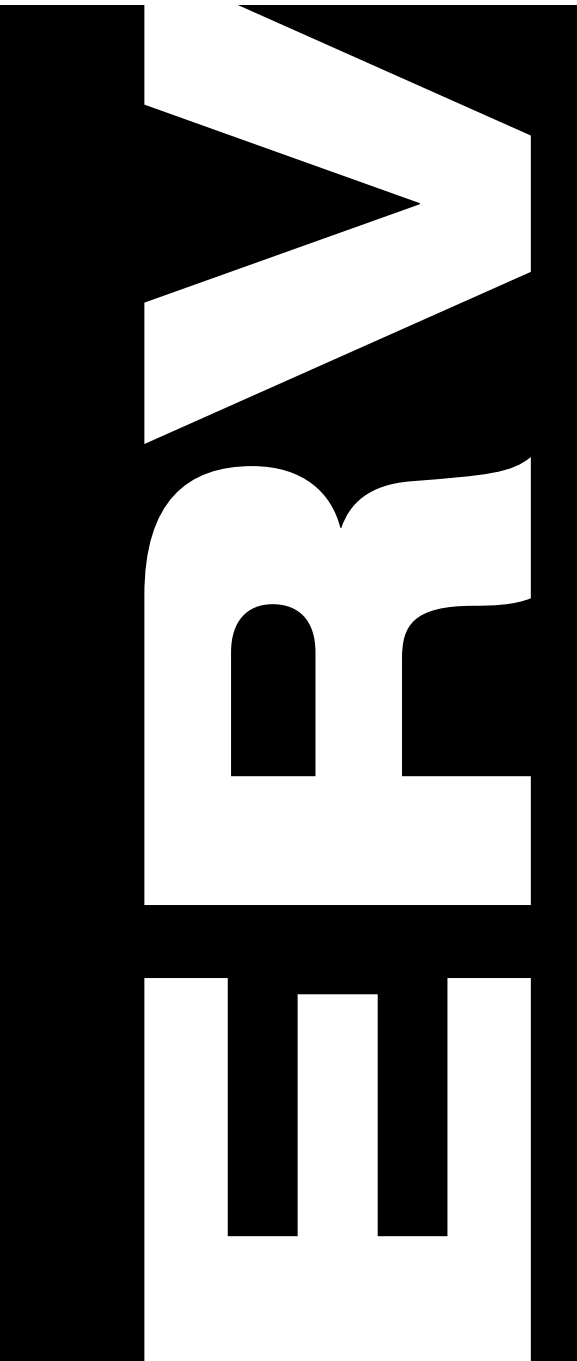




SL, BR, GR & EV SERIES
SINGLE/MULTI-FAMILY ERV CATALOG

JANUARY 2019

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 ERV technologies. 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 (CO₂)—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) that **optimize energy efficiency**, lower capital costs via **HVAC load reduction** and **decrease operational expenses** by minimizing equipment needs, resulting in significant energy savings. Our ERVs 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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ABOUT RENEWAIRE	2-3
SPECIFICATIONS & DIMENSIONS	4-17
OPTIONS & ACCESSORIES	18-23
CERTIFICATIONS & PERFORMANCE	24-25
ORDERING & SUPPORT	26-28

SL SERIES - Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
SL70H - STANDARD	Consumer-Grade, Four-Duct Connection	51-76 CFM*	4-5
SL70L - STANDARD	Consumer-Grade, Four-Duct Connection	51-76 CFM*	6-7

*Continuous mode range

BR SERIES - Unitary (Two Duct) ERV

MODEL	TYPE	CFM RANGE	PAGE
BR70 - STANDARD	Two-Duct Connection	40-70 CFM	8
BR130 - STANDARD	Two-Duct Connection	50-140 CFM	9

GR SERIES - Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
GR90 - STANDARD	Contractor-Grade, Four-Duct Connection	40-110 CFM	10

EV SERIES - Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
EV90 - STANDARD	Consumer-Grade, Four-Duct Connection	40-110 CFM	11
EV90P - STANDARD	Consumer-Grade, Four-Duct Connection	40-110 CFM	12
EV130 - STANDARD	Consumer-Grade, Four-Duct Connection	50-140 CFM	13
EV200 - STANDARD	Consumer-Grade, Four-Duct Connection	100-200 CFM	14
EV240 - STANDARD	Consumer-Grade, Four-Duct Connection	100-240 CFM	15
EV300 - STANDARD	Consumer-Grade, Four-Duct Connection	150-300 CFM	16



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 zero exhaust air transfer at normal balanced operating conditions. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

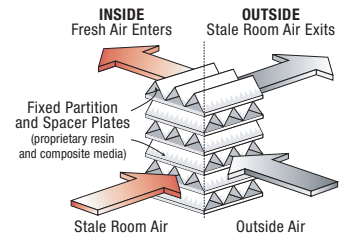
OPTIMIZING ENERGY EFFICIENCY

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 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

INDOOR UNIT

NEW



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Standard



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:

Unit may be mounted in any orientation
 Low-voltage circuit for controls
 Hard wiring in electrical box
 Dial-A-Flow - balance and airflow adjustment
 Variable speed
 Boost mode
 Cross-core differential pressure ports
 Gray painted cabinet

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"
 Wall cap 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.

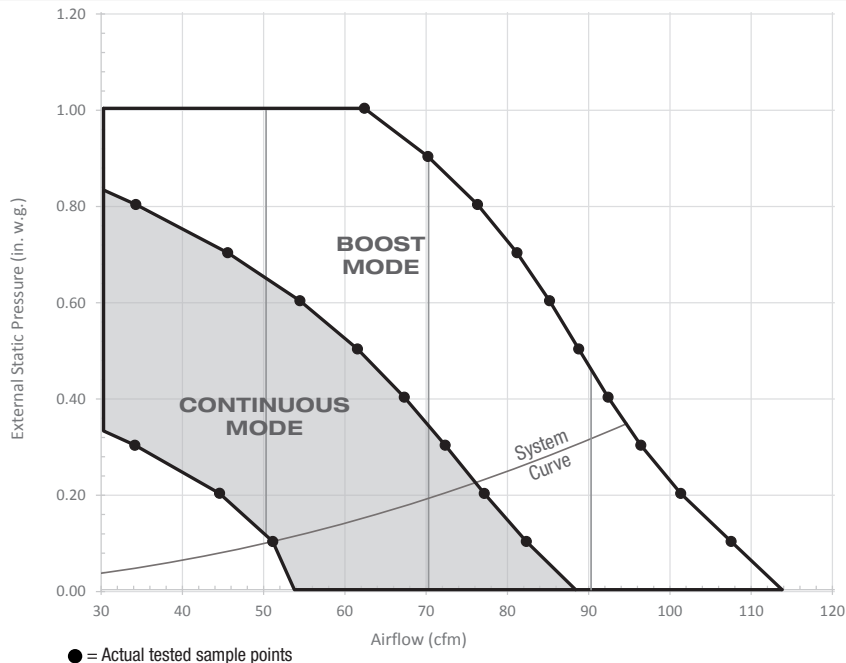
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

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

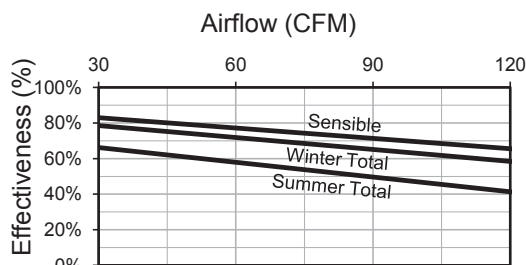
ELECTRICAL DATA

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.

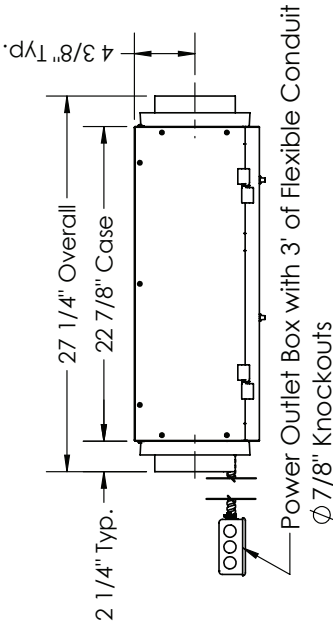


CORE PERFORMANCE

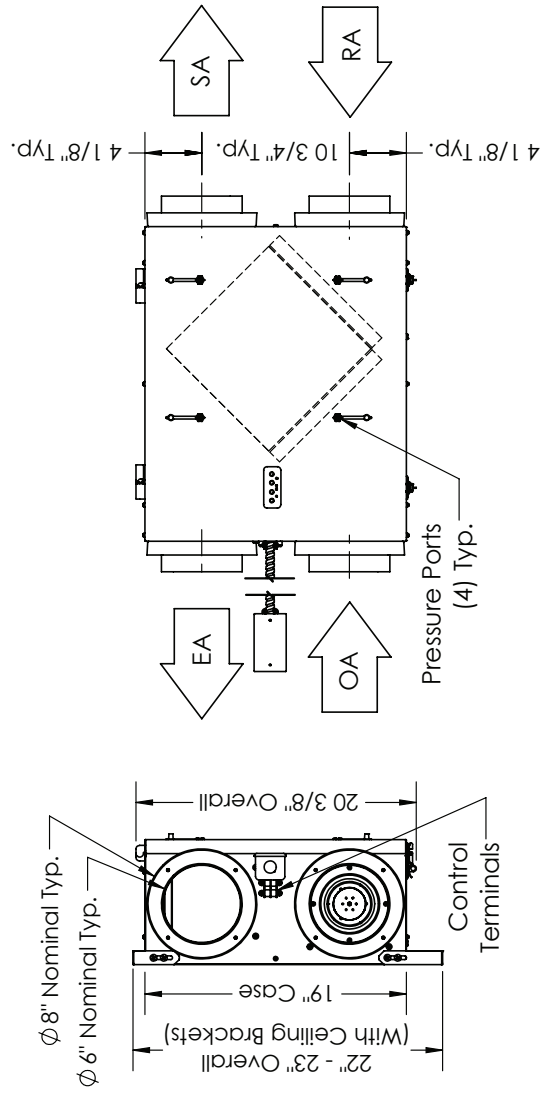


At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

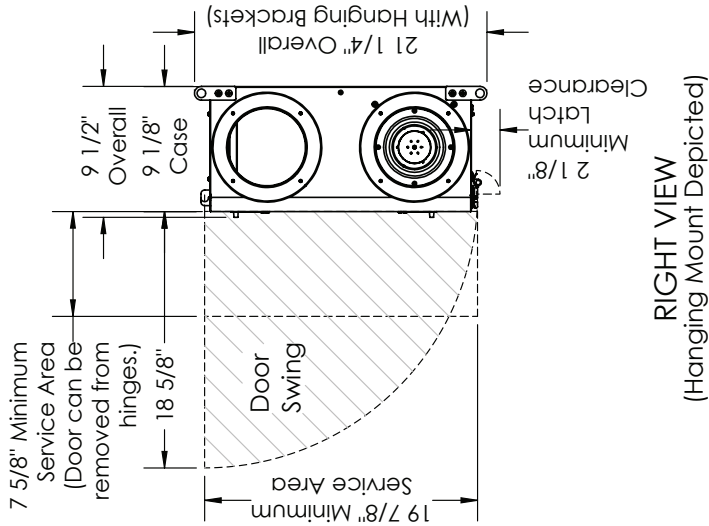
* See performance ratings per CSA C439 on page 25 of RenewAire's Single/Multi-Family Catalog.



TOP VIEW



FRONT VIEW



RIGHT VIEW
(Hanging Mount Depicted)

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.

AIRFLOW CONFIGURATION
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

INDOOR UNIT

NEW



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Standard



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:

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

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"
 Wall cap 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.

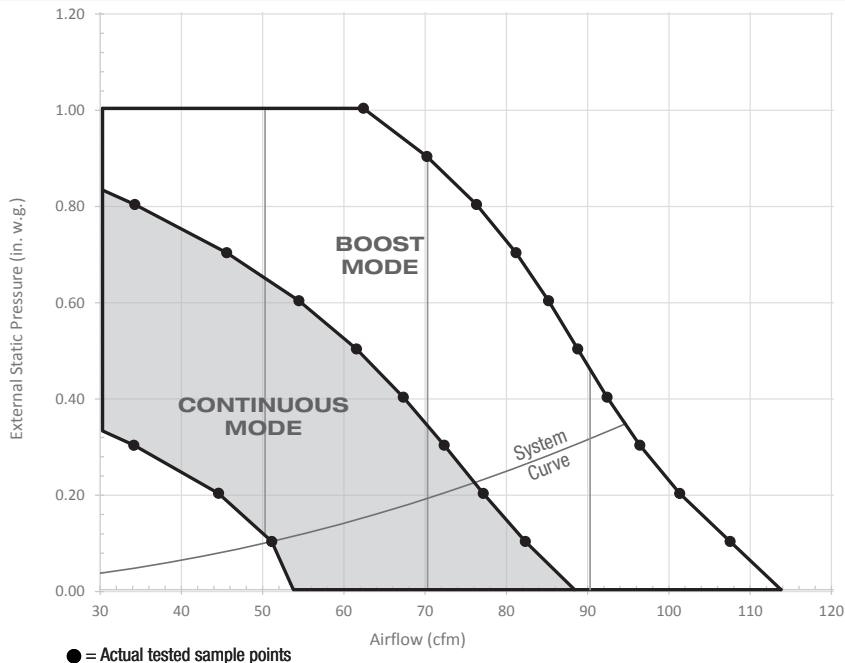
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

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

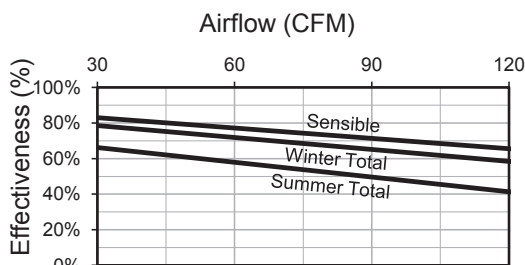
ELECTRICAL DATA

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.



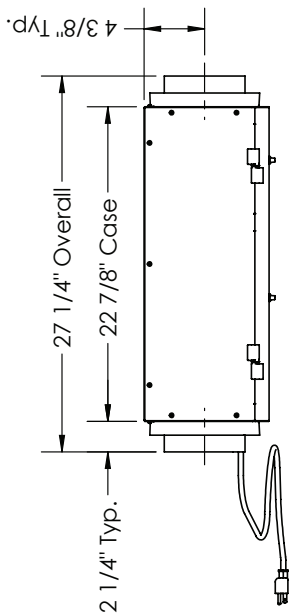
CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

* See performance ratings per CSA C439 on page 25 of RenewAire's Single/Multi-Family Catalog.

SL70L Energy Recovery Ventilator EC Motor Standard

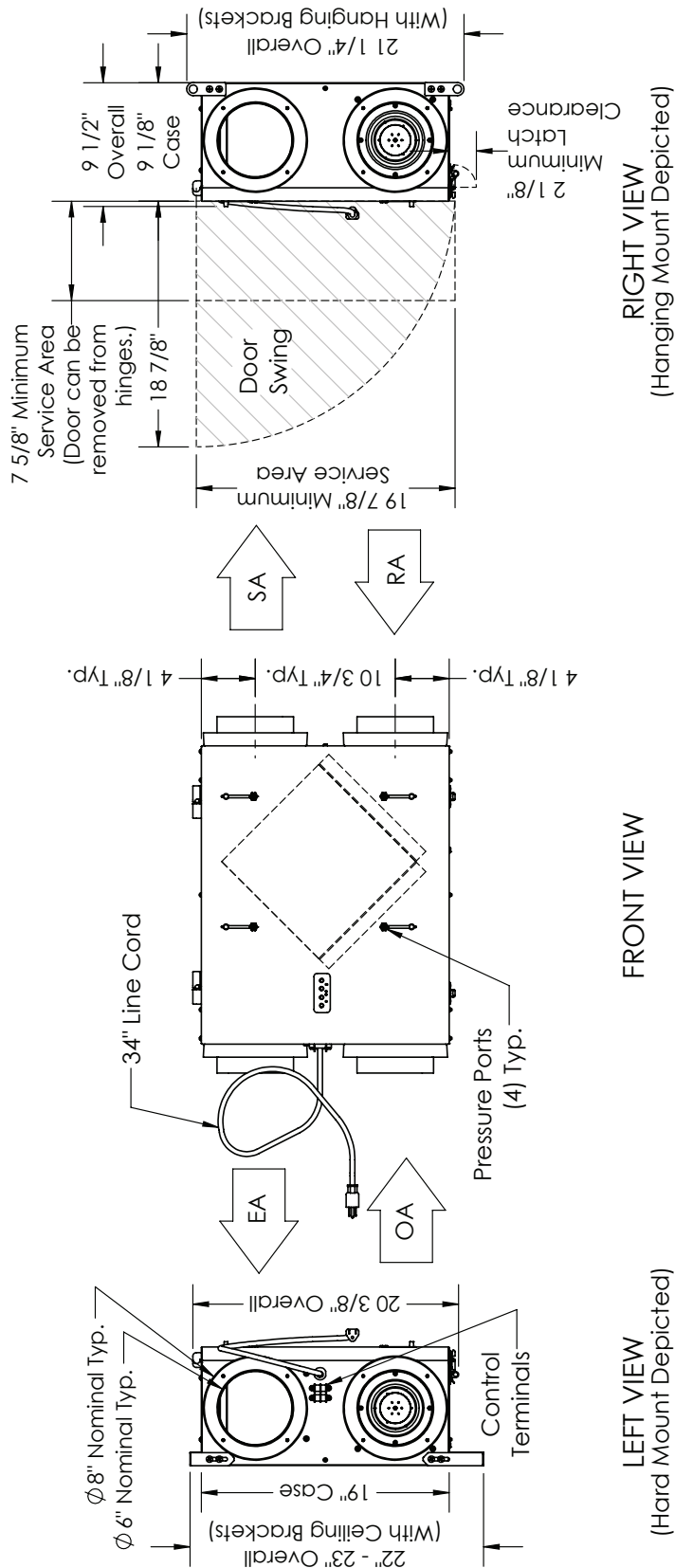


TOP VIEW

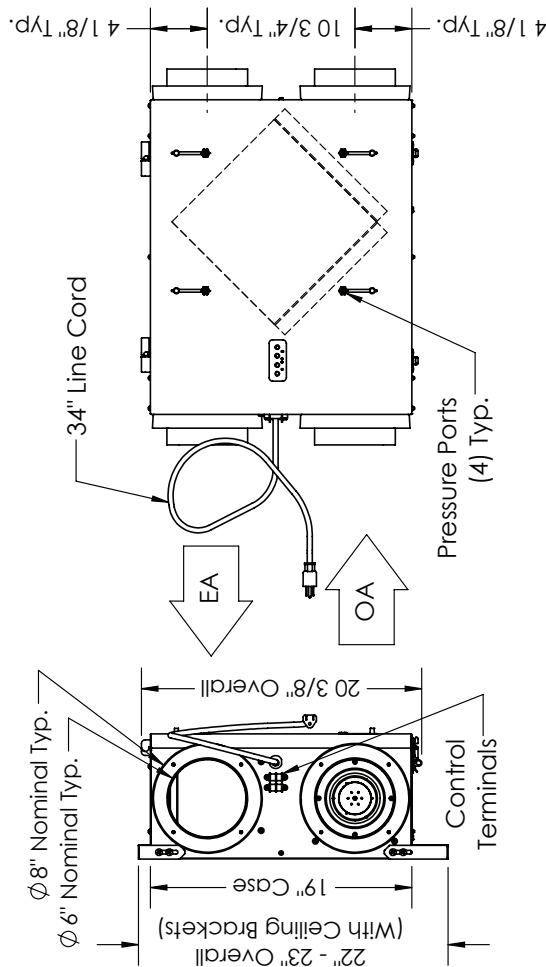
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

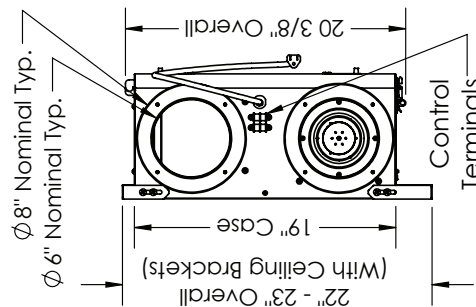
NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



RIGHT VIEW
(Hanging Mount Depicted)



FRONT VIEW



LEFT VIEW
(Hard Mount Depicted)

AIRFLOW CONFIGURATION
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

INDOOR UNIT

Duct Mounted or Thru-the-Wall

Energy Recovery Ventilator Standard



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"
Wall cap 6" - white, brown
Exterior thru-the-wall installation kit
Duct collar kit (two collars)
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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
46	0.40	80	75/62
59	0.30	77	72/58
73	0.20	75	69/54
86	0.10	72	66/51

* See performance ratings per CSA C439 on page 25 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS



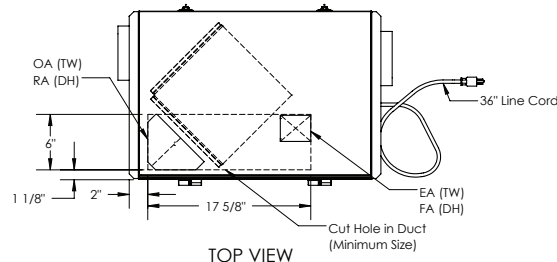
AIRFLOW CONFIGURATION

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

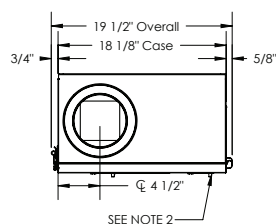
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

INSTALLATION ORIENTATION

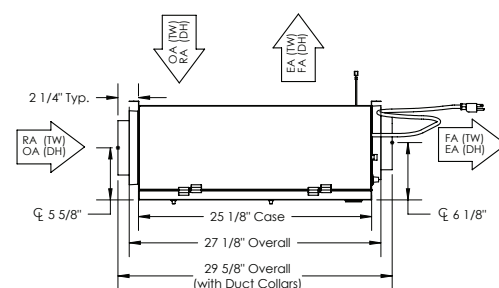
Unit may be installed in any orientation.

NOTE

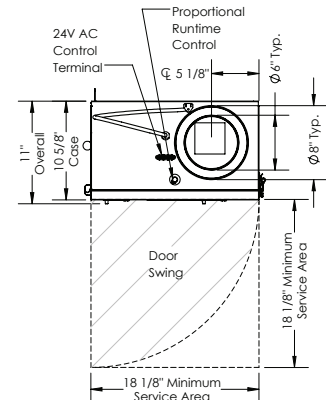
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW

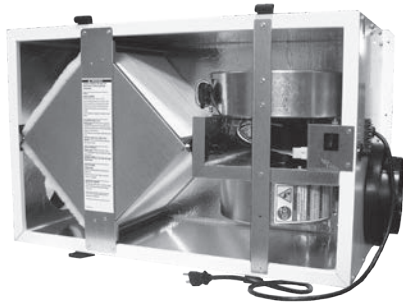


RIGHT VIEW

Specifications may be subject to change without notice.

