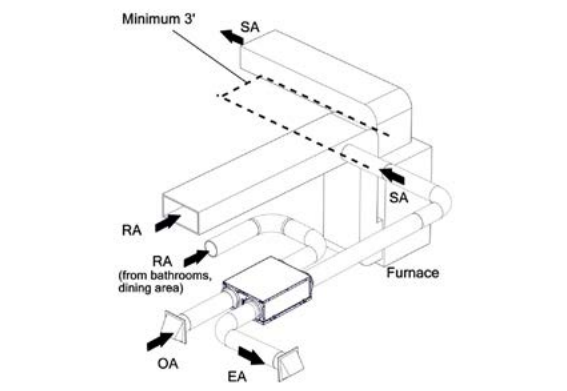
Furnace Return Air Back into Return Air



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

ACCESSORIES

See individual submittal pages for availability 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

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

- 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

- 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

- 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

ACCESSORIES

See individual submittal pages for availability by model.

Controls

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

- Up to 8 on/off cycles per day or 56 per week
- 24 VAC power requirement
- 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
- 24 VAC power requirement
- 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
- 24 VAC power required
- 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
- 24 VAC power requirement
- 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

ACCESSORIES

See individual submittal pages for availability by model.

Paint

EXTERIOR PAINT

- Custom colors available

Painted Cabinet

Filters

MERV 13 FILTERS

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

MERV 13 Filter

Mounting

WALL BRACKET KIT (SL ONLY)

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

Wall Bracket Kit

ACCESSORIES

See individual submittal pages for availability by model.

Louvered Wall Vents

6" VINYL (VB106 & VW106)

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

8" VINYL (VT8)

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

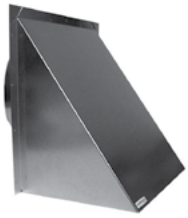
12"X 8"X 8" GALVANIZED (VW12X8)

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

Hooded Wall Vents

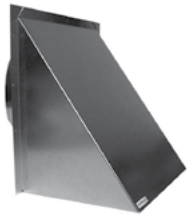
8" GALVANIZED (FA8-G)

- 1/4" metal screen



8" GALVANNEAL (FA8-P)

- Paintable
- 1/4" metal screen



Dampers

6" & 8" BACKDRAFT (BD6 & BD8)

- Mechanical "butterfly" design
- Male/female ends

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

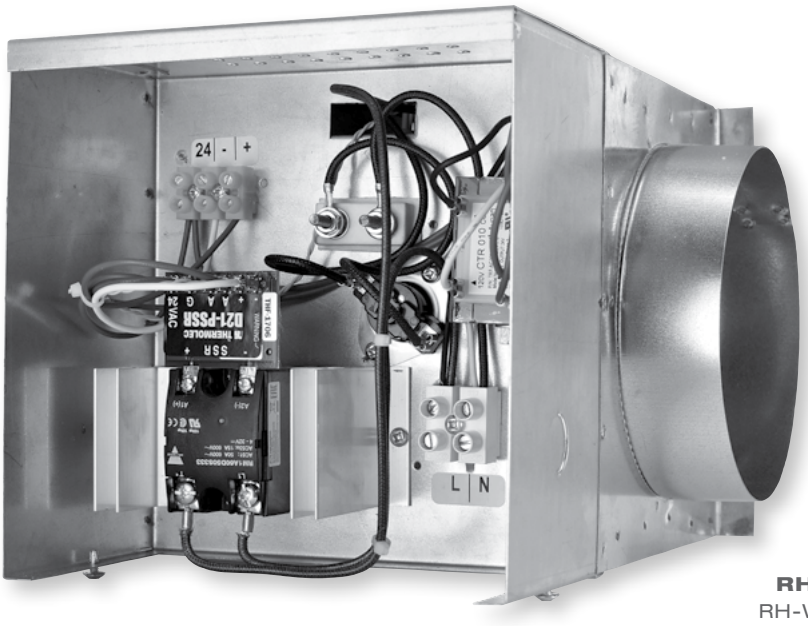
- Adaptability
- Steri-Balance™
- Sealed tight
- Bi-directional
- Total control
- UL classified

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.

Specifications may be subject to change without notice.