BR 130

INDOOR UNIT
Duct Mounted or Thru-the-Wall



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator
Standard



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"

Wall cap 6" - white, brown

Exterior thru-the-wall installation kit

Duct collar kit (two collars)

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.

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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
52	0.70	82	78/65
69	0.60	80	75/62
94	0.50	76	71/57
113	0.40	74	68/53
132	0.30	71	65/49
141	0.20	70	63/47
148	0.10	69	62/46

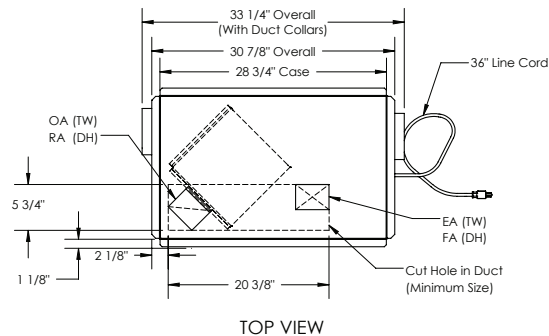
CORE PERFORMANCE

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS

AIRFLOW CONFIGURATION
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.



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

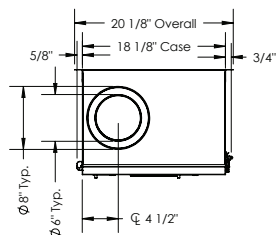
Unit may be installed in any orientation.

NOTE

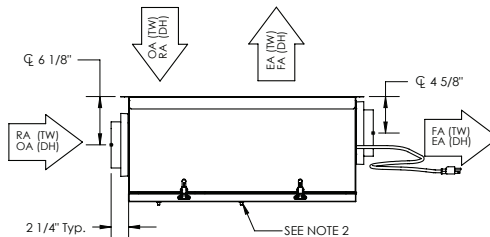
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

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

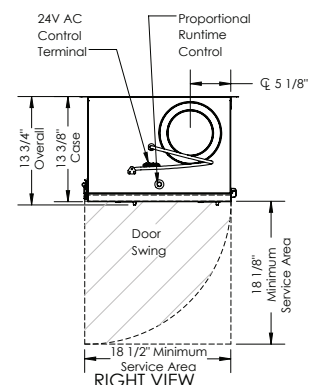
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW

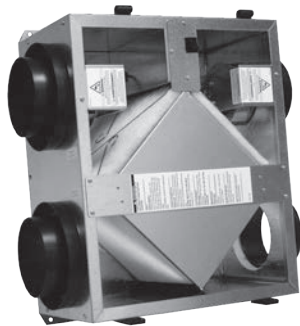


RIGHT VIEW

Specifications may be subject to change without notice.

GR 90

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



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"
 Wall cap 6" - white, brown
 120V line voltage Honeywell control
 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 ₂ O
40	0.60
58	0.50
73	0.40
85	0.30
98	0.20
113	0.10

CORE PERFORMANCE

Temp EFF%	Total EFF% Winter/Summer*
84	74/56
80	69/50
77	65/46
74	62/43
71	59/39
68	56/34

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS



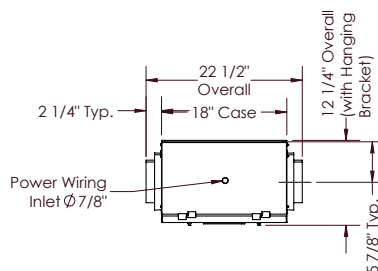
AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

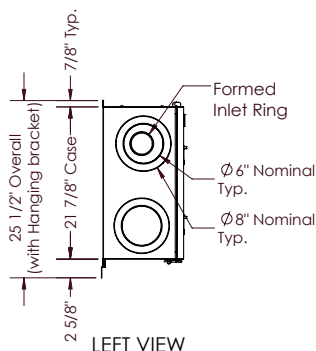


UNIT MOUNTING & APPLICATION

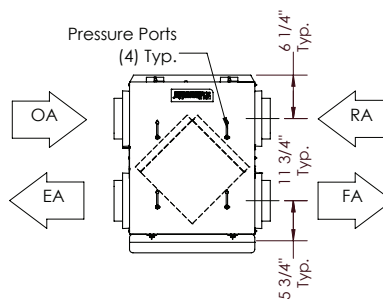
Can be mounted in any orientation. RA/EA airstream
 can be switched with OA/FA airstream.



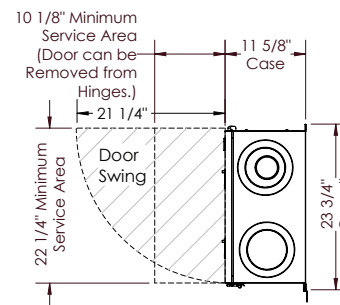
TOP VIEW



LEFT VIEW



FRONT VIEW



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

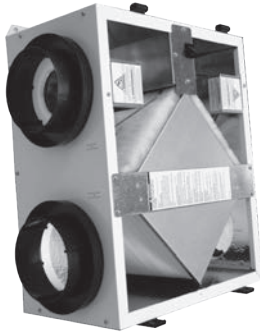
Unit may be installed in any orientation.

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.



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



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"
 Wall cap 6" - white, brown
 Percentage timer control (PTL)
 Push-button point-of-use controls (PBL), PTL req'd.
 Percentage timer control with furnace interlock (FM)
 Electric duct heater - RH series (1-11.5 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

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

UNIT PERFORMANCE

Airflow CFM	ESP in H ₂ O	Temp EFF%	Total EFF% Winter/Summer*
40	0.60	84	74/56
58	0.50	80	69/50
73	0.40	77	65/46
85	0.30	74	62/43
98	0.20	71	59/39
113	0.10	68	56/34

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

CORE PERFORMANCE

UNIT DIMENSIONS



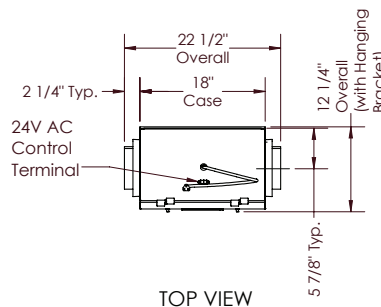
AIRFLOW CONFIGURATION

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

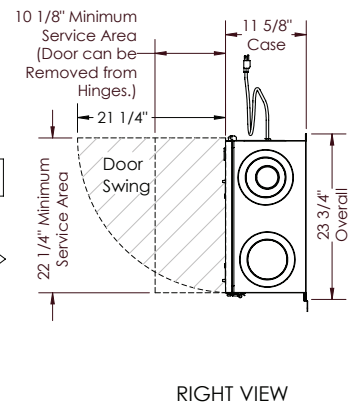
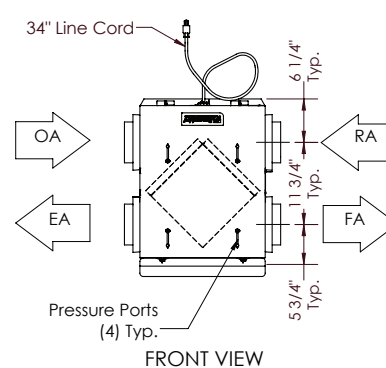
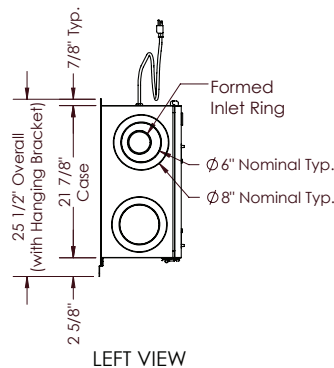
INSTALLATION ORIENTATION

Unit may be installed in any orientation.

NOTE

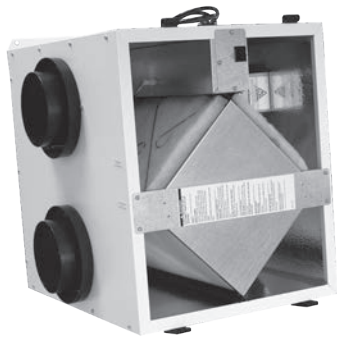
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



EV 90P

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



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"
 Wall cap 6" - white, brown
 Percentage timer control (PTL)
 Push-button point-of-use controls (PBL), PTL req'd.
 Percentage timer control with furnace interlock (FM)
 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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
42	0.60	86	83/71
56	0.50	85	82/70
73	0.40	84	80/68
87	0.30	83	79/67
99	0.20	82	78/66
108	0.10	82	78/65

CORE PERFORMANCE

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS



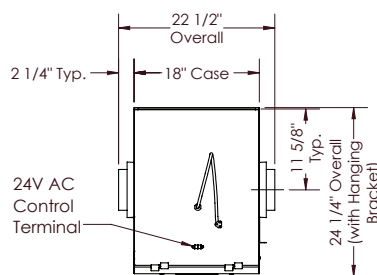
AIRFLOW CONFIGURATION

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

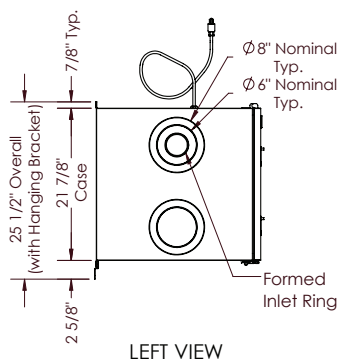
INSTALLATION ORIENTATION

Unit may be installed in any orientation.

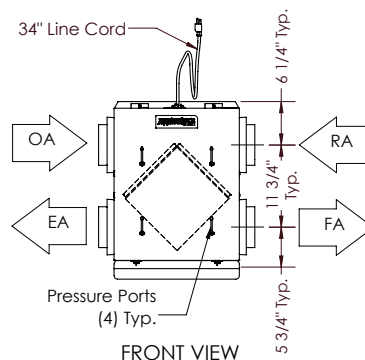
NOTE

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

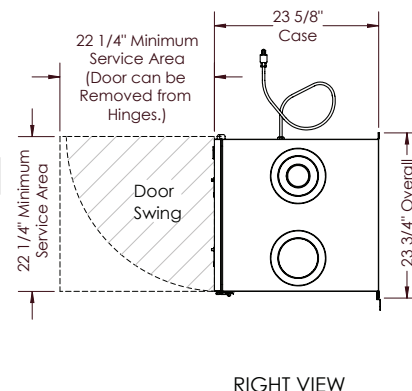
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Specifications may be subject to change without notice.

EV 130

INDOOR UNIT

Energy Recovery Ventilator Standard



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"
Wall cap 6" - white, brown
Percentage timer control (PTL)
Push-button point-of-use controls (PBL), PTL req'd.
Percentage timer control with furnace interlock (FM)
Electric duct heater - RH series (1-11.5 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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
79	0.60	78	73/60
104	0.50	75	69/55
126	0.40	72	66/50
137	0.30	71	64/48
153	0.20	68	61/45
165	0.10	67	59/43

CORE PERFORMANCE

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS



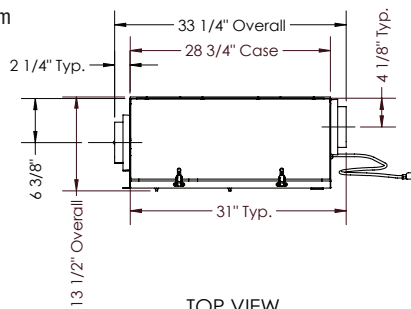
AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

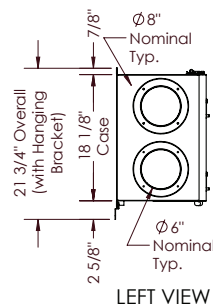


UNIT MOUNTING & APPLICATION

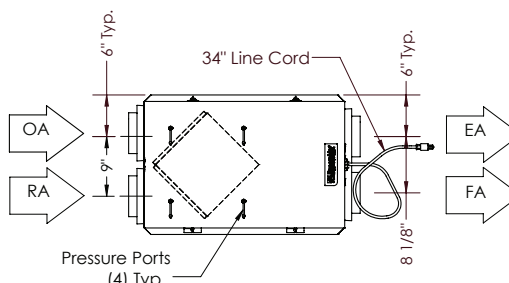
Can be mounted in any orientation. RA/EA airstream
can be switched with OA/FA airstream.



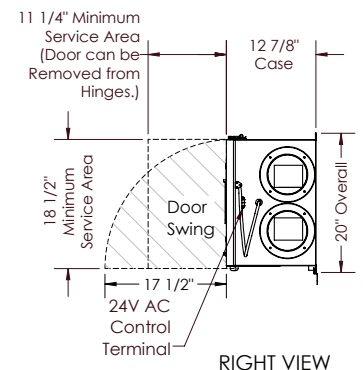
TOP VIEW



LEFT VIEW



FRONT VIEW



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 200

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



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"
 Wall cap 6" - white, brown
 Wall cap 8" - taupe vinyl, galvanized,
 paintable galvanneal
 Louver with 8" round duct connection -
 12" (W) x 8" (H)
 Percentage timer control (PTL)
 Push-button point-of-use controls (PBL), PTL req'd.
 Percentage timer control with furnace interlock (FM)
 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 ₂ O
122	0.70
149	0.60
168	0.50
176	0.40
186	0.30
192	0.20
207	0.10

CORE PERFORMANCE

Temp EFF%	Total EFF% Winter/Summer*
81	77/64
79	75/61
78	73/59
78	72/59
77	72/58
77	71/57
76	70/56

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

UNIT DIMENSIONS



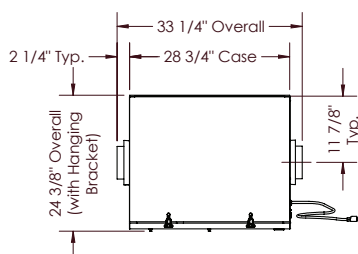
AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

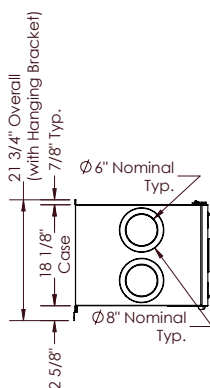


UNIT MOUNTING & APPLICATION

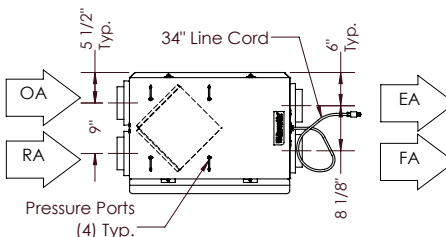
Can be mounted in any orientation. RA/EA airstream
 can be switched with OA/FA airstream.



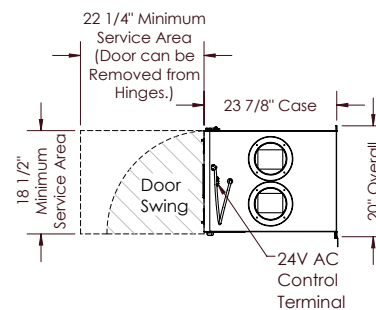
TOP VIEW



LEFT VIEW



FRONT VIEW



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

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2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

Specifications may be subject to change without notice.

EV 240

INDOOR UNIT

Energy Recovery Ventilator
Standard



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"
Wall cap 6" - white, brown
Wall cap 8" - taupe vinyl, galvanized,
paintable galvanneal
Louver with 8" round duct connection -
12" (W) x 8" (H)
Percentage timer control (PTL)
Push-button point-of-use controls (PBL), PTL req'd.
Percentage timer control with furnace interlock (FM)
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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
170	0.80	78	72/59
195	0.70	76	70/56
214	0.60	75	69/54
229	0.50	74	67/53
242	0.40	73	67/53
250	0.30	73	66/52
256	0.20	73	65/51
265	0.10	72	64/50

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

CORE PERFORMANCE

UNIT DIMENSIONS



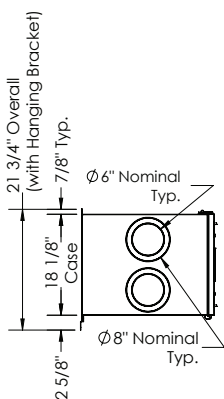
AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

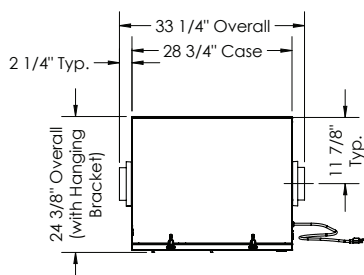


UNIT MOUNTING & APPLICATION

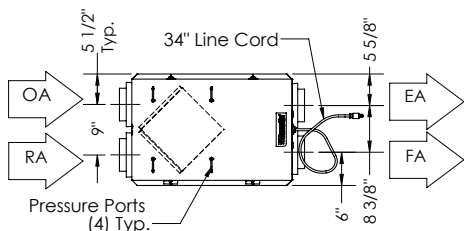
Can be mounted in any orientation. RA/EA airstream
can be switched with OA/FA airstream.



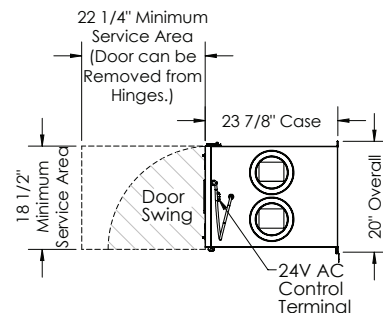
LEFT VIEW



TOP 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

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



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 8"

Wall cap 8" - taupe vinyl, galvanized,
 paintable galvanneal

Louver with 8" round duct connection -
 12" (W) x 8" (H)

Percentage timer control (PTL)

Push-button point-of-use controls (PBL), PTL req'd.

Percentage timer control with furnace interlock (FM)

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 ₂ O	Temp EFF%	Total EFF% Winter/Summer*
170	1.0	78	73/59
191	0.9	77	71/57
215	0.8	75	69/55
256	0.7	73	66/51
277	0.6	71	65/49
295	0.5	70	63/47
311	0.4	69	62/46

* See HVI certification ratings on page 24 of RenewAire's Single/Multi-Family Catalog.

CORE PERFORMANCE

UNIT DIMENSIONS



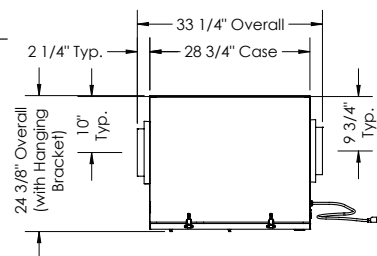
AIRFLOW CONFIGURATION

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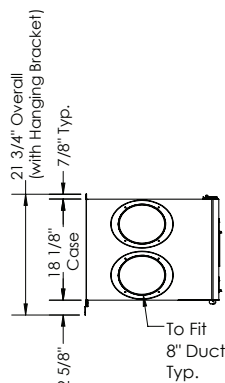


UNIT MOUNTING & APPLICATION

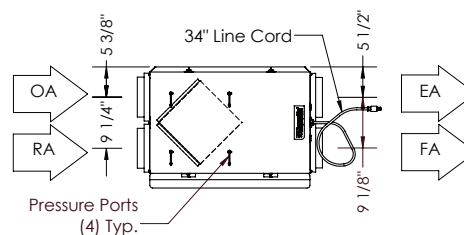
Can be mounted in any orientation. RA/EA airstream
 can be switched with OA/FA airstream.



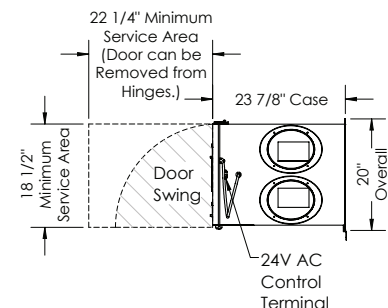
TOP VIEW



LEFT VIEW



FRONT VIEW



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.

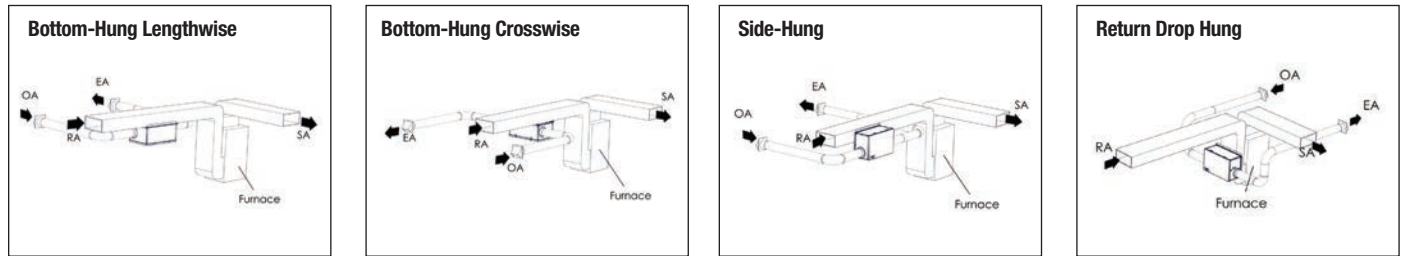
NOTE
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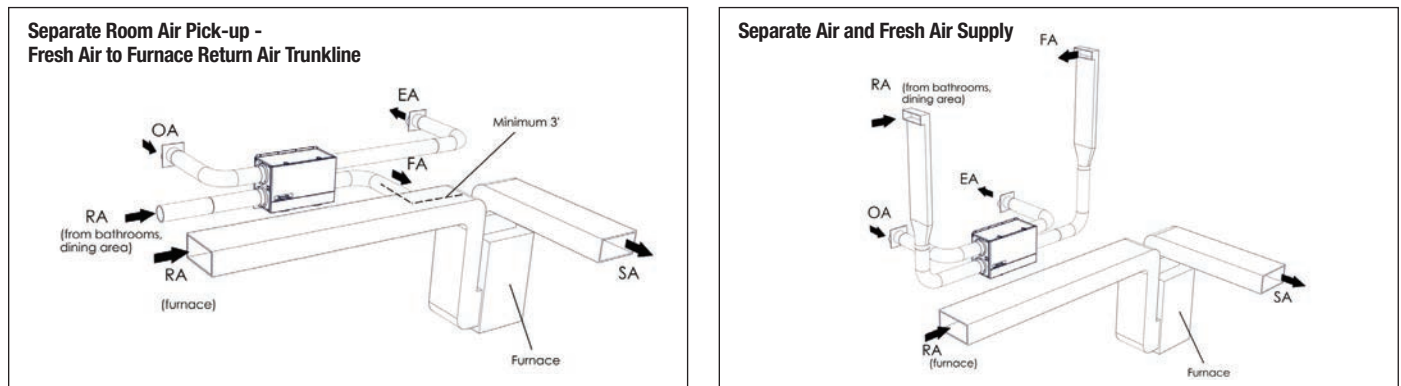
Specifications may be subject to change without notice.

APPLICATIONS

BR-series Common Installation Approaches (BR70 and BR130)

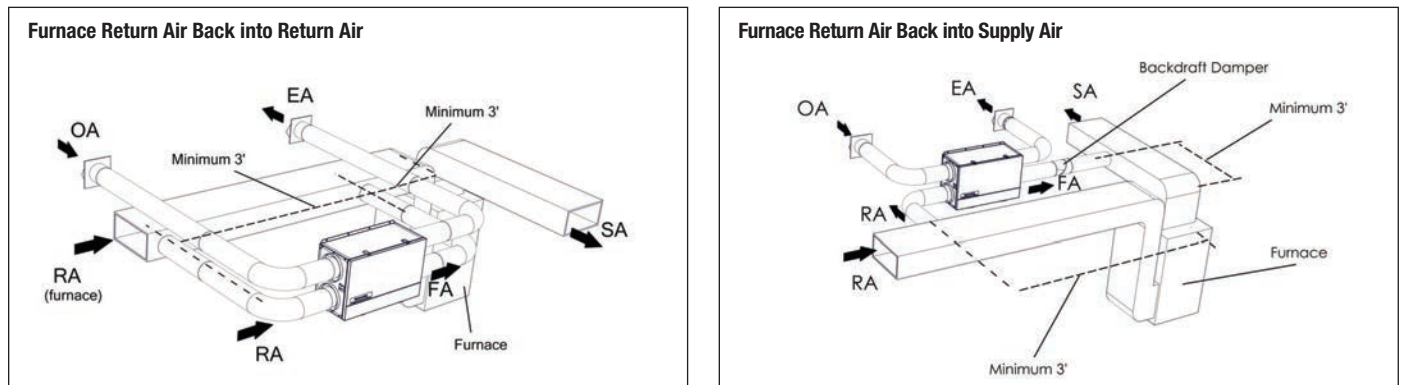


EV-series Common Installation Approaches (EV130, EV200, EV240, and EV300)



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

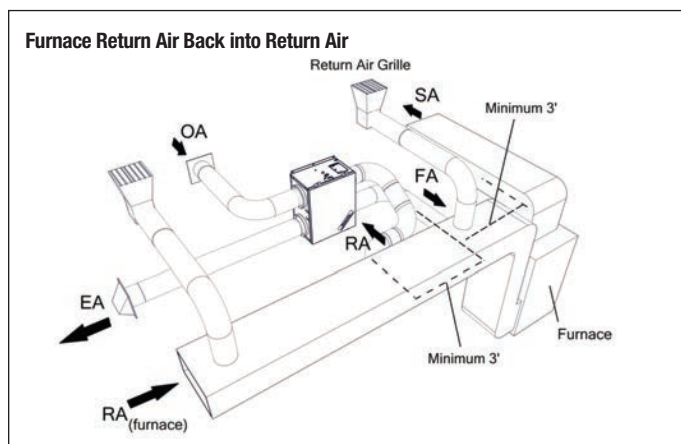
Note: ERV blower may be operated separate from furnace blower.



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.

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

EV-series Common Installation Approaches (EV90 and EV90P)



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.

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

ACCESSORIES

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

See individual submittal pages for availability by model.

PERCENTAGE TIMER

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

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

Secondary control used in combination with PTL control for SL70

- ♦ 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.

DIGITAL TIME CLOCK

- 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

- 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



C02-W
Wall Mount



C02-D
Duct Mount

IAQ SENSORS

- 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

- 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

Specifications may be subject to change without notice.

ACCESSORIES

See individual submittal pages for availability by model.

Filters

MERV13 FILTERS (SL ONLY)

- ♦ Pleated filter with beverage board fitted frame for OA airstream



MERV13 Filter

Mounting

WALL BRACKET KIT (SL ONLY)

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

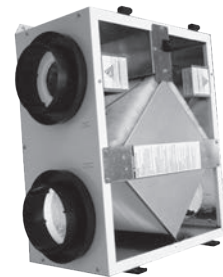


Wall Bracket Kit

Paint

EXTERIOR PAINT

- ♦ Custom colors available



Painted Cabinet



Specifications may be subject to change without notice.

ACCESSORIES

See individual submittal pages for availability by model.

Hoods and Dampers

VB106 & VW106

- ♦ 6" vinyl wall caps
- ♦ Brown (VB) or white (VW)
- ♦ Low pressure drop design
- ♦ Cleanable metal screen



VT8

- ♦ 8" vinyl weatherhood
- ♦ Taupe
- ♦ 1-1/2" channel for siding
- ♦ 4 removeable flaps
- ♦ 1/4" plastic screen



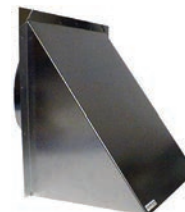
FA8-G

- ♦ 8" wall cap
- ♦ Galvanized finish
- ♦ Hood type wall cap
- ♦ 1/4" metal screen



FA8-P

- ♦ 8" wall cap
- ♦ Galvanneal finish
- ♦ Paintable
- ♦ 1/4" metal screen



VW12X8

- ♦ 12" x 8" x 8" round louver
- ♦ Galvanized finish
- ♦ Flush mount
- ♦ 1/2" metal screen



BD6 & BD8

- ♦ 6" & 8" backdraft damper
- ♦ Mechanical "butterfly" design
- ♦ Male/female ends



Specifications may be subject to change without notice.

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.

RH SERIES

ELECTRIC DUCT HEATER

NEW

Electric Duct Heater (1-11.5 kW)

Accessory

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

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



RH-D (Integral Thermostat)

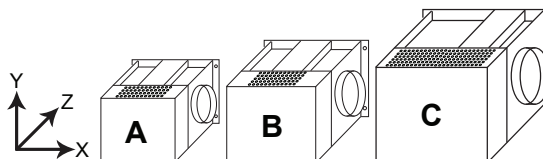


RH-W (Wall Mount Thermostat)

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

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

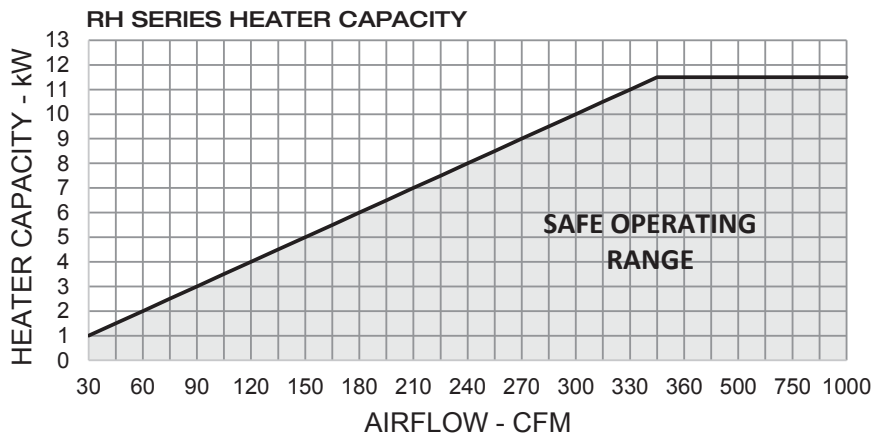
Download specification at:
renewaire.com/specifications



DIMENSIONS IN INCHES

SIZE	X	Y	Z
A	11.5	8.0	11.5
B	11.5	10.0	13.5
C	15.5	12.0	15.5

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

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	53	113	54	115	52	109
50	0.2	46	98	47	100	46	97
75	0.3	40	85	41	87	40	85
100	0.4	34	73	35	74	34	72
125	0.5	27	58	28	59	28	60
150	0.6	19	40	19	41	22	47

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

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

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

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

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

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

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	Adjusted Total	
35°	95°	59	126	121	Recovery Efficiency %	Recovery Efficiency %	
					46	48	

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	90	46	72	77	37
Cooling					Total Recovery Efficiency %	Adjusted Total Recovery Efficiency %	
35°	95°	42	90	44	46	48	

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 - 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 - 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 - 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 - 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 - 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



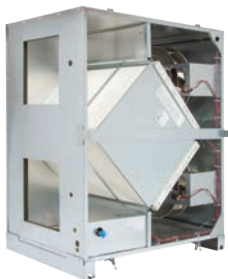
BR SERIES

- ◆ 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 —



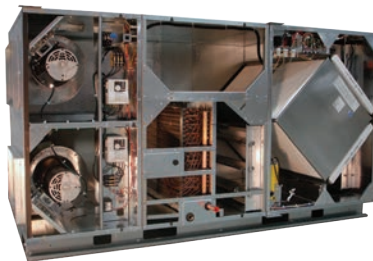
CA SERIES

- ♦ 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
- ♦ Bypass economizers
- ♦ Variable frequency drives
- ♦ Electric duct heaters
- ♦ Motorized isolation dampers
- ♦ Filter alarms
- ♦ Combo curbs



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

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.

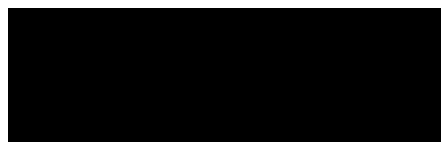
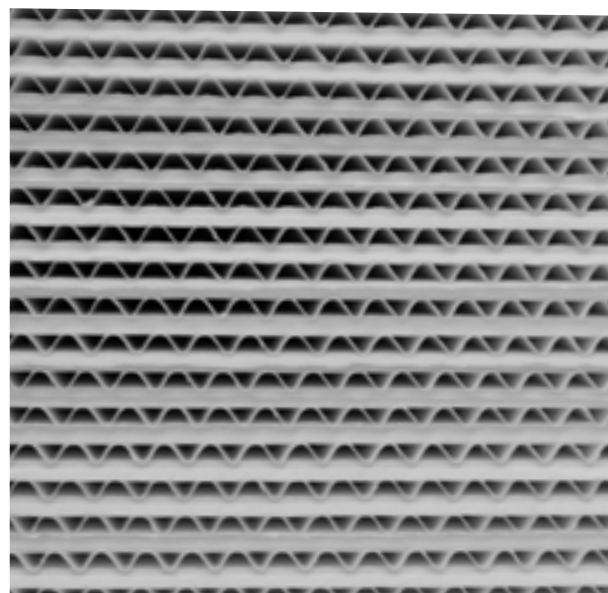
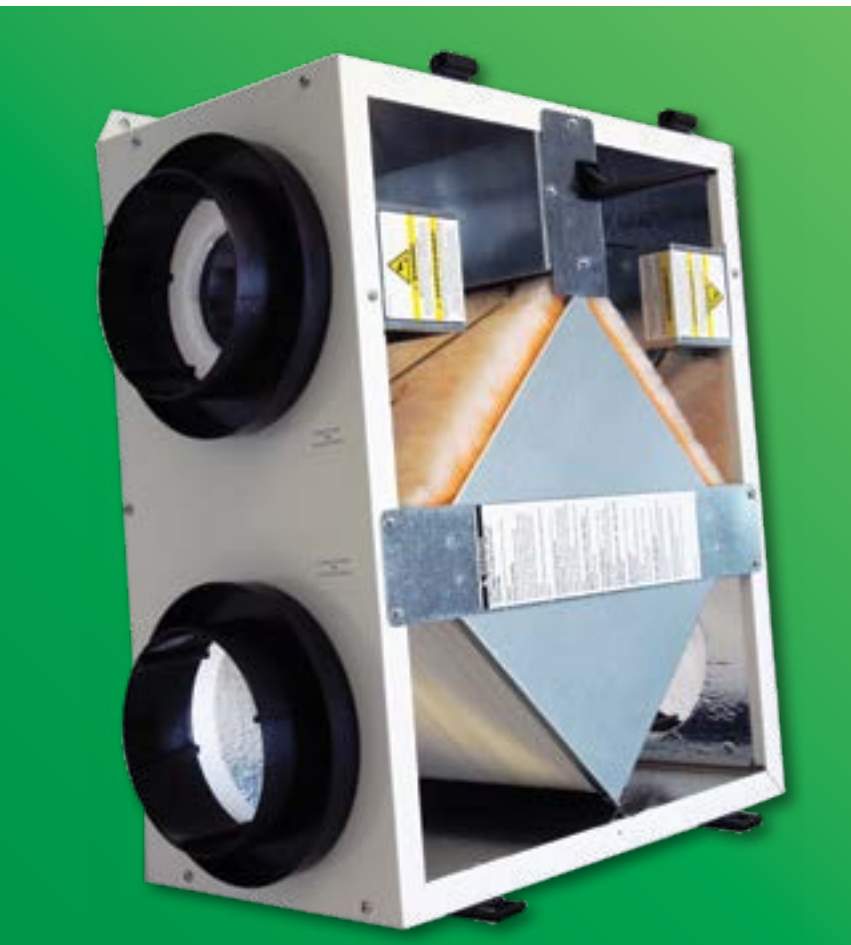
GOVERNMENT

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.





CA & PA SERIES

APPLIED CATALOG

JANUARY 2019

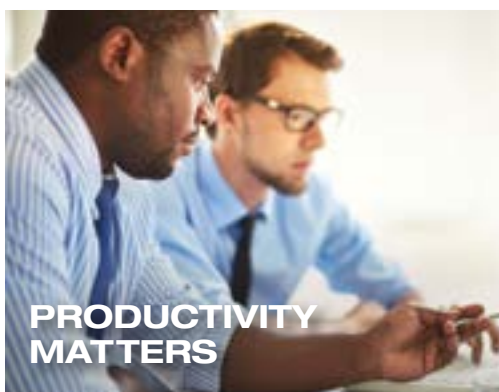
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BECAUSE INDOOR AIR QUALITY MATTERS

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 ERV technologies. 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 (CO₂)—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) that **optimize energy efficiency**, lower capital costs via **HVAC load reduction** and **decrease operational expenses** by minimizing equipment needs, resulting in significant energy savings. Our ERVs 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

CA SERIES - Applied

MODEL	TYPE	CFM RANGE	PAGE
CA2XIN	Indoor	500-2,200 CFM	4-5
CA3XIN	Indoor	750-3,300 CFM	4, 6
CA4XIN	Indoor	1,000-4,400 CFM	4, 7
CA2XRT	Rooftop	500-2,200 CFM	8-9
CA3XRT	Rooftop	750-3,300 CFM	8, 10
CA4XRT	Rooftop	1,000-4,400 CFM	8, 11

PA SERIES - Applied

MODEL	TYPE	CFM RANGE	PAGE
PA6X	Indoor	1,500-6,600 CFM	12-13
PA8X	Indoor	2,000-8,800 CFM	12, 14
PA9X	Indoor	2,250-9,900 CFM	12, 15
PA12X	Indoor	3,000-13,200 CFM	12, 16

ABOUT RENEWAIRE	2-3
SPECIFICATIONS & DIMENSIONS	4-16
CERTIFICATIONS & PERFORMANCE	18
ORDERING & SUPPORT	19-20

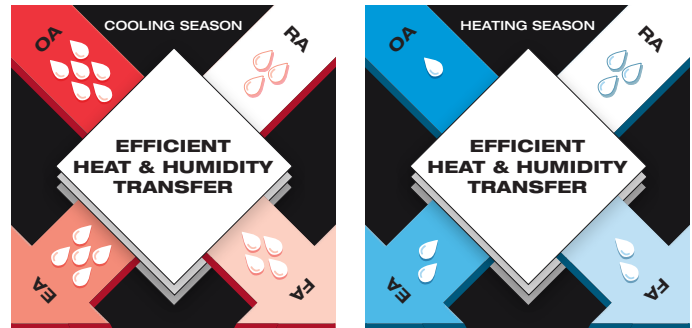


RENEWAIRE ERVs ACHIEVE SUSTAINABLE IAQ

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 zero exhaust air transfer at normal balanced operating conditions. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

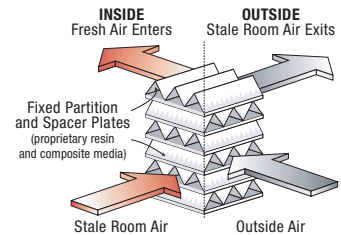
OPTIMIZING ENERGY EFFICIENCY

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 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

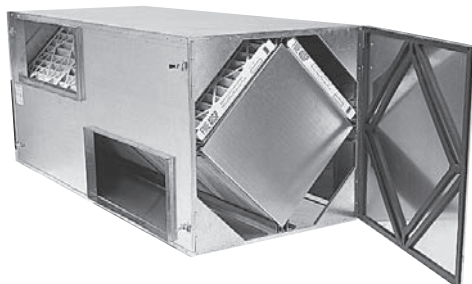
- See individual catalog submittal for certification details:
 - UL • cUL • ETL • HVI • AHRI





INDOOR UNIT

Modular Cabinets



Download specification at:
renewaire.com/specifications

Energy Recovery Module



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Standard Features:

Insulated sheet metal cabinets with energy exchange cores and filters.

Individual CA-Series units or stacks of units can be built into larger air handling systems. Blower not included and must be specified to meet job requirements.

Insulation:

One inch, high density, FSK faced, fiberglass

Options:

Double wall construction

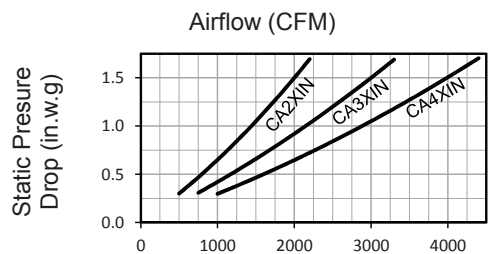
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

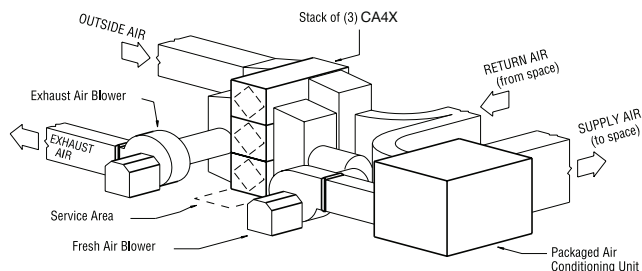
Description	CA2XIN	CA3XIN	CA4XIN
Typical Airflow Range CFM	500-2,200	750-3,300	1,000-4,400
AHRI 1060 Certified Core	Two L125-G5	Three L125-G5	Four L125-G5
Unit Dimensions & Weight	36" L x 42 1/2" W x 35" H 225-304 lbs.	36" L x 62 1/4" W x 35" H 325-430 lbs.	36" L x 81 3/4" W x 35" H 400-531 lbs.
Max. Shipping Dimensions & Weight (on pallet)	62" L x 42" W x 40" H 350 lbs.	70" L x 47" W x 40" H 500 lbs.	96" L x 47" W x 40" H 620 lbs.
Filters: MERV 8: 20" x 20" x 2"	Total qty. 4	Total qty. 6	Total qty. 8

AIRFLOW PERFORMANCE

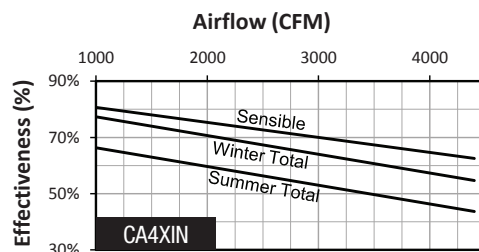
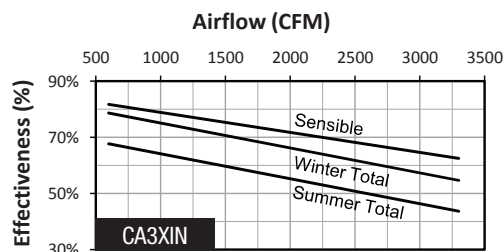
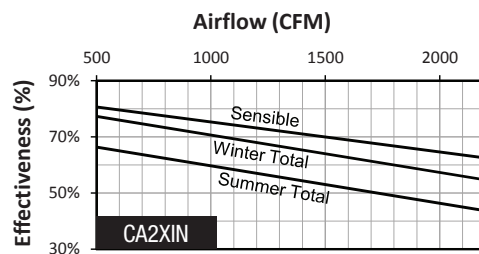


Note: Airflow performance includes effect of clean, standard filter supplied with unit.

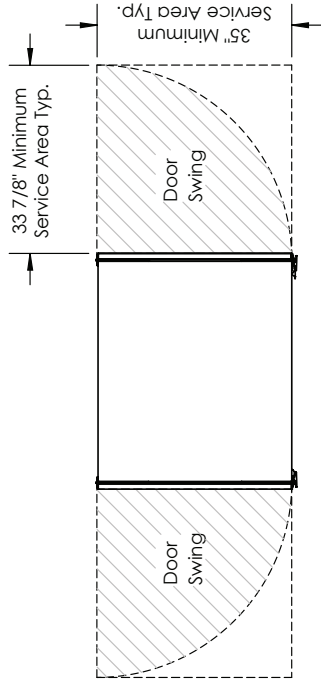
APPLICATION



CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.



ABBREVIATION

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

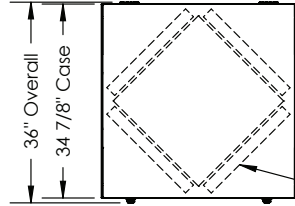
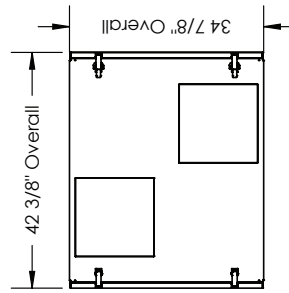
INSTALLATION ORIENTATION

Unit may be installed in any orientation.

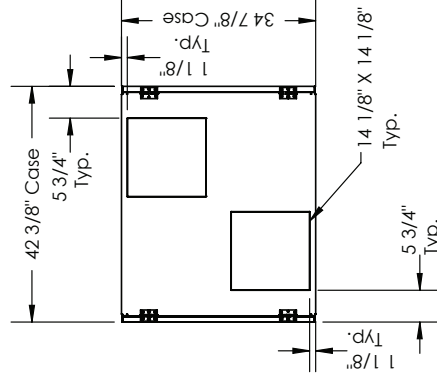
NOTE:

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



RIGHT VIEW

AIRFLOW CONFIGURATION
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. Can be stacked three high.