RenewAire Energy Recovery Ventilation

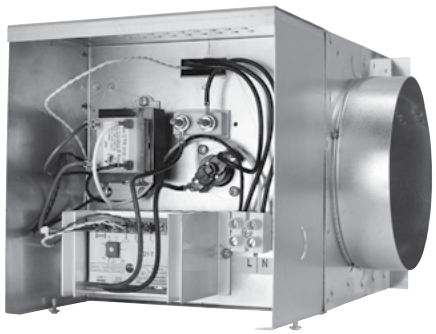
RH SERIES

Electric Duct Heater (1-11.5 kW)

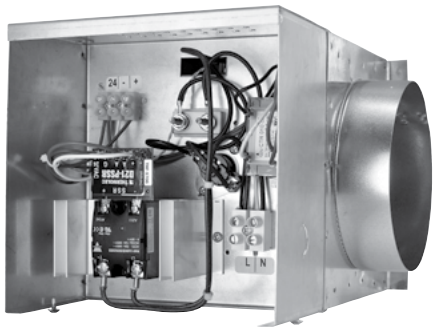
Accessory

C SP US
LR 30551

ELECTRIC DUCT HEATER



RH-D (Integral Thermostat)



RH-W (Wall-Mount Thermostat)

Download specification at:
renewaire.com/specifications

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

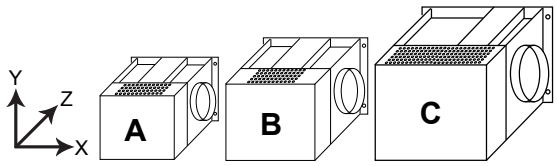
Control Voltage:
24 VAC

Controllable Output Temperature Range:
RH-D: 32 to 108˚ 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 - 24 VAC
Corrosion-resistant galvanized steel
Round duct collars
High-voltage terminal block connections
Grounding lug
Mounting flanges

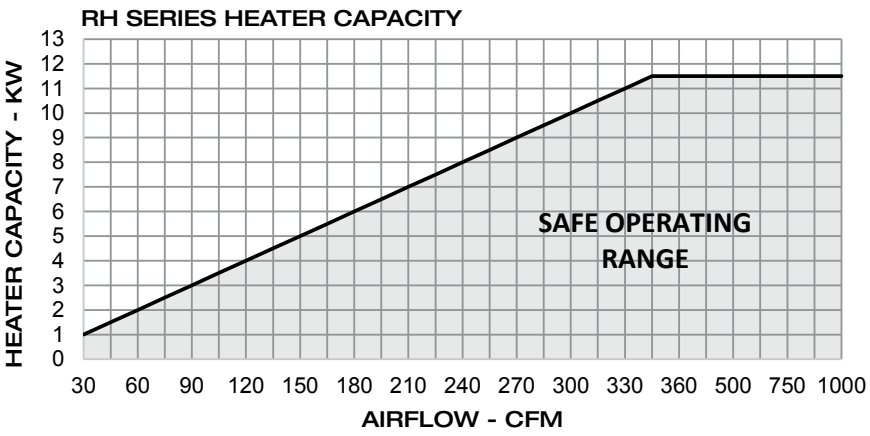
Accessories:
Temperature sensor - Duct mount (DS-600)
Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)

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



Duct Collars	kW	V	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	B	11 1/2"	10"	13 1/2"	15
10"	3, 4, 5, 6	240	B	11 1/2"	10"	13 1/2"	15
10"	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



Specifications may be subject to change without notice.

HVI TESTED/CERTIFIED

PER CSA C439

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	151	75	159
50	0.2	66	141	67	143	69	147
75	0.3	62	132	63	134	64	135
100	0.4	53	113	54	115	56	119
125	0.5	44	94	45	96	47	99
150	0.6	32	69	33	70	29	62
175	0.7	24	52	25	53	21	45

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	124	121	72	78	55
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	59	126	121	46		48

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	111	50	105
50	0.2	44	94	46	97	44	94
75	0.3	38	81	39	83	40	84
100	0.4	32	67	32	69	35	74
125	0.5	25	52	25	54	30	64
150	0.6	17	36	18	37	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