ABBREVIATION

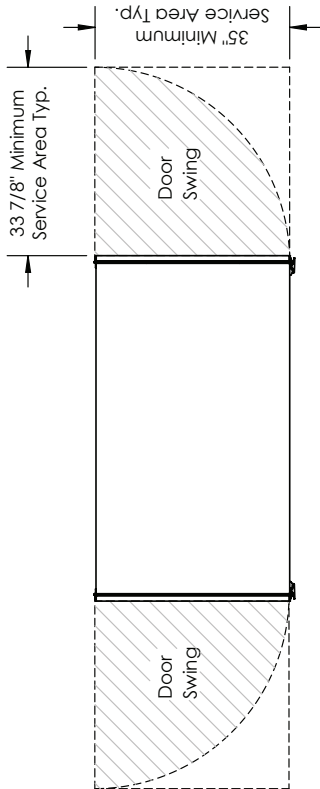
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

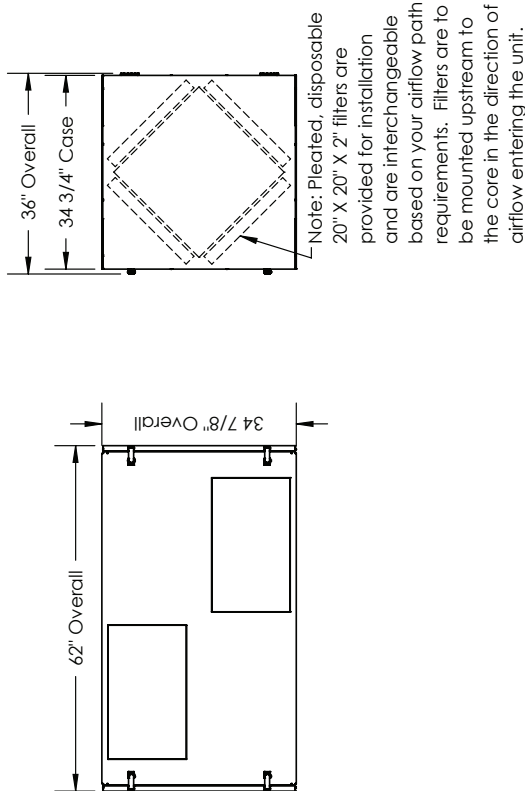
Unit may be installed in any orientation.

NOTE:

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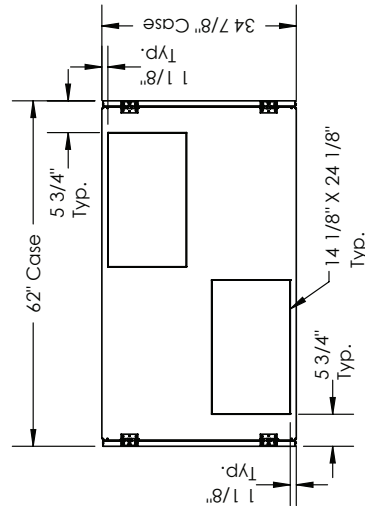


TOP VIEW



LEFT VIEW

FRONT VIEW



RIGHT VIEW



AIRFLOW CONFIGURATION
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. Can be stacked three high.

CA4XIN Energy Recovery Module

ABBREVIATION

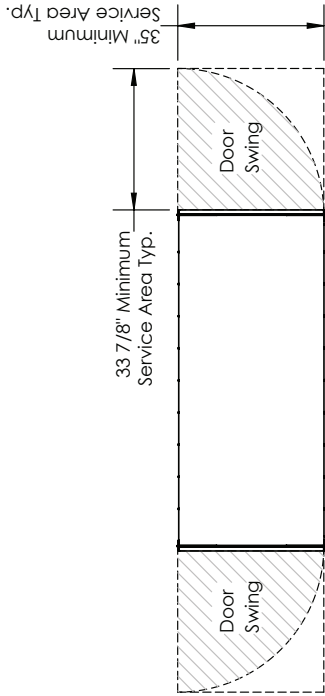
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

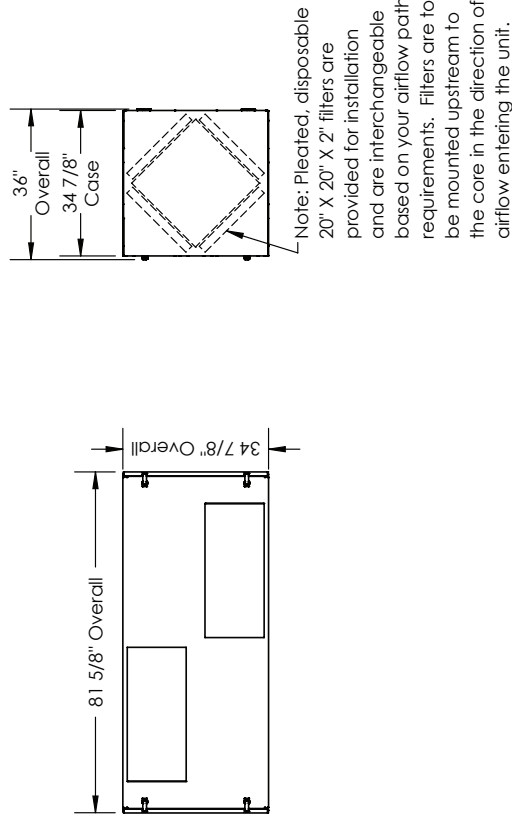
Unit may be installed in any orientation.

NOTE:

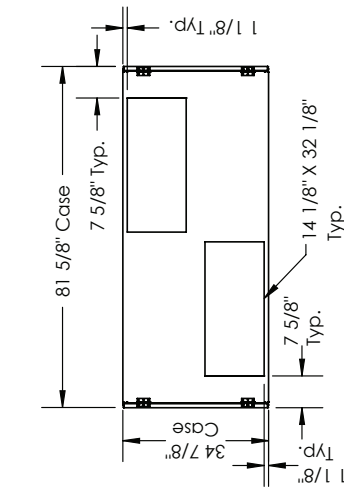
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



TOP VIEW



LEFT VIEW



RIGHT VIEW



AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

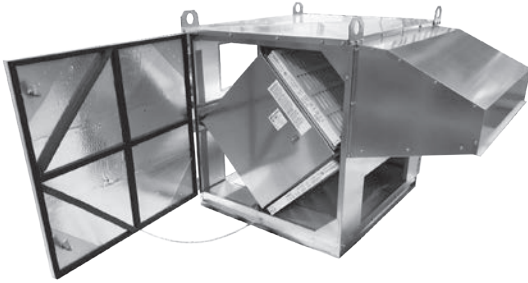


UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream. Can be stacked three high.

CA OUTDOOR Energy Recovery Module



ROOFTOP UNITS Modular Cabinets



Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Standard Features:

Insulated sheet metal cabinets with energy exchange cores and filters.
Blower not included and must be specified to meet job requirements.

Insulation:

One inch, high density, FSK faced, fiberglass

Options:

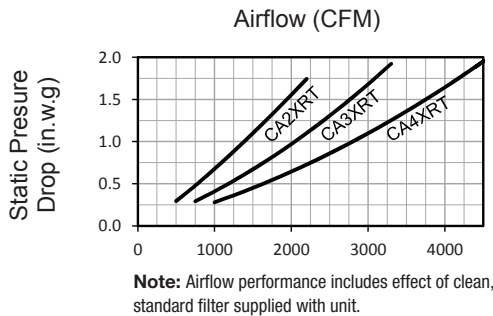
Double wall construction
Exterior paint - white, custom colors

Accessories:

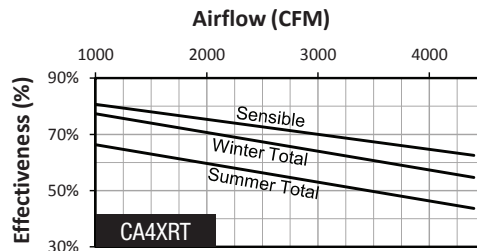
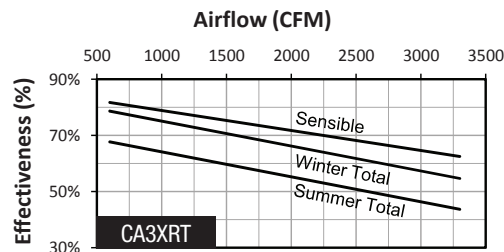
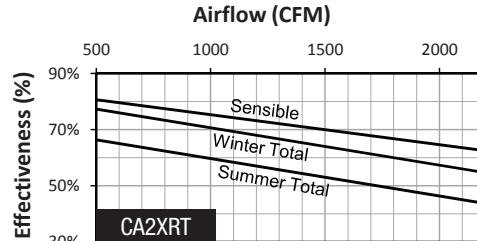
Roof curb - standard 14"
Filters - MERV 13, 2" (shipped loose)

Description	CA2XRT	CA3XRT	CA4XRT
Typical Airflow Range CFM	500-2,200	750-3,300	1,000-4,400
AHRI 1060 Certified Core	Two L125-G5	Three L125-G5	Four L125-G5
Unit Dimensions & Weight	55 1/2" L x 43 1/4" W x 42 1/4" H 250-329 lbs.	55 1/2" L x 63 1/2" W x 42 1/2" H 377-482 lbs.	55 1/2" L x 83 1/4" W x 42 1/4" H 462-593 lbs.
Max. Shipping Dimensions & Weight (on pallet)	63" L x 47" W x 48" H 400 lbs.	60" L x 90" W x 48" H 590 lbs.	60" L x 90" W x 48" H 700 lbs.
Filters: MERV 8: 20" x 20" x 2"	Total qty. 4	Total qty. 6	Total qty. 8

AIRFLOW PERFORMANCE



CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

ABBREVIATIONS

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

INSTALLATION ORIENTATION

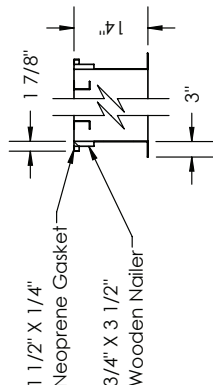
Unit must be installed in orientation shown.

NOTE

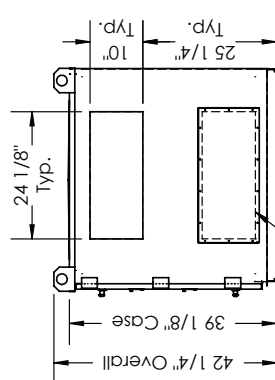
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

CURB CROSS-SECTION A-A (TYP.)



SECTION A-A



Lower side pan inlets/outlets are patched with removable insulated pans.

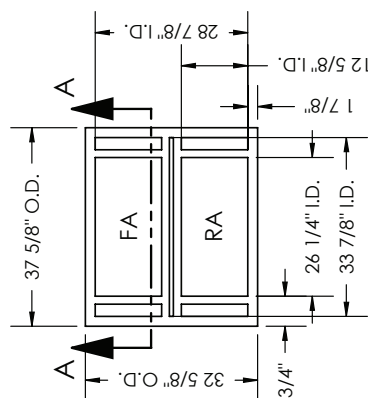
RIGHT VIEW



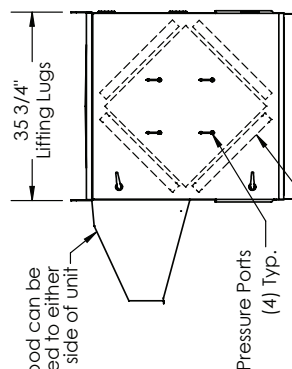
UNIT MOUNTING & APPLICATION

Must be mounted as shown. Duct configuration is field convertible. Weather hood can be moved in the field. RA/EA airstream can be switched with OA/FA airstream.

CURB CA2XRT

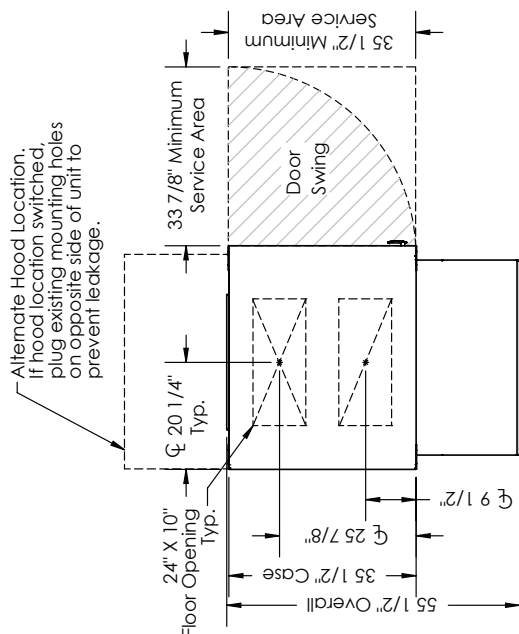


TOP VIEW

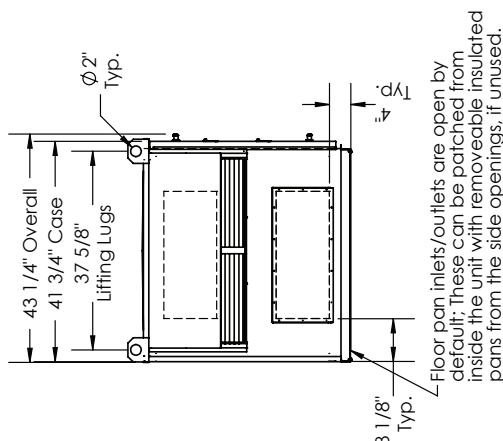


Note: Pleated, disposable 20" X 20" X 2" filters are provided for installation and are interchangeable based on your airflow path requirements. Filters are to be mounted upstream to the core in the direction of airflow entering the unit.

FRONT VIEW



TOP VIEW

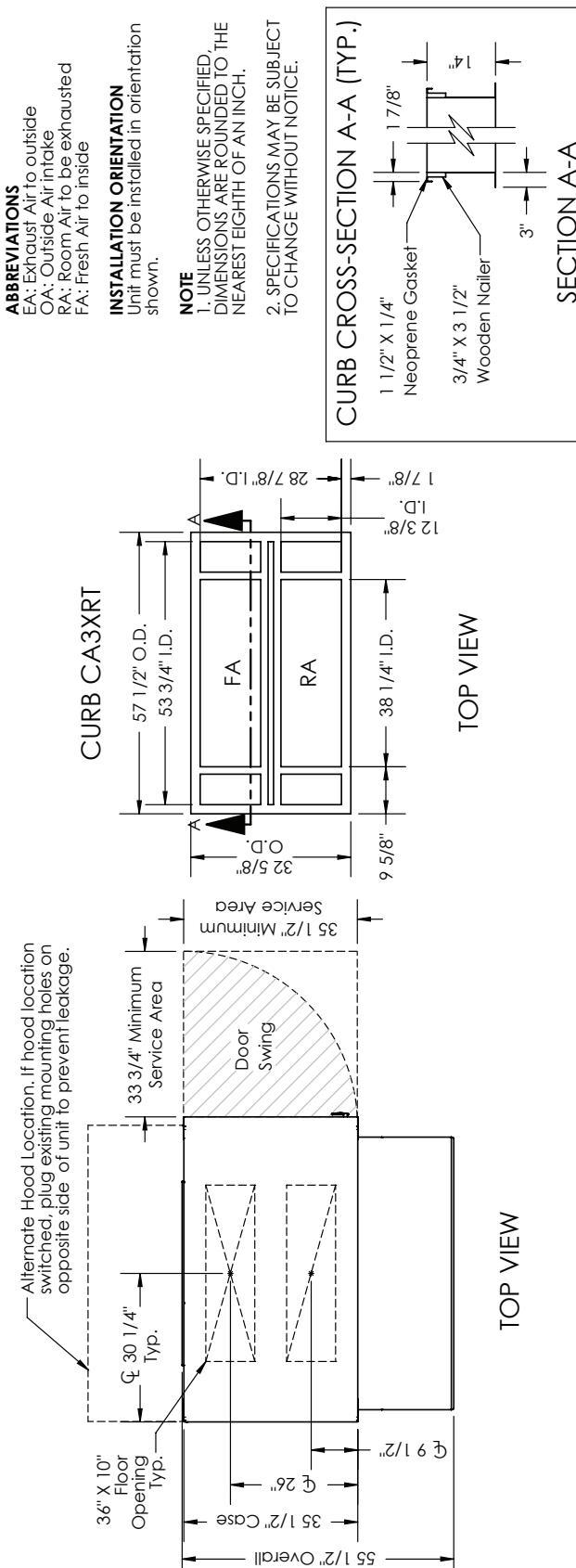


LEFT VIEW

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.





UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Duct configuration is field convertible. Weather hood can be moved in the field. RA/EA airstream can be switched with OA/FA airstream.



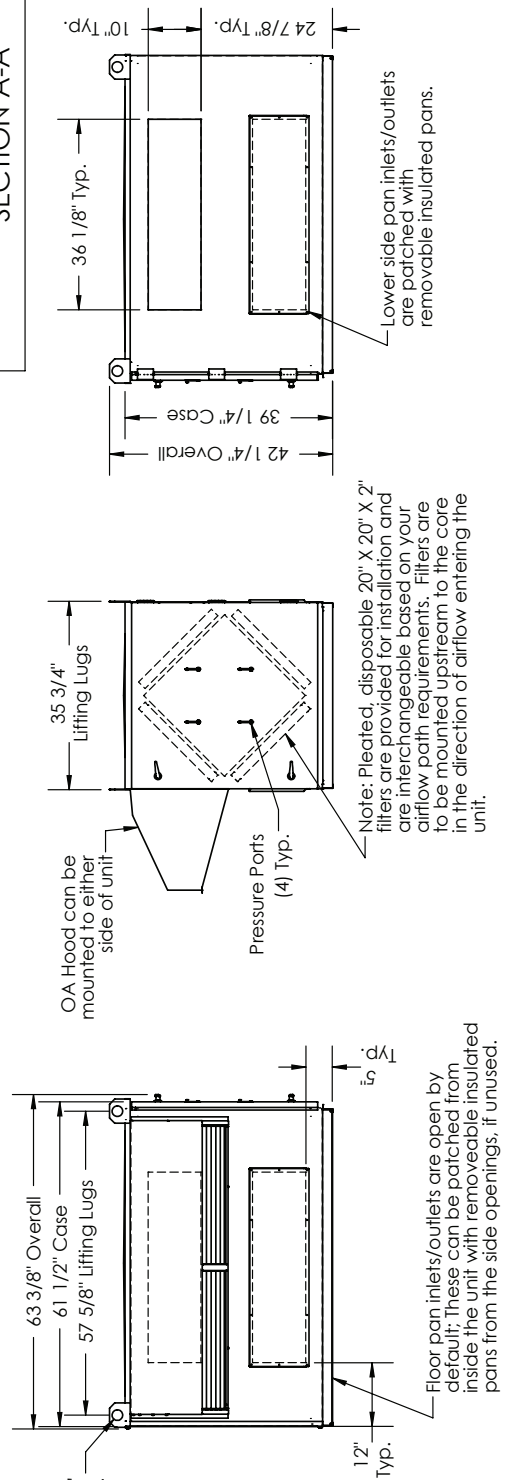
AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

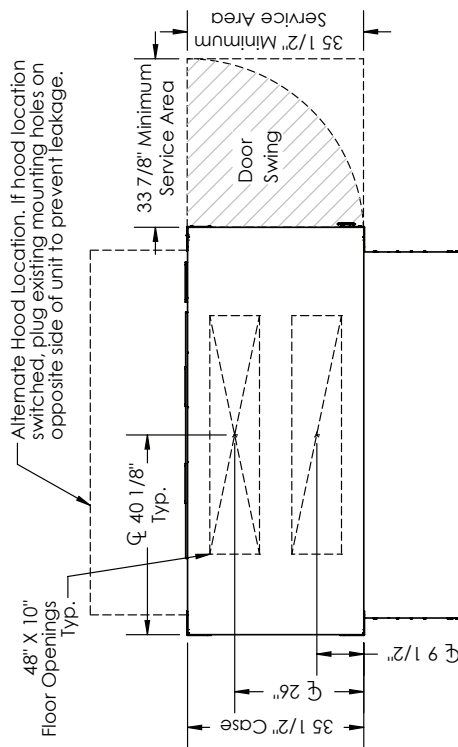


RIGHT VIEW

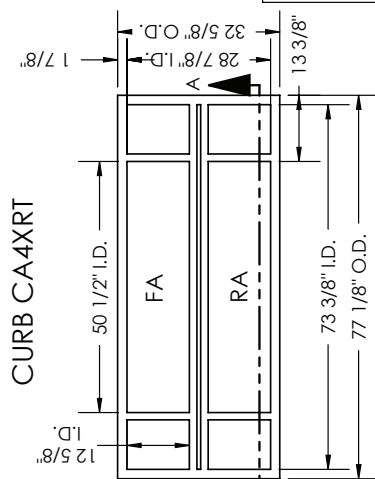
FRONT VIEW

LEFT VIEW

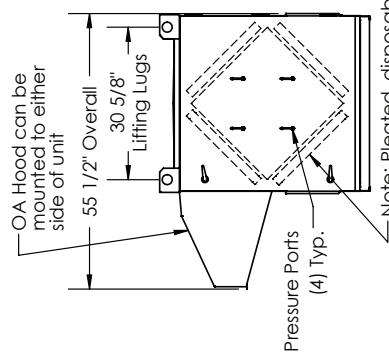




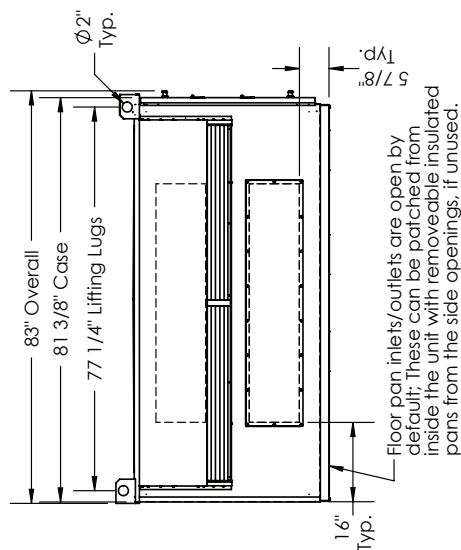
TOP VIEW



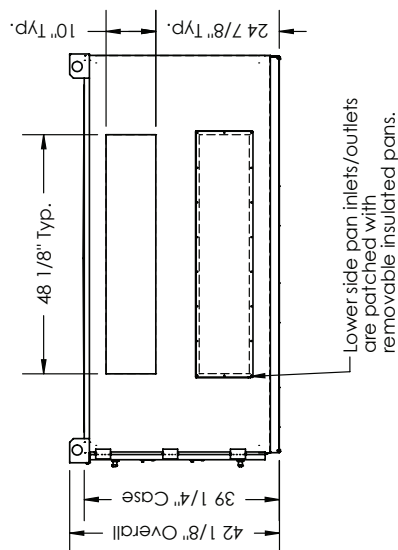
TOP VIEW



Note: Pleated, disposable 20" X 20" X 2" filters are provided for installation and are interchangeable based on your airflow path requirements. Filters are to be mounted upstream to the core in the direction of airflow entering the unit.



LEFT VIEW



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

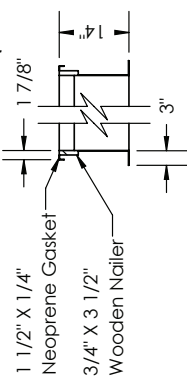
Unit must be installed in orientation shown.

NOTE

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

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

CURB CROSS-SECTION A-A (TYP.)



SECTION A-A

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Duct configuration is field convertible. Weather hood can be moved in the field. RA/EA airstream can be switched with OA/FA airstream.

PA SERIES

INDOOR UNIT

Unlimited Modular Panels



Download specification at:
renewaire.com/specifications

Energy Recovery Module



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Standard Features:

Insulated sheet metal panels easily slide into receivers to enclose stacks of energy exchange cores using unique patented design, US Patent 5,660,228

Individual PA-Series units can be joined together to provide unlimited airflow capacities for larger air handling systems.

Blower not included and must be specified to meet job requirements.

Insulation:

One inch, high density, FSK faced, fiberglass

Options:

Knockdown

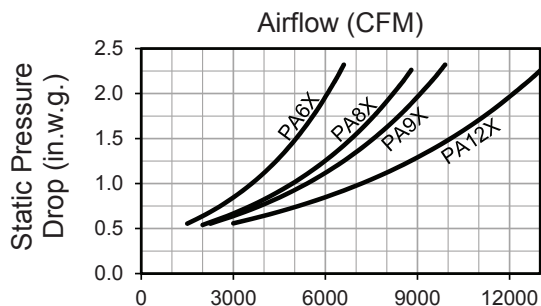
Assembled on structural forklift base

Accessories:

Filters - MERV 13, 2" (shipped loose)

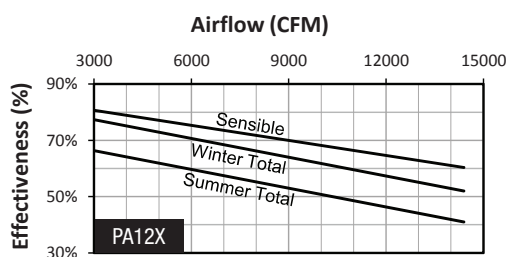
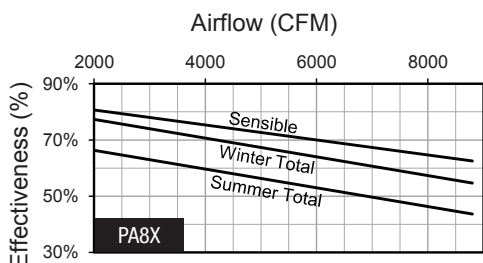
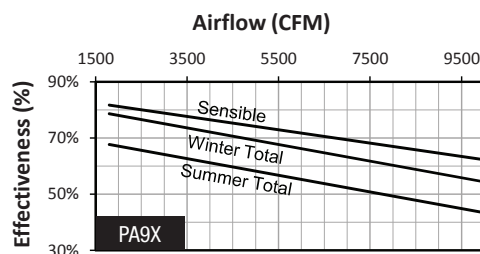
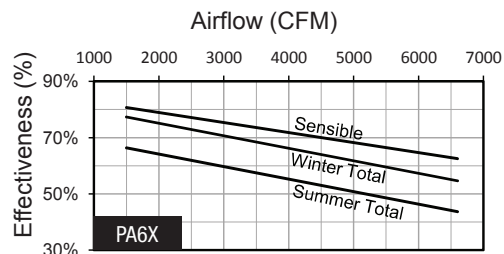
Description	PA6X	PA8X	PA9X	PA12X
Typical Airflow Range CFM	1,500-6,600	2,000-8,800	2,250-9,900	3,000-13,200
AHRI 1060 Certified Core	Six L125-G5	Eight L125-G5	Nine L125-G5	Twelve L125-G5
Unit Dimensions & Weight	73 1/2" L x 37 1/4" W x 66 1/4" H 522-565 lbs.	73 1/2" L x 37 1/4" W x 86" H 650-700 lbs.	109 1/2" L x 37 1/4" W x 66 1/4" H 740-910 lbs.	109 1/2" L x 37 1/4" W x 86" H 936-1,000 lbs.
Max. Shipping Dimensions & Weight (on pallet, assembled only)	96" L x 47" W x 75" H 700 lbs.	96" L x 47" W x 92" H 850 lbs.	124" L x 48" W x 75" H 1,100 lbs.	124" L x 48" W x 95" H 1,200 lbs.
Filters MERV 8: 20" x 20" x 2"	Total qty. 12	Total qty. 16	Total qty. 18	Total qty. 24

AIRFLOW PERFORMANCE



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

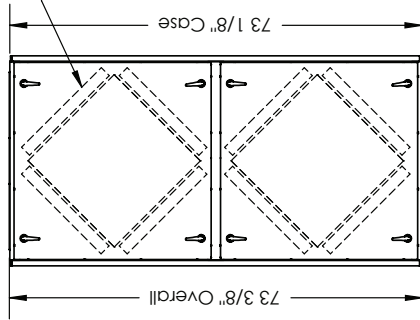
CORE PERFORMANCE



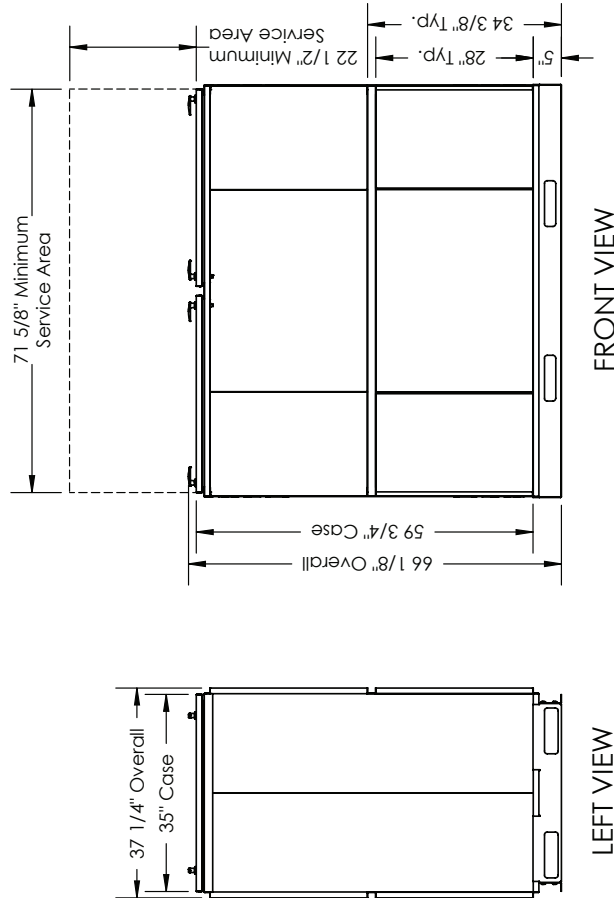
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

PA6X Energy Recovery Module



TOP VIEW



LEFT VIEW

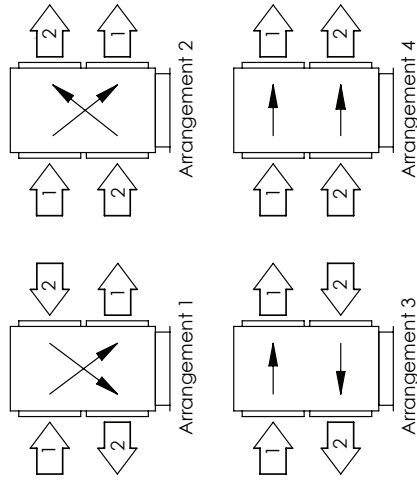
FRONT VIEW

ABBREVIATION
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

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

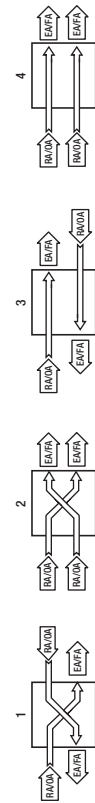
AVAILABLE AIRFLOW ARRANGEMENTS (SIDE VIEW)



Performance Derating:
Airflow Arrangements 3 & 4 result in lower energy transfer.
Reduce sensible effectiveness by 2 percentage points.
Reduce total effectiveness by 1 percentage point.

AIRFLOW CONFIGURATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream. Knockdown can be field assembled for multiple duct configurations. Multiple cabinets can be aligned for unlimited airflow.

ABBREVIATION

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

INSTALLATION ORIENTATION

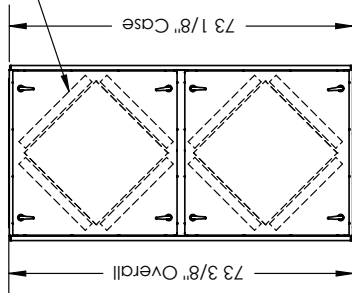
Unit must be installed in orientation shown.

NOTE:

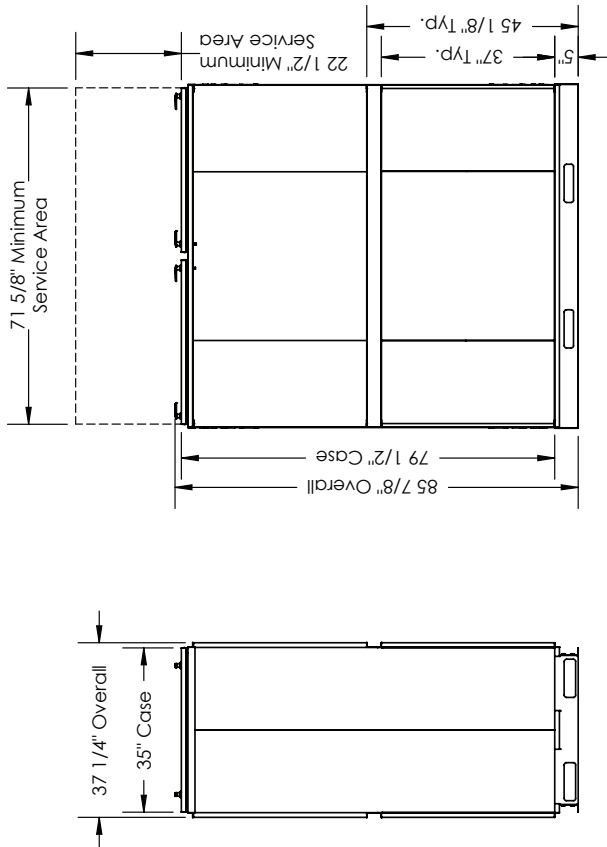
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

Filters to be placed on the upstream side of the cores, depending on airflow arrangement chosen. Filters are 2" X 20" X 20" pleated disposable.



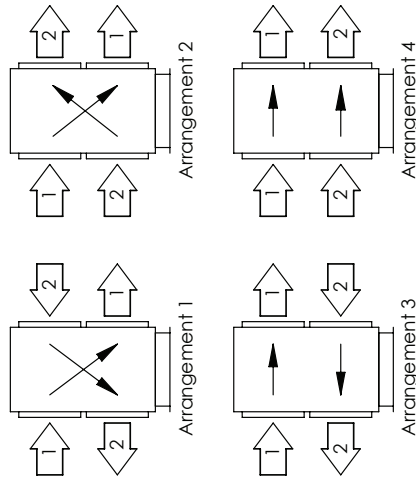
TOP VIEW



FRONT VIEW

LEFT VIEW

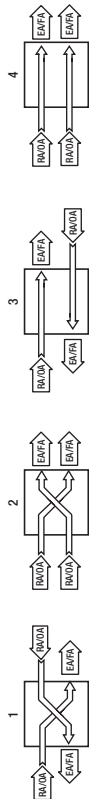
AVAILABLE AIRFLOW ARRANGEMENTS (SIDE VIEW)



Performance Derating:
Airflow Arrangements 3 & 4 result in lower energy transfer.
Reduce sensible effectiveness by 2 percentage points.
Reduce total effectiveness by 1 percentage point.

AIRFLOW CONFIGURATION

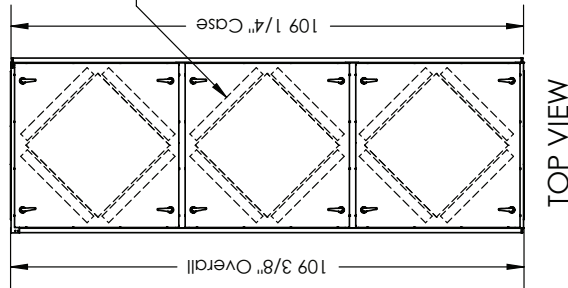
Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream. Knockdown can be field assembled for multiple duct configurations. Multiple cabinets can be aligned for unlimited airflow.

PA9X Energy Recovery Module

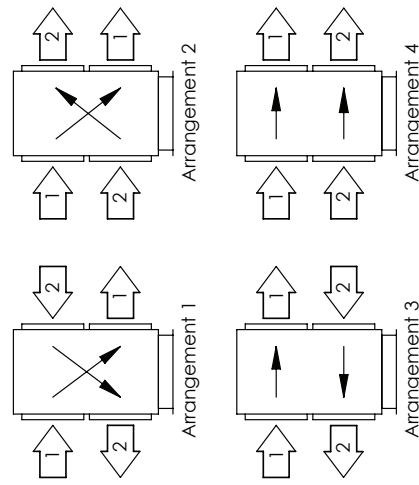


ABBREVIATION
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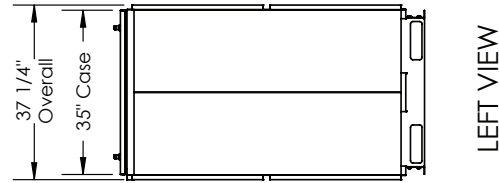
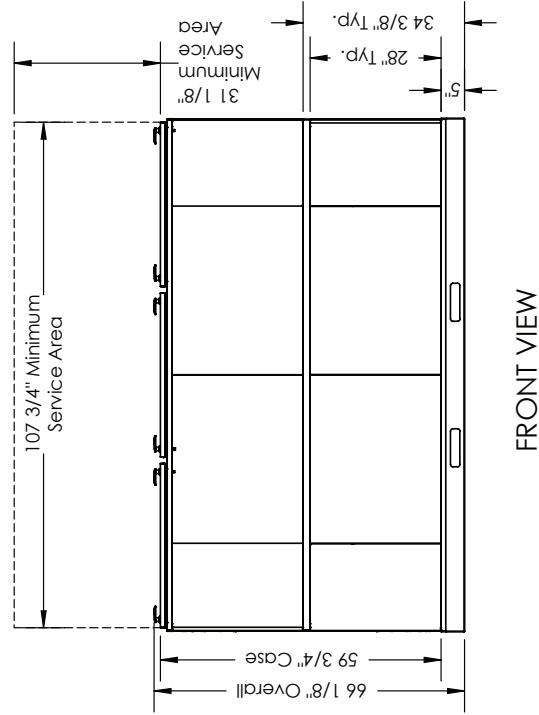
INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

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

AVAILABLE AIRFLOW ARRANGEMENTS (SIDE VIEW)

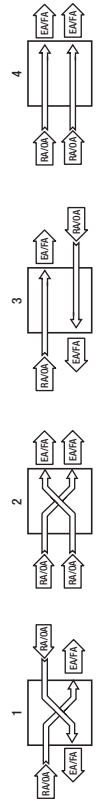


Performance Derating:
Airflow Arrangements 3 & 4 result in lower energy transfer.
Reduce sensible effectiveness by 2 percentage points.
Reduce total effectiveness by 1 percentage point.



AIRFLOW CONFIGURATION

Available as shown:



UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream. Knockdown can be field assembled for multiple duct configurations. Multiple cabinets can be aligned for unlimited airflow.

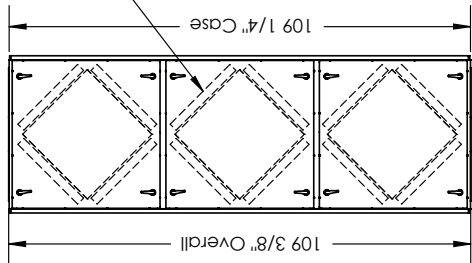


PA12X Energy Recovery Module

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

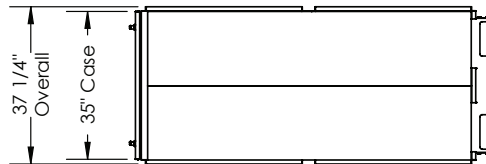
INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

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

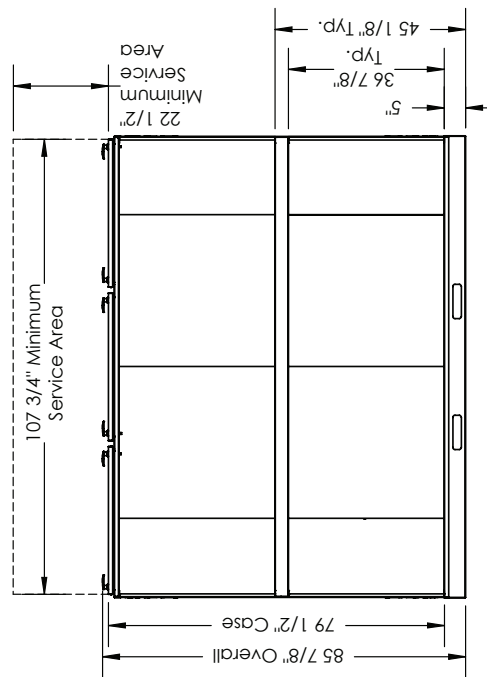


Filters to be placed on the upstream side of the cores, depending on airflow arrangement chosen. Filters are 2" X 20" X 20" pleated disposable.

TOP VIEW

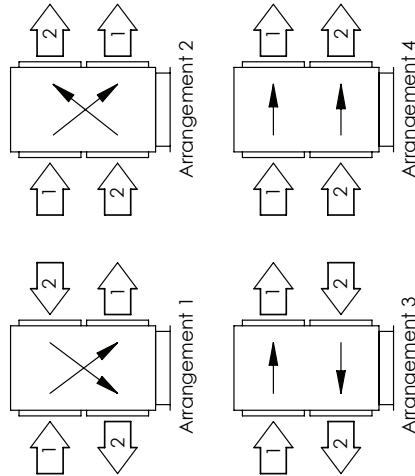


LEFT VIEW



FRONT VIEW

AVAILABLE AIRFLOW ARRANGEMENTS (SIDE VIEW)



Performance Derating:
 Airflow Arrangements 3 & 4 result in lower energy transfer.
 Reduce sensible effectiveness by 2 percentage points.
 Reduce total effectiveness by 1 percentage point.

AIRFLOW CONFIGURATION
 Available as shown:



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream. Knockdown can be field assembled for multiple duct configurations. Multiple cabinets can be aligned for unlimited airflow.



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AHRI 1060

CERTIFIED PERFORMANCE

Energy recovery component certified in accordance with AHRI Standard 1060-2013.
Actual performance in packaged equipment may vary.



AHRI-1060 Certified Performance - Model Number L125-G5												
Type			Tilt Angle			Nominal Airflow				Pressure Drop		
Plate			N/A			100% - 750 SCFM 75% - 563 SCFM				0.65 in. H ₂ O		
Leakage Ratings				Thermal Effectiveness Ratings at 0" Pressure Differential								
Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow		Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
-1 in. H ₂ O	1.0%	1.00	N/A	750 CFM	Heating Cooling	70% 70%	52% 42%	64% 53%	750 CFM	70% 70%	52% 42%	64% 53%
0 in. H ₂ O	0.0%	1.02	N/A	563 CFM	Heating Cooling	74% 74%	59% 49%	69% 58%	563 CFM	74% 74%	59% 49%	69% 58%
1 in. H ₂ O	0.0%	1.05	N/A									

NOTE: SCFM = Standard Cubic Feet per Minute OACF = Outdoor Air Correction Factor EATR = Exhaust Air Transfer Ratio N/A = Not Applicable

CA & PA MODEL CONFIGURATION GUIDE

Note: Not all options are available on every model.

MODEL NUMBER						J						-	-	-	-	-	-	-	-	-	-	-	-	-	N
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Digits 1 - 2:	Model
"CA-2X" = Cabinet Applied 2 Cores "CA-3X" = Cabinet Applied 3 Cores "CA-4X" = Cabinet Applied 4 Cores "PA-6X" = Panelized Applied 6 Cores "PA-8X" = Panelized Applied 8 Cores "PA-9X" = Panelized Applied 9 Cores "PA12X" = Panelized Applied 12 Cores	

Digits 7 - 8:	Location (see Restriction 1)
"IN" = Indoor "RT" = Rooftop	

Digit 9:	Forklift Base
"-" = None (CA Models) "9" = Forklift Base (PA Models)	

Digit 10:	Orientation (see Restrictions 2 & 3)
"1" = Opposite-side Entry, Cross-flow "2" = Same-side Entry, Cross-flow "3" = Opposite-side Entry, Parallel-flow "4" = Same-side Entry, Parallel-flow "-" = Flexible Airflow	

Digit 11:	Wall Type (see Restriction 4)
"S" = Single "D" = Double	

Digit 24:	Other Options (see Restriction 5, 6 & 7)
"-" = None "K" = Knockdown "A" = Assembled "W" = White Paint "C" = Custom Paint "X" = Custom Unit	

Digit 25:	Safety Listing
"N" = Non-Listed	

***NOTES:**

Digit 6 "J" = G5 Core Type Digits 12-23 are not used in these models.

Restrictions:	
1: Location Code "RT" only available with CA models. 2: Orientation Code "-" only available on CA models & PA models with Flexible Packaging Code "K". 3: Orientation Codes "1", "2", "3", & "4" only available with PA models with Flexible Packaging Code "A". 4: Wall Code "D" only available with CA models. 5: Other Option Codes "W" & "C" only available with CA models. 6: Other Option Code "W" only available with CA models with Location Code "RT". 7: Other Option Codes "A" & "K" only available with PA models.	

For Technical Support E-mail: RenewaireSupport@renewaire.com
 To Place an Order E-mail: RenewaireOrders@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

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.