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	99	48	101	47	100
75	0.3	41	87	42	89	42	89
100	0.4	35	73	36	75	36	76
125	0.5	26	56	27	57	27	58
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	90	44	80	83	64
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	42	90	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	165	79	168	79	168
50	0.2	72	153	73	156	73	156
75	0.3	64	137	66	140	66	140
100	0.4	59	126	61	129	61	129
125	0.5	49	104	50	106	50	106
150	0.6	37	79	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	130	102	71	75	53
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	61	130	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	207	100	213	109	232
50	0.2	90	192	93	199	104	221
75	0.3	88	186	90	192	101	216
100	0.4	83	176	85	181	96	204
125	0.5	79	168	81	173	88	187
150	0.6	70	149	72	154	76	162
175	0.7	57	122	59	126	68	145

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	181	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	236	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	317	143	303
125	0.5	139	295	142	301	133	283
150	0.6	131	277	133	282	125	265
175	0.7	121	256	123	261	108	230
200	0.8	101	215	103	219	94	198
225	0.9	90	191	92	195	74	156
250	1.0	80	170	82	174	47	99

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	297	315	67	73	54
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	138	294	313	46		49

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	51	108	53	112	55	117
50	0.2	48	102	50	106	53	112
75	0.3	45	95	48	102	51	108
100	0.4	43	91	46	97	49	104
125	0.5	42	89	44	93	47	100
150	0.6	40	85	42	89	44	93
175	0.7	38	81	40	85	42	89
200	0.8	36	76	38	81	39	83
225	0.9	33	70	35	74	35	74
250	1.0	29	61	31	66	31	66

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	29	75	79	57
Cooling					Total Recovery Efficiency %		Adjusted Total Recovery Efficiency %
35°	95°	25	53	31	62		64

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	

RENEWAIRE ERVs

VENTILATION SOLUTIONS FOR EVERY APPLICATION

SL SERIES

- Residential ERVs—four-duct design
- Indoor
- 51-76 CFM continuous mode
- 76-94 CFM boost mode

BR SERIES

- Residential ERVs—two-duct design
- Indoor
- 40-140 CFM

EV SERIES

- Residential and light commercial ERVs—four-duct design
- Indoor/outdoor (varies by model)
- 40-540 CFM

HE SERIES

- Commercial ERVs—packaged solutions
- Indoor/outdoor
- 250-7,950 CFM

LE SERIES

- Commercial ERVs—large capacity
- Indoor/outdoor
- 1,500-11,000 CFM

FOR CERTIFICATION DETAILS SEE UNIT SUBMITTALS ON RENEWAIRE.COM

RENEWAIRE ERVs

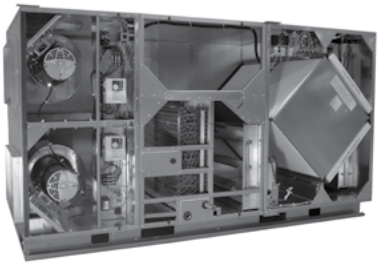
VENTILATION SOLUTIONS FOR EVERY APPLICATION

CA SERIES

- Applied ERVs—modular cabinets
- Indoor/outdoor
- 500-4,400 CFM
- Stackable to 20,000 CFM

PA SERIES

- Applied ERVs—modular panels
- Indoor
- 1500-unlimited CFM

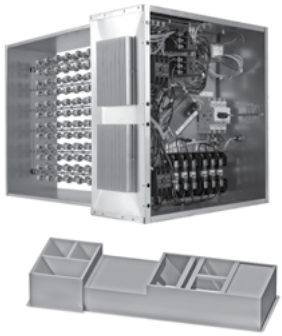


RD SERIES

- Commercial—Dedicated Outdoor Air System (DOAS)
- Indoor/outdoor
- 500-4,250 CFM

DN SERIES

- Commercial—Dedicated Outdoor Air System (DOAS)
- Indoor/outdoor
- 375-4,950 CFM



OPTIONS & ACCESSORIES

- ECM motors
- Variable frequency drives
- Motorized isolation dampers
- Combo curbs
- Bypass economizers
- Electric duct heaters
- Indirect gas-fired duct furnace
- Filter alarms

FOR CERTIFICATION DETAILS SEE UNIT SUBMITTALS ON RENEWAIRE.COM

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

PHONE:
1.800.627.4499

FAX:
608.221.2824

FOR TECHNICAL SUPPORT:
RenewaireSupport@renewaire.com

TO PLACE AN ORDER:
RenewaireOrders@renewaire.com

RenewAire® Energy Recovery Ventilation

RELEVANT EVERYWHERE

EVERY GEOGRAPHIC REGION
Our ERVs function perfectly across the world 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.