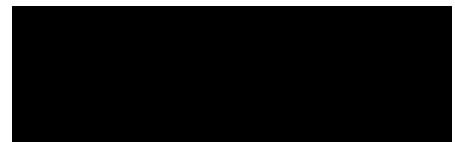
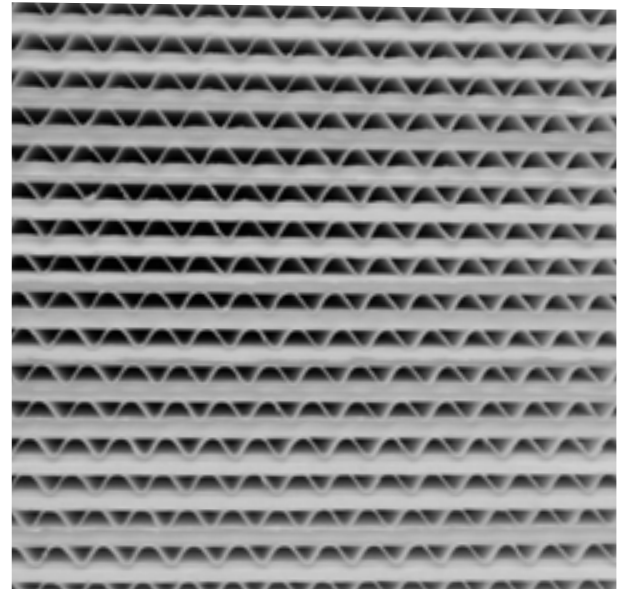
GOVERNMENT

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



LIT113_00 (01/19)



EV450 & HE SERIES

COMMERCIAL ERV CATALOG

JANUARY 2019

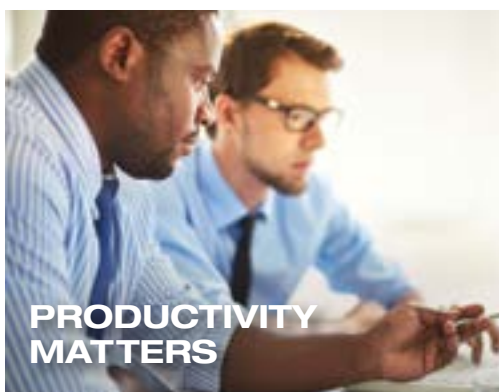
RENEWAIRE.COM | 800.627.4499

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 ERV technologies. 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 (CO₂)—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) that **optimize energy efficiency**, lower capital costs via **HVAC load reduction** and **decrease operational expenses** by minimizing equipment needs, resulting in significant energy savings. Our ERVs 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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EV450 - Light Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
EV450IN - STANDARD	Indoor	200-540 CFM	4-5
EV450IN - EC MOTOR OPTION	Indoor	200-530 CFM	6-7
EV450RT - STANDARD	Rooftop	240-500 CFM	8-9, 12-13
EV450RT - EC MOTOR OPTION	Rooftop	200-510 CFM	10-13

HE1X - Light Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE1XINH - STANDARD	Indoor	250-925 CFM	14-15
HE1XINH - EC MOTOR OPTION	Indoor	250-1,100 CFM	16-17
HE1XINH - STANDARD BYPASS OPTION	Indoor	250-925 CFM	18-19
HE1XINH - EC MOTOR BYPASS OPTION	Indoor	250-1,100 CFM	20-21
HE1XINV - STANDARD	Indoor	250-925 CFM	22-23
HE1XINV - EC MOTOR OPTION	Indoor	250-1,100 CFM	24-25
HE1XINV - STANDARD BYPASS OPTION	Indoor	250-925 CFM	26-27
HE1XINV - EC MOTOR BYPASS OPTION	Indoor	250-1,100 CFM	28-29
HE1XRT - STANDARD	Rooftop	250-870 CFM	30-32
HE1XRT - EC MOTOR OPTION	Rooftop	250-1,100 CFM	34-36
HE1XRTC - STANDARD	Rooftop	500-900 CFM	38-39
HE1XRTC - EC MOTOR OPTION	Rooftop	500-1,100 CFM	40-41

HE1.5X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE1.5XINH - STANDARD	Indoor	375-1,575 CFM	42-43
HE1.5XINH - EC MOTOR OPTION	Indoor	375-1,575 CFM	44-45
HE1.5XINH - STANDARD BYPASS OPTION	Indoor	375-1,575 CFM	46-47
HE1.5XINH - EC MOTOR BYPASS OPTION	Indoor	375-1,575 CFM	48-49
HE1.5XINV - STANDARD	Indoor	375-1,575 CFM	50-51
HE1.5XINV - EC MOTOR OPTION	Indoor	375-1,575 CFM	52-53
HE1.5XINV - STANDARD BYPASS OPTION	Indoor	375-1,575 CFM	54-55
HE1.5XINV - EC MOTOR BYPASS OPTION	Indoor	375-1,575 CFM	56-57
HE1.5XRT - STANDARD	Rooftop	375-1,575 CFM	58-60
HE1.5XRT - EC MOTOR OPTION	Rooftop	375-1,525 CFM	62-64

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HE2X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE2XINH - STANDARD	Indoor	500-2,200 CFM	66-67
HE2XINH - STANDARD BYPASS OPTION	Indoor	500-2,200 CFM	68-69
HE2XINV - STANDARD	Indoor	500-2,200 CFM	70-71
HE2XINV - STANDARD BYPASS OPTION	Indoor	500-2,200 CFM	72-73
HE2XRT - STANDARD	Rooftop	500-2,000 CFM	74-76
HE2XRTC - STANDARD	Rooftop	500-1,700 CFM	78-79

HE3X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE3XINH - STANDARD	Indoor	750-3,300 CFM	80-81
HE3XINH - STANDARD BYPASS OPTION	Indoor	750-3,300 CFM	82-83
HE3XINV - STANDARD	Indoor	750-3,300 CFM	84-85
HE3XINV - STANDARD BYPASS OPTION	Indoor	750-3,300 CFM	86-87
HE3XRT - STANDARD	Rooftop	750-3,300 CFM	88-90
HE3XRTC - STANDARD	Rooftop	1,100-2,400 CFM	92-93

HE4X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE4XINH - STANDARD	Indoor	1,000-4,400 CFM	94-95
HE4XINH - STANDARD BYPASS OPTION	Indoor	1,000-4,400 CFM	96-97
HE4XINV - STANDARD	Indoor	1,000-4,400 CFM	98-99
HE4XINV - STANDARD BYPASS OPTION	Indoor	1,000-4,400 CFM	100-101
HE4XRT - STANDARD	Rooftop	1,000-4,400 CFM	102-104
HE4XRTC - STANDARD	Rooftop	2,500-3,900 CFM	106-107

HE6X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE6XIN - STANDARD	Indoor	1,500-6,500 CFM	108-109
HE6XIN - STANDARD BYPASS OPTION	Indoor	1,500-6,500 CFM	110-111
HE6XRT - STANDARD	Rooftop	1,500-6,500 CFM	112-113

HE8X - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
HE8XIN - STANDARD	Indoor	2,000-7,950 CFM	114-115
HE8XIN - STANDARD BYPASS OPTION	Indoor	2,000-7,950 CFM	116-117
HE8XRT - STANDARD	Rooftop	2,000-7,950 CFM	118-119

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 zero exhaust air transfer at normal balanced operating conditions. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

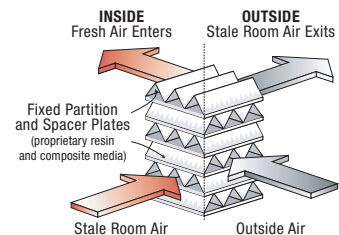
OPTIMIZING ENERGY EFFICIENCY

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 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



EV 450IN

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 200-540 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:

54 1/2" L x 16 3/8" W x 36 3/4" H
 137-199 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

62" L x 42" W x 22" H
 250 lbs.

Motor(s), choice of:

Qty. 1, 0.6 HP (standard single phase)
 Qty. 1, 0.5 HP (standard three phase)

Options:

Qty. 1, Variable Speed/ECM - Direct Drive Motors
 (see EV450IN EC Motor submittal) -
 0.5 HP, 120V/1Ph/60HZ,
 0.5 HP, 208-230V/1Ph/60HZ

Fused disconnect

Integrated programmable controls -
 enhanced, premium

Qty. 2, Factory mounted filter alarms -
 both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Backdraft damper 10"

Wall cap 10" - galvanized, paintable galvanneal

Vibration isolation kit

Hanging bracket kit

Transition kit 10" - round, qty. 2

Flange kit - rectangular 12" x 8", 2 flanges

Solid state speed control kit - 115V, qty. 1,
 208-230V, qty. 1

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)

Smoke detector - duct mount (SD-D)

Louver with 10" round duct connection -
 12" (W) x 12" (H)

Electric duct heater - RH series (1-11.5 kW);
 EK series (1-175 kW);

designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450IN.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.6	120	60	Single	7.2	9.0	15
0.6	208-230	60	Single	3.9-3.6	4.9	15
0.6	277	60	Single	3.5	4.4	15
0.5	208-230	60	Three	1.7-1.5	2.1	15
0.5	460	60	Three	0.8	1.0	15

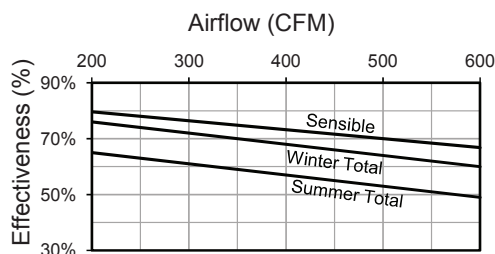
UNIT PERFORMANCE

Airflow CFM	ESP in H ₂ O	Watts	
		1P	3P
225	1.25	335	181
375	0.89	464	333
420	0.75	518	394
480	0.50	584	472
500	0.43	600	491
540	0.25	640	540
575	0.00	690	610

Note: Watts is for the entire unit.

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

CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

ABBREVIATIONS

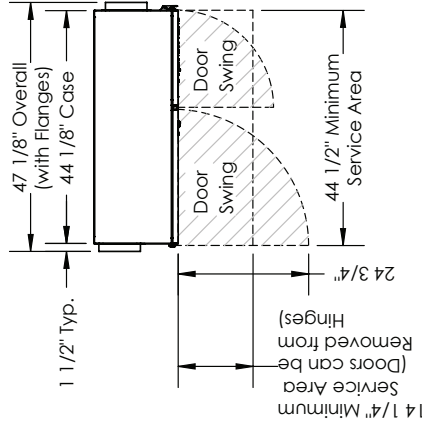
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

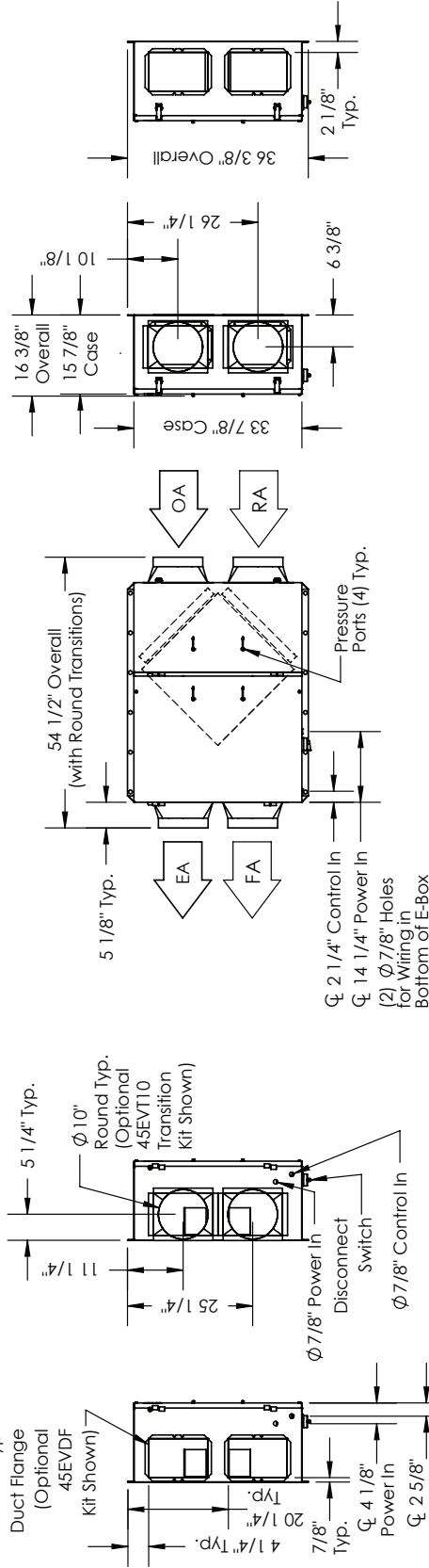
Unit may be installed in any orientation.

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



RIGHT VIEW

FRONT VIEW

LEFT VIEW

AIRFLOW CONFIGURATION
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 450IN

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 200-530 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:

54 1/2" L x 16 3/8" W x 36 3/4" H
140-202 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

62" L x 42" W x 22" H
250 lbs.

Motor(s):

Qty. 1, 0.5 HP, Direct drive EC blower/
motor package

Options:

Fused disconnect
Integrated programmable controls -
enhanced, premium
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
Backdraft damper 10"
Wall cap 10" - galvanized, paintable galvanneal
Vibration isolation kit
Hanging bracket kit
Transition kit - 10" round, qty. 2
Flange kit - rectangular 12" x 8", 2 flanges
Potentiometer speed control - remote installed
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)
Smoke Detector - duct mount (SD-D)
Louver with 10" round duct connection -
12" (W) x 12" (H)
Electric duct heater - RH series (1-11.5 kW);
EK series (1-175 kW);
designed for indoor ductwork installation only

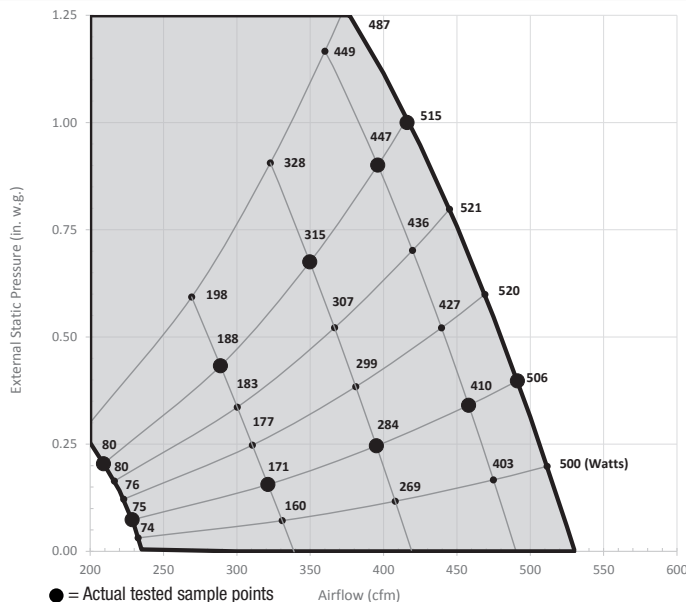
Note: Indirect Gas-Fired Duct Furnace is not available on the EV450IN.

EC MOTOR OPTION OPERATING RANGE

EV450IN EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
229	0.07	75
321	0.16	171
395	0.25	284
458	0.34	410
491	0.40	506
209	0.20	80
289	0.43	188
350	0.67	315
396	0.90	447
416	1.00	515

Note: Watts is for the entire unit.

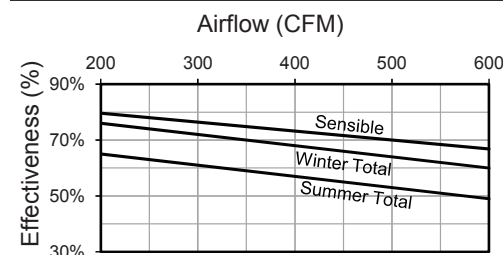
Note: Airflow performance includes effect of clean, standard filter supplied with unit.



CORE PERFORMANCE

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	10.1	15
0.5	208-230	60	Single	4.8	6.0	15



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

ABBREVIATIONS

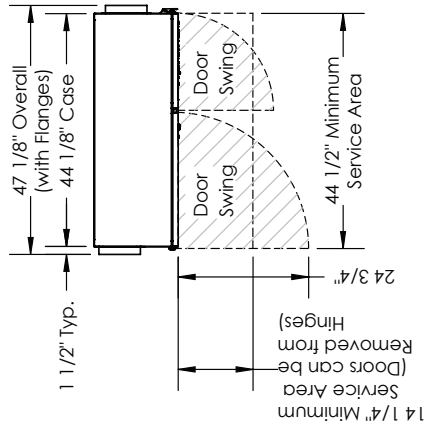
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

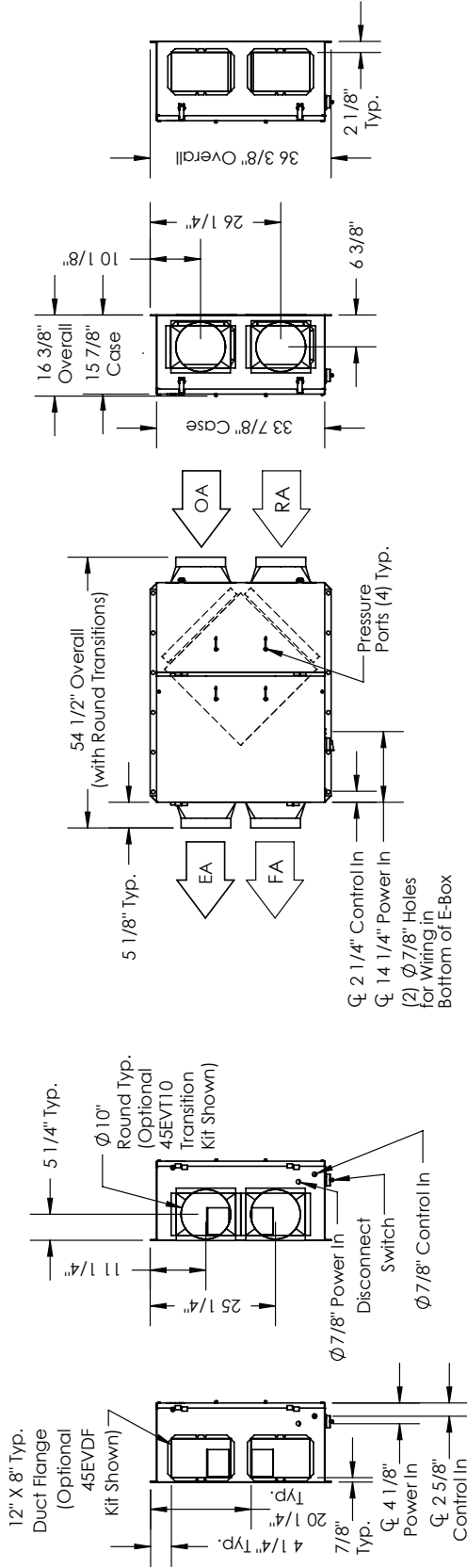
Unit may be installed in any orientation.

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



RIGHT VIEW

FRONT VIEW

LEFT VIEW

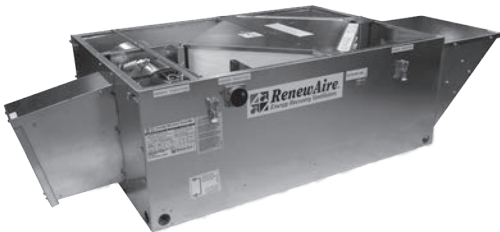
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

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



EV 450RT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 240-500 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:

Non-fused disconnect

24 VAC transformer/relay package

Filters:

Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:

75" L x 36 1/2" W x 19 1/4" H

184-243 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 25" H

350 lbs.

Motor(s), choice of:

Qty. 1, 0.6 HP (standard single phase)

Qty. 1, 0.5 HP (standard three phase)

Options:

Qty. 1, Variable Speed/ECM - Direct Drive Motors
 (see EV450IN EC Motor submittal) -

0.5 HP, 120V/1Ph/60HZ,

0.5 HP, 208-230V/1Ph/60HZ

Fused disconnect

Integrated programmable controls -
 enhanced, premium

Qty. 2, Factory mounted filter alarms -
 both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Solid state speed control kit - 115V, qty. 1,
 208-230V, qty. 1

RA/FA Horizontal plenum box - RTC/RTH configuration

RA/FA Vertical and horizontal plenum box
 - RTR/RTF configuration

Rooftop adapter transition paint - white, custom colors

Roof curb - standard 14"

Curb wind clip

Engineered combo curb for Carrier RTU

Engineered combo curb for Trane RTU

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)

Smoke detector - duct mount (SD-D)

Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450RT.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.6	120	60	Single	7.2	9.0	15
0.6	208-230	60	Single	3.9-3.6	4.9	15
0.6	277	60	Single	3.5	4.4	15
0.5	208-230	60	Three	1.7-1.5	2.1	15
0.5	460	60	Three	0.8	1.0	15

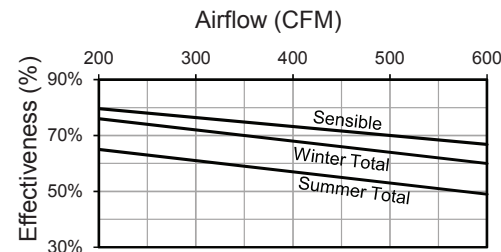
UNIT PERFORMANCE

Airflow CFM	ESP in H ₂ O	Watts	
		1P	3P
240	1.00	425	243
375	0.75	493	341
450	0.50	534	412
500	0.25	563	461
550	0.00	593	516

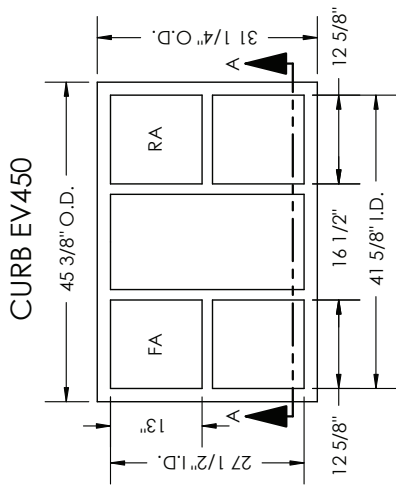
Note: Watts is for the entire unit.

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

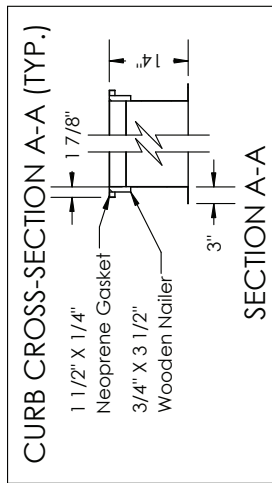
CORE PERFORMANCE



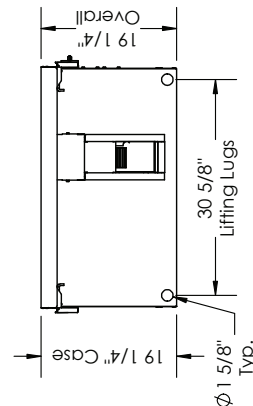
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



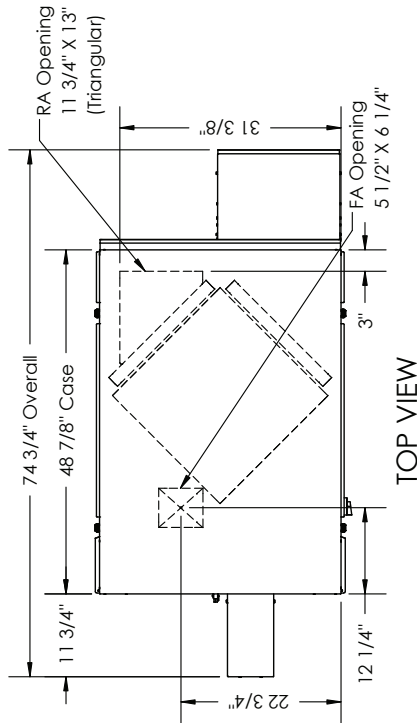
TOP VIEW



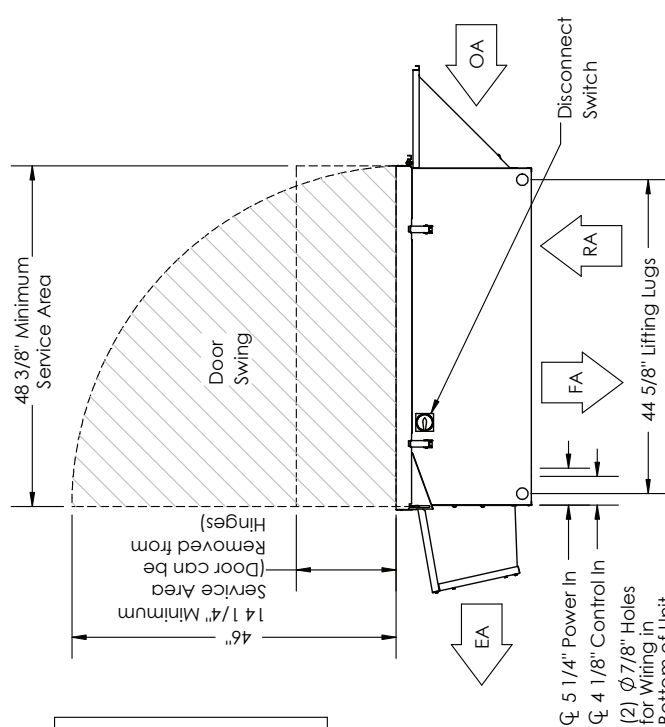
SECTION A-A



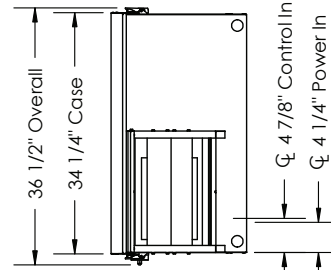
LEFT VIEW



TOP VIEW



FRONT VIEW



RIGHT VIEW

ABBREVIATION

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

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE:

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

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Rooftop adapter accessories can be used to provide RTR and RTF (45RTRF) or RTH and RTC (45RTH) airflow.



EV 450RT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 200-510 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package

Filters:

Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:

75" L x 36 1/2" W x 19 1/4" H
 187-246 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 25" H
 350 lbs.

Motor(s):

Qty. 1, 0.5 HP, Direct drive EC blower/
 motor package

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Potentiometer speed control - remote installed
 RA/FA Horizontal plenum box
 - RTC/RTH configuration
 RA/FA Vertical and horizontal plenum box
 - RTR/RTF configuration
 Rooftop adapter transition paint - white,
 custom colors
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Trane RTU
 Engineered combo curb for Carrier RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450RT.

EC MOTOR OPTION OPERATING RANGE

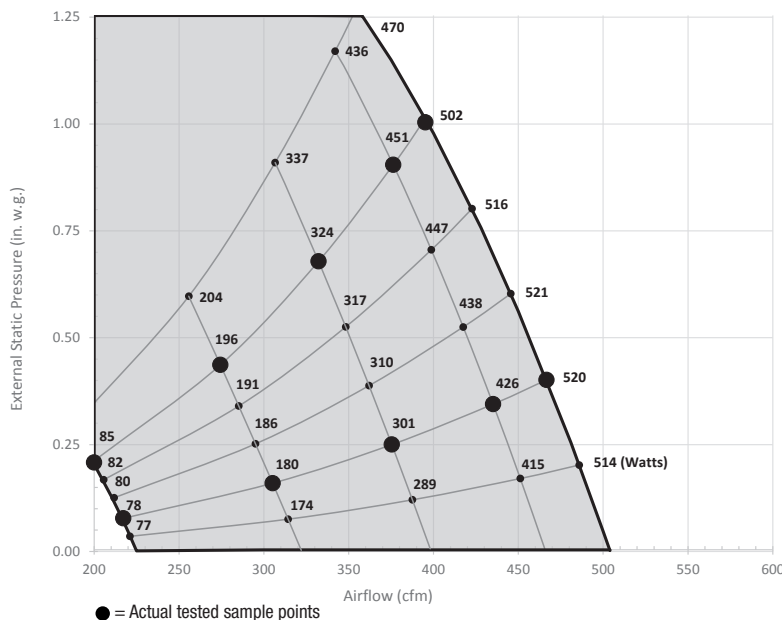
EV450RT EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
217	0.07	78
305	0.16	180
375	0.25	301
435	0.34	426
467	0.40	520
200	0.20	85
274	0.43	196
332	0.67	324
376	0.90	451
395	1.00	502

Note: Watts is for the entire unit.

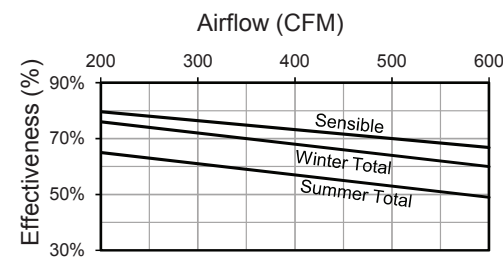
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

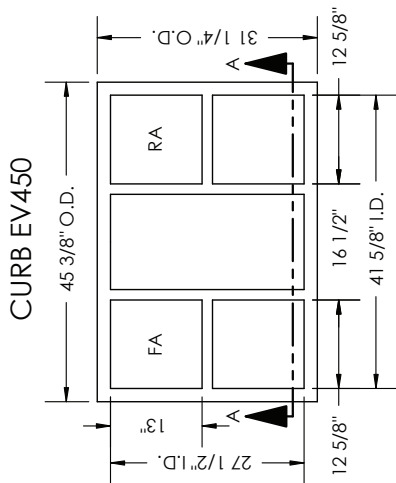
HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	10.1	15
0.5	208-230	60	Single	4.8	6.0	15



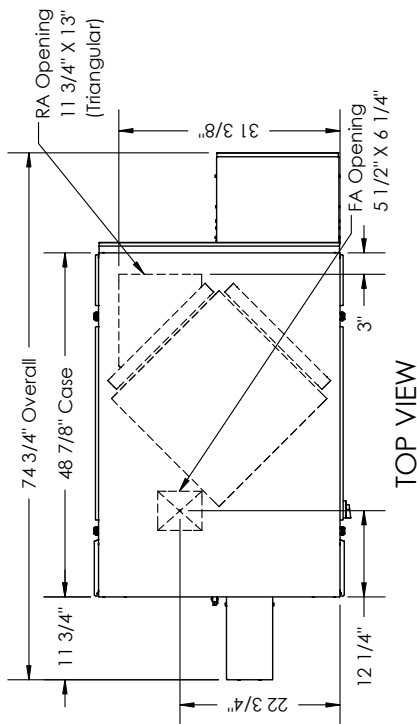
CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

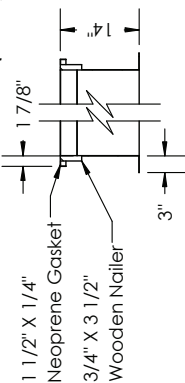


TOP VIEW

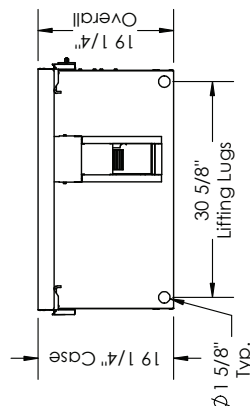


TOP VIEW

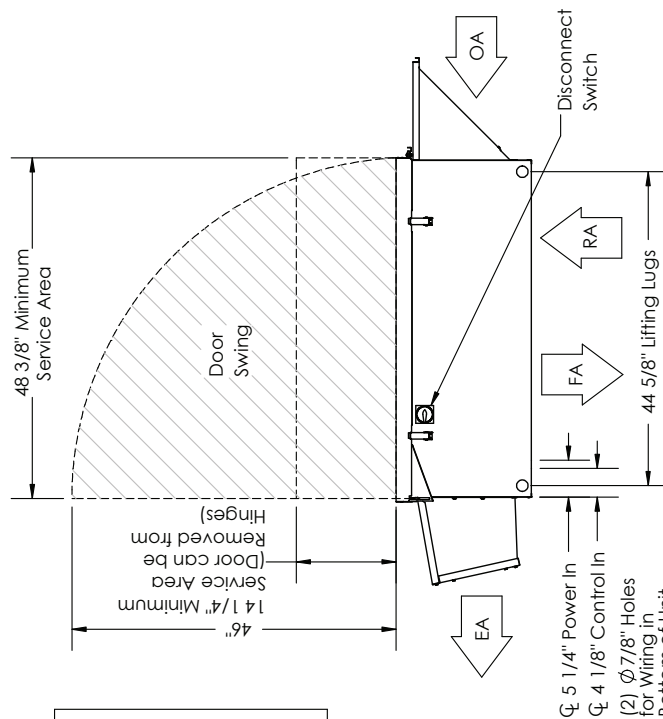
CURB CROSS-SECTION A-A (TYP.)



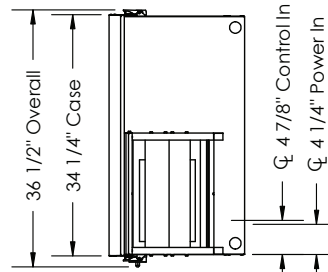
SECTION A-A



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ABBREVIATION

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

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE:

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

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Rooftop adapter accessories can be used to provide RTR and RTF (45RTRF) or RTH and RTC (45RTH) airflow.



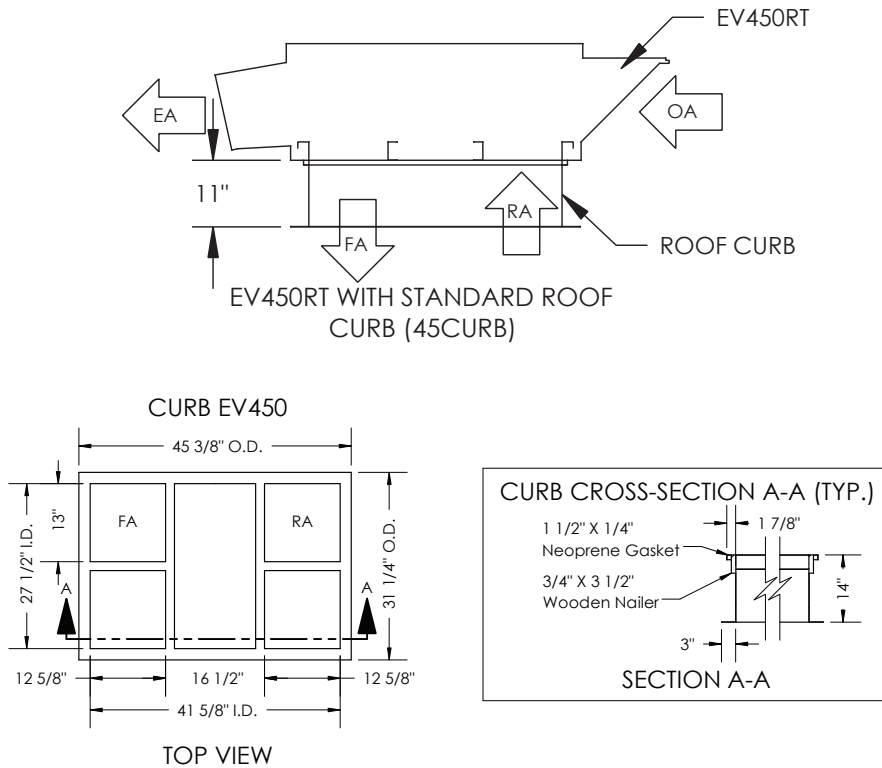
EV 450RT

Energy Recovery Ventilator
Standard or EC Motor Option

DUCTING ACCESSORIES

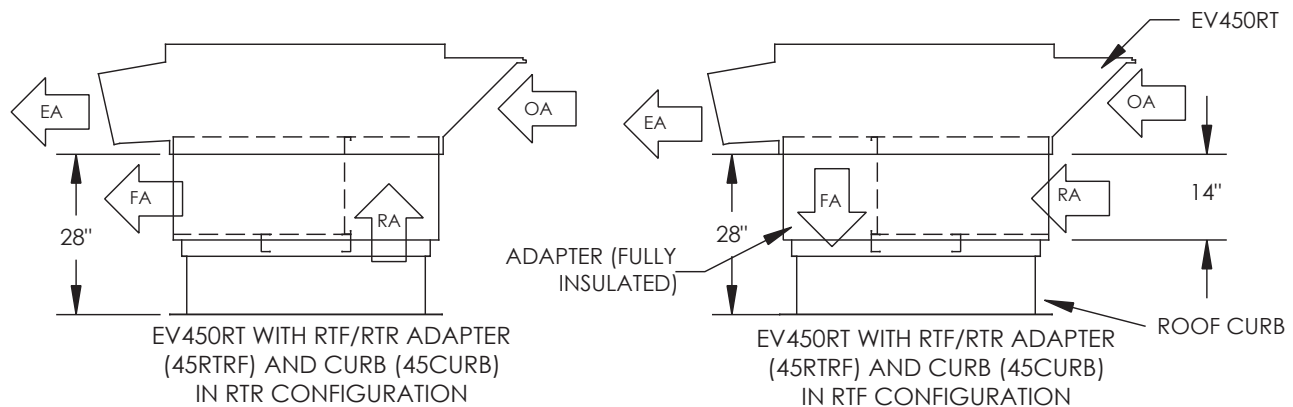
Rooftop Curb (45Curb)

Standard roof curb shown (available option).



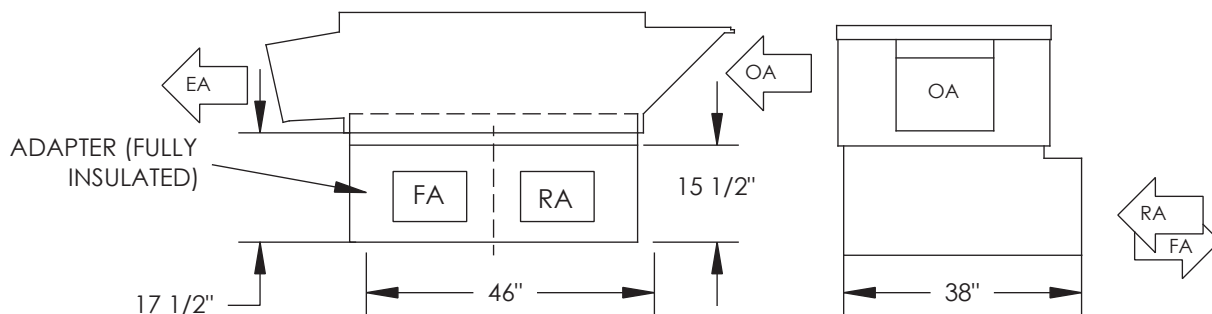
Rooftop Adapter for RTR and RTF Orientations

For horizontal connection of either the Fresh Air duct or the Return Air duct, stack the optional RTF/RTR Adapter on the standard roof curb. Duct openings to be field cut into adapter. Opening location and size is flexible.



Rooftop Adapter for RTC and RTH Orientations

The RTH/RTC Adapter allows horizontal connection of both the Fresh Air and the Return Air ducts. It is also possible to connect the adapter directly to the return plenum of most rooftop units (openings must be cut into RTU). Duct openings to be field cut into adapter. Opening location and size is flexible.



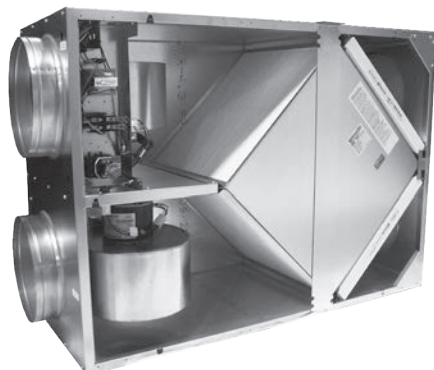
EV450RT WITH ADAPTER (45RTCH)

ABBREVIATIONS

- EA:** Exhaust Air to outdoors
- OA:** Outdoor Air intake
- RA:** Room Air to be exhausted
- FA:** Fresh Air to inside



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

54 3/4" L x 23 3/4" W x 35 3/4" H
 204-275 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

63" L x 30" W x 56" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors
 (see HE1XINH EC Motor submittal) -

0.5 HP, 120V/1Ph/60HZ,

0.5 HP, 208-230V/1Ph/60HZ

Independent blower control

Fused disconnect

Integrated programmable controls -
 enhanced, premium

Bypass economizer damper

(see bypass DIM drawing) -

dry-bulb temperature controls (standard),

enthalpy controls (option)

Low-leakage motorized isolation dampers -

OA, RA or both airstreams

Qty. 2, Factory mounted filter alarms -

both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Backdraft damper 12"

Motorized isolation damper - both airstreams

Wall cap 12" - galvanized, paintable galvanneal

Solid state speed control kit - 115V,

208-230V (1 required per motor)

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)

Smoke Detector - duct mount (SD-D)

Electric duct heater - RH series (1-11.5 kW);

EK series (1-175 kW);

designed for indoor ductwork installation only

Indirect gas-fired duct furnace - GH series

(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.5	0.75	0.9	1.25	1.5
0.75 Single Phase	970 CFM 1,490 Watts	925 CFM 1,375 Watts	860 CFM 1,270 Watts	795 CFM 1,160 Watts	750 CFM 1,090 Watts	635 CFM 950 Watts	480 CFM 825 Watts
0.75 Three Phase	970 CFM 1,246 Watts	925 CFM 1,158 Watts	860 CFM 1,039 Watts	795 CFM 928 Watts	750 CFM 856 Watts	635 CFM 691 Watts	480 CFM 509 Watts

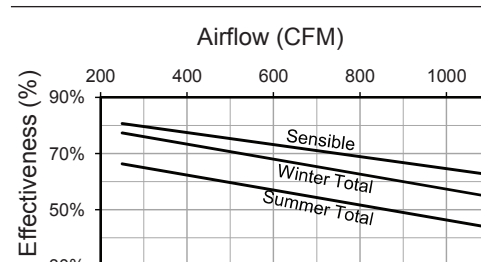
Note: Watts is for the entire unit (two motors).

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

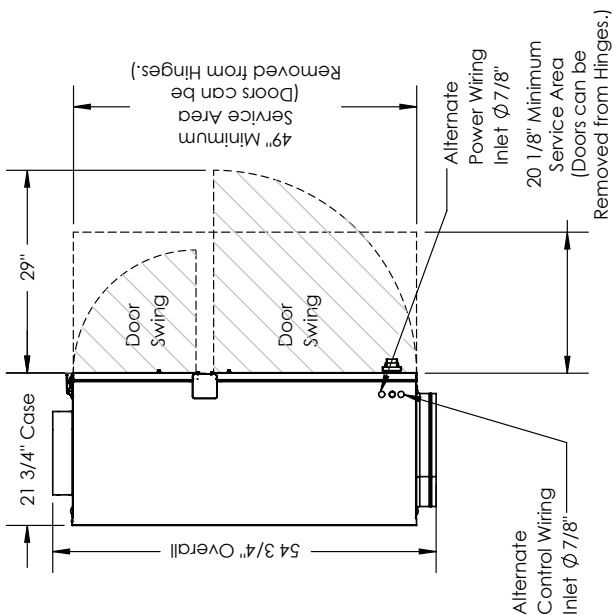
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25
0.75	208-230	60	Single	4.5	10.1	15
0.75	277	60	Single	3.9	8.8	15
0.75	208-230	60	Three	1.7-2.3	5.2	15
0.75	460	60	Three	1.15	2.6	15

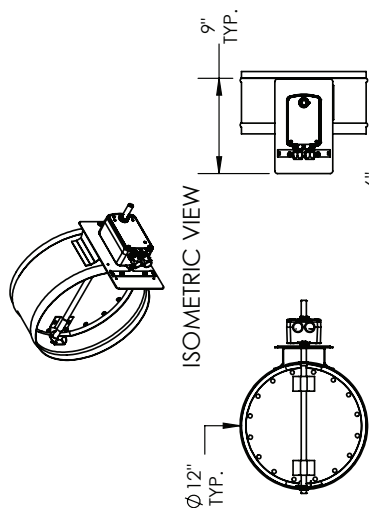
CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



TOP VIEW

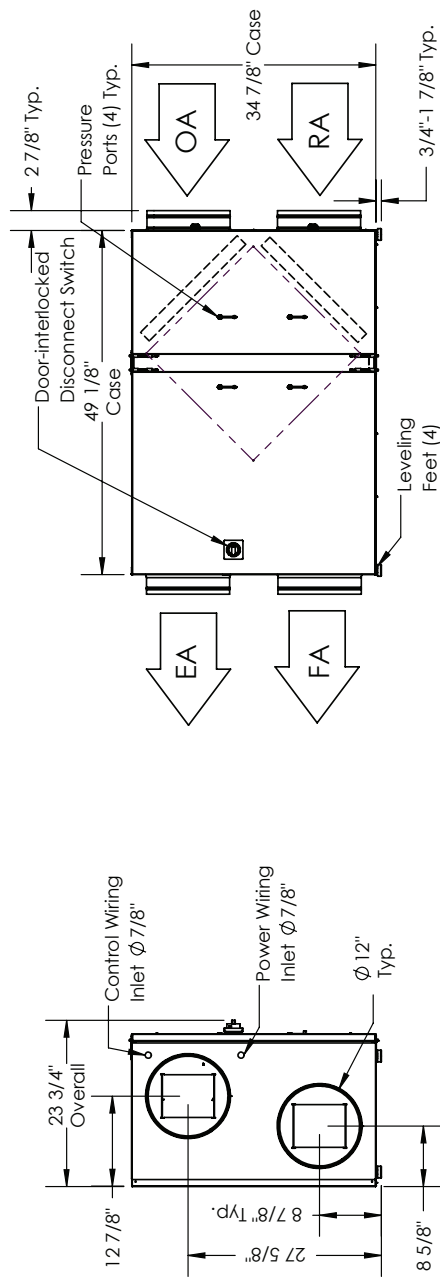


FRONT VIEW
(OA/RA) DAMPER OPTION (QTY.2)
(SHIPPED LOOSE)
SCALE 1:16

ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside

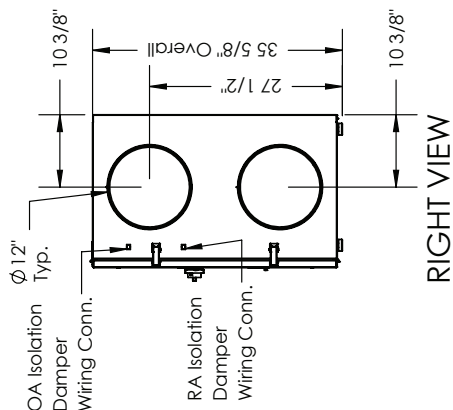
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. DAMPERS SHIPPED LOOSE; FIELD INSTALLATION REQUIRED.