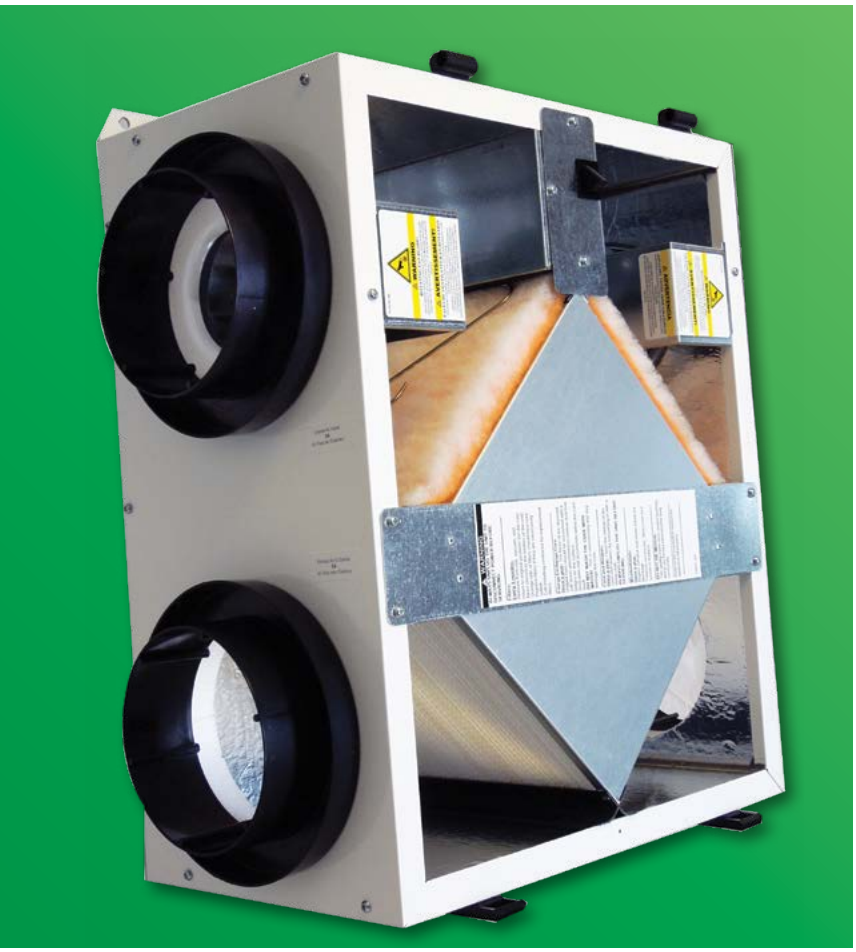
RETAIL
The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales.

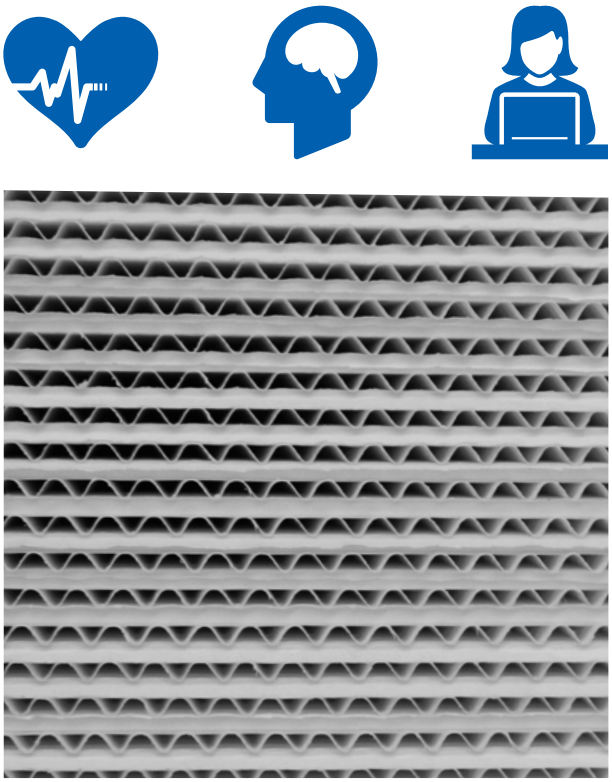
DAYCARE
Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable.

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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