LEFT VIEW

FRONT VIEW



RIGHT VIEW

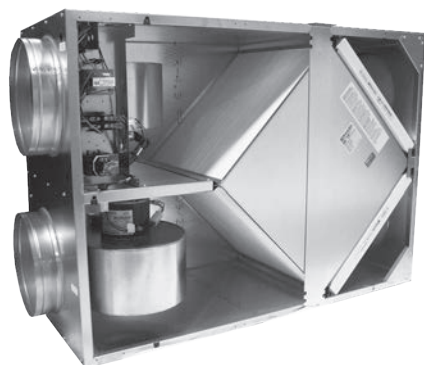
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

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





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

54 3/4" L x 23 3/4" W x 35 3/4" H
 207-278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

63" L x 30" W x 56" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
 motor packages

Options:

Fused disconnect
 Integrated programmable controls - enhanced, premium
 Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
 Low-leakage motorized isolation dampers - OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms - both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Motorized isolation damper - both airstreams
 Wall cap 12" - galvanized, paintable galvanneal
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1XINH EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

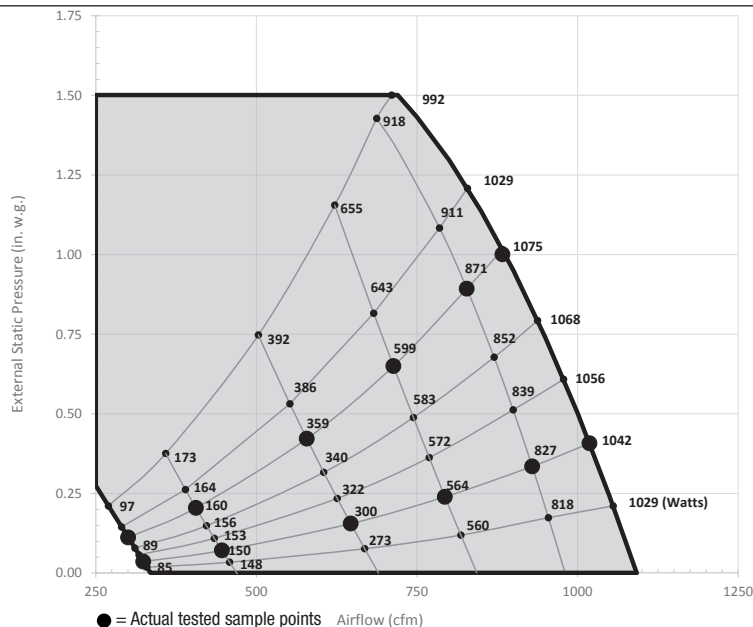
Note: Watts is for the entire unit.

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

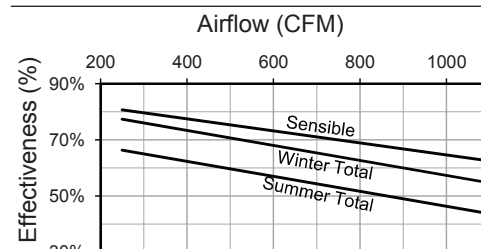
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

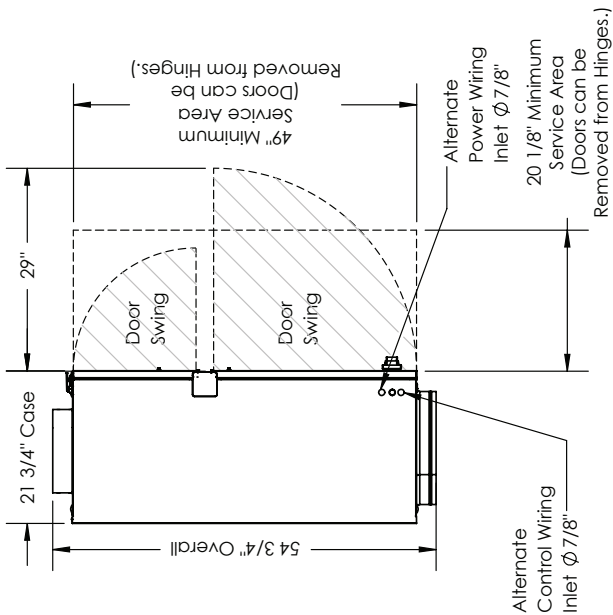
Specifications may be subject to change without notice.



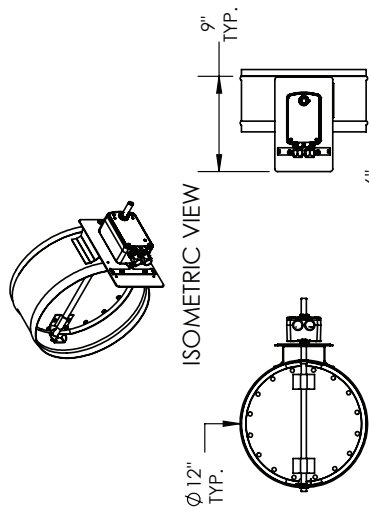
CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



TOP VIEW

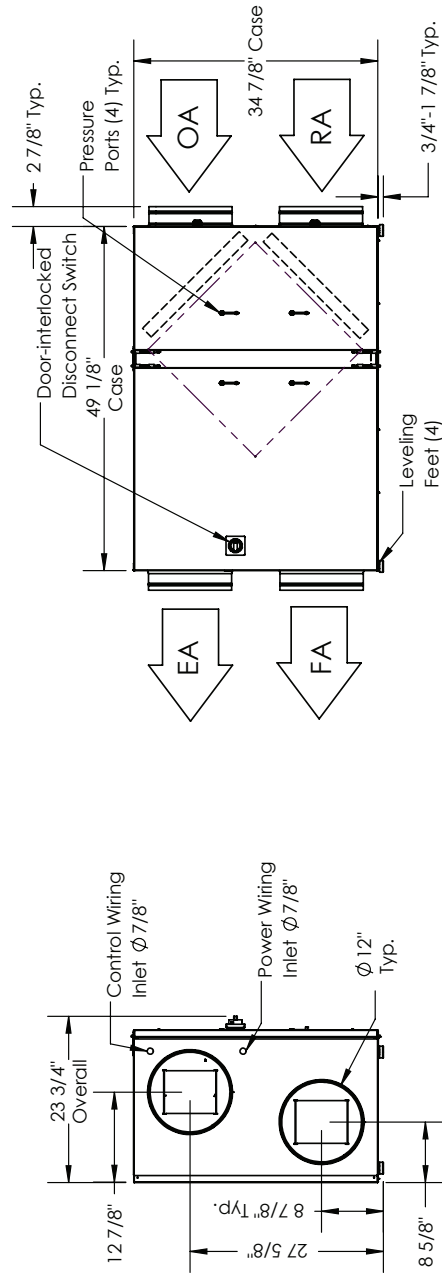


FRONT VIEW
(OA/RA) DAMPER OPTION (QTY.2)
(SHIPPED LOOSE)
SCALE 1:16

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.
3. DAMPERS SHIPPED LOOSE; FIELD INSTALLATION REQUIRED.



LEFT VIEW

FRONT VIEW

RIGHT VIEW

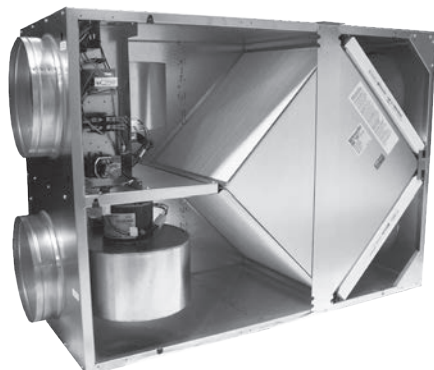
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

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





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

54 3/4" L x 23 3/4" W x 35 3/4" H
 204-275 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

63" L x 30" W x 56" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINH EC Motor submittal) -

0.5 HP, 120V/1Ph/60HZ,

0.5 HP, 208-230V/1Ph/60HZ

Independent blower control

Fused disconnect

Integrated programmable controls - enhanced, premium

Bypass economizer damper

(see bypass DIM drawing) -

dry-bulb temperature controls (standard),

enthalpy controls (option)

Low-leakage motorized isolation dampers -

OA, RA or both airstreams

Qty. 2, Factory mounted filter alarms -

both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Backdraft damper 12"

Motorized isolation damper - both airstreams

Wall cap 12" - galvanized, paintable galvanneal

Solid state speed control kit - 115V,

208-230V (1 required per motor)

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)

Smoke Detector - duct mount (SD-D)

Electric duct heater - RH series (1-11.5 kW);

EK series (1-175 kW);

designed for indoor ductwork installation only

Indirect gas-fired duct furnace - GH series

(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

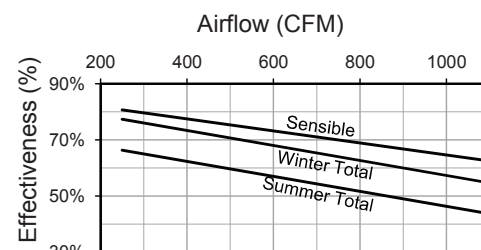
Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.5	0.75	0.9	1.25	1.5
0.75 Single Phase	970 CFM 1,490 Watts	925 CFM 1,375 Watts	860 CFM 1,270 Watts	795 CFM 1,160 Watts	750 CFM 1,090 Watts	635 CFM 950 Watts	480 CFM 825 Watts
0.75 Three Phase	970 CFM 1,246 Watts	925 CFM 1,158 Watts	860 CFM 1,039 Watts	795 CFM 928 Watts	750 CFM 856 Watts	635 CFM 691 Watts	480 CFM 509 Watts

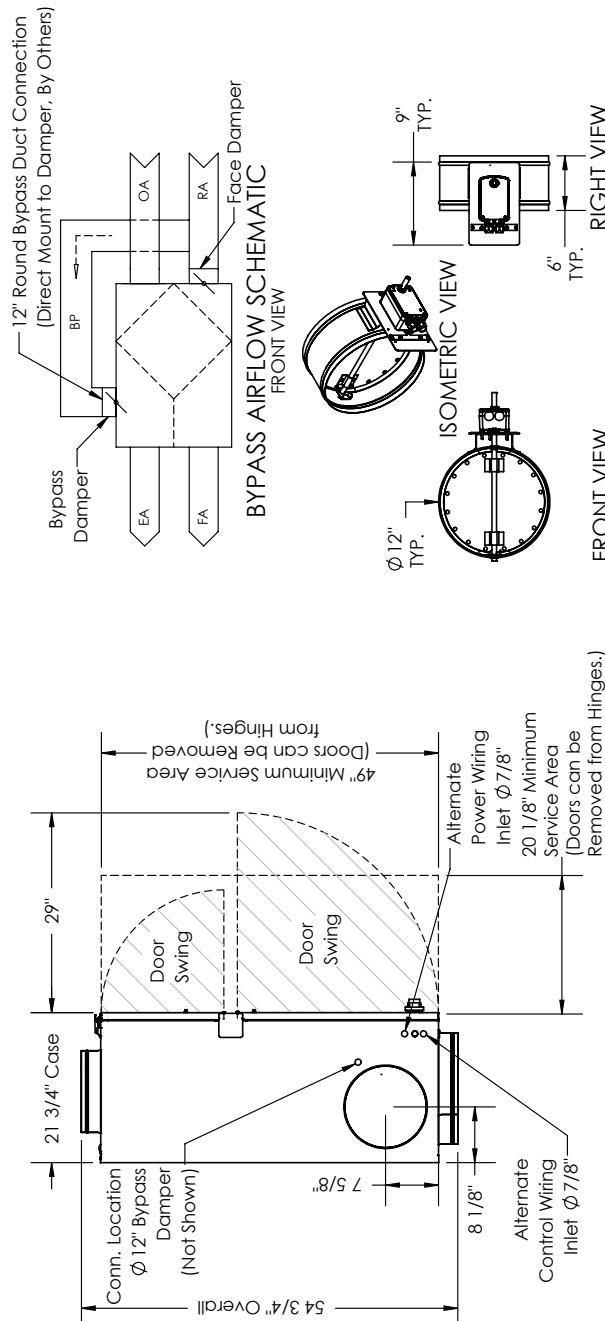
Note: Watts is for the entire unit (two motors).**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25
0.75	208-230	60	Single	4.5	10.1	15
0.75	277	60	Single	3.9	8.8	15
0.75	208-230	60	Three	1.7-2.3	5.2	15
0.75	460	60	Three	1.15	2.6	15

CORE PERFORMANCE

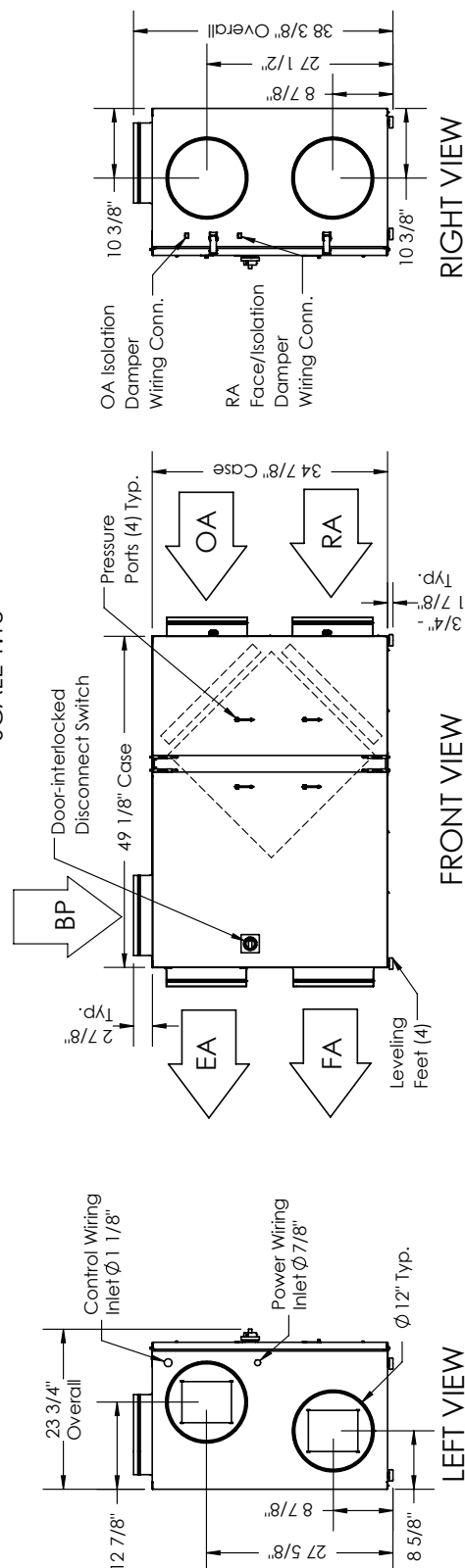
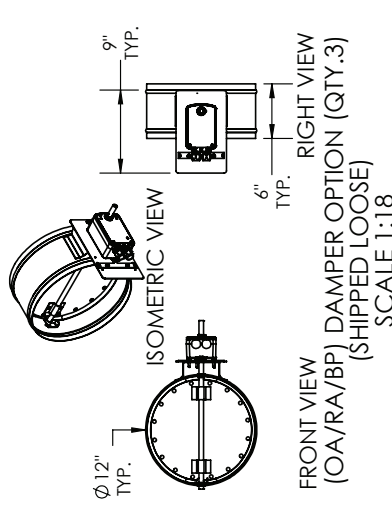
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

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.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED



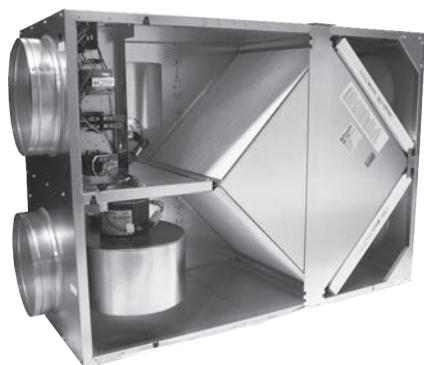
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

54 3/4" L x 23 3/4" W x 35 3/4" H
 207-278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

63" L x 30" W x 56" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
 motor packages

Options:

Fused disconnect
 Integrated programmable controls - enhanced, premium
 Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
 Low-leakage motorized isolation dampers - OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms - both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Motorized isolation damper - both airstreams
 Wall cap 12" - galvanized, paintable galvanneal
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1XINH EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

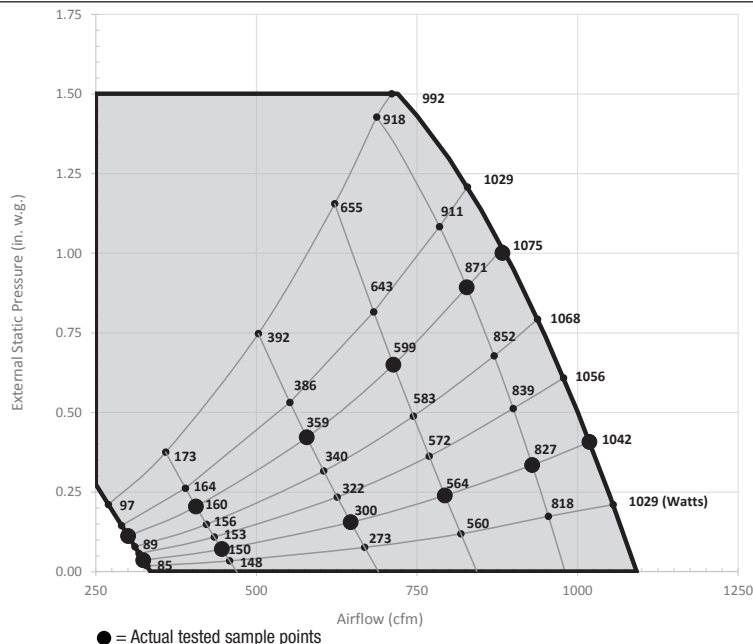
Note: Watts is for the entire unit.

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

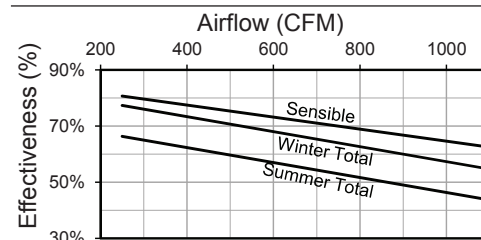
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

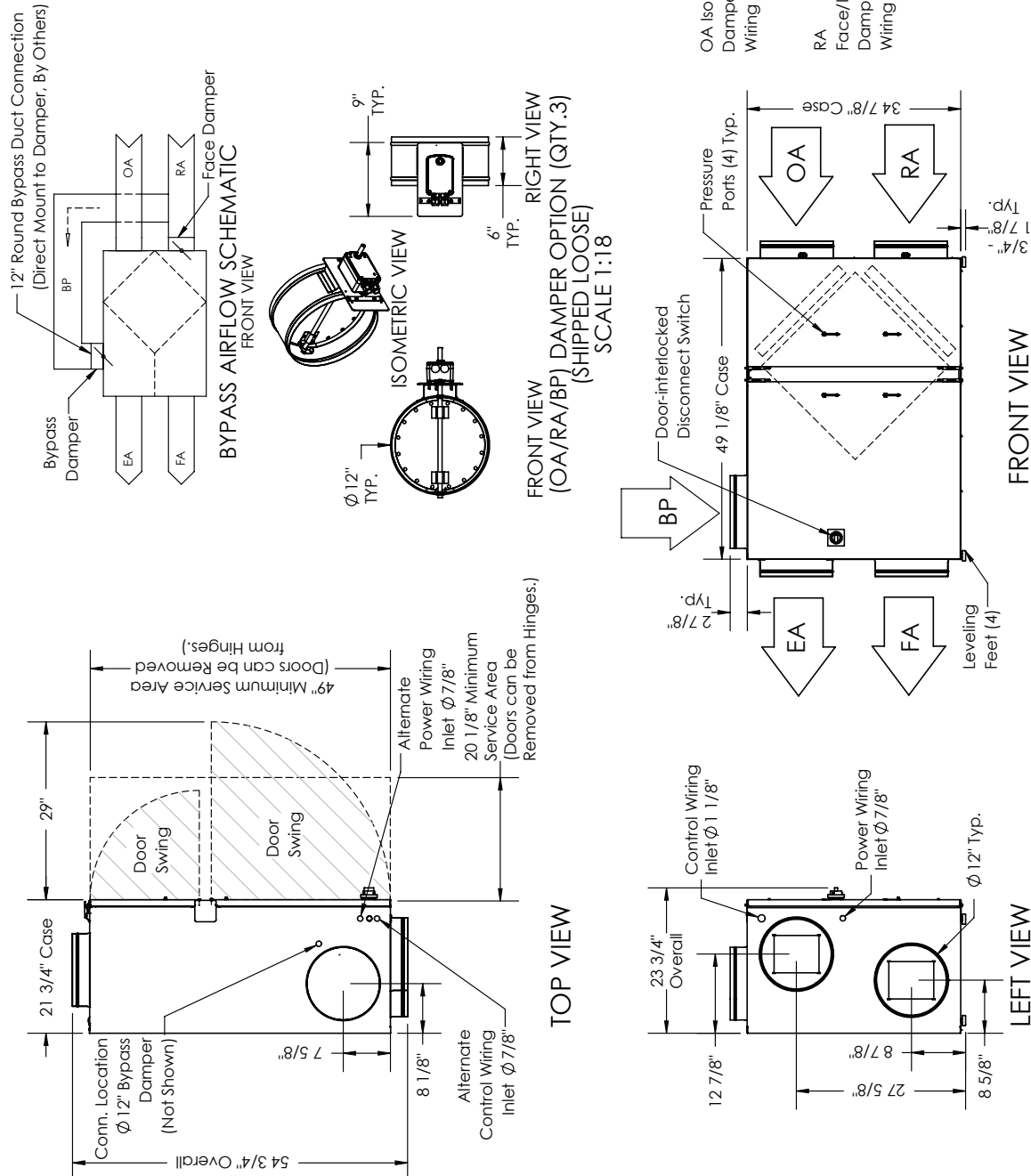
Specifications may be subject to change without notice.



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

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.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

40 1/2" L x 23 3/4" W x 50 3/4" H
 201-272 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

30" L x 42" W x 71" H
 325 lbs.
 Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors
 (see HE1XINV EC Motor submittal) -
 0.5 HP 120V/1Ph/60HZ,
 0.5 HP 208-230V/1Ph/60HZ
 Independent blower control
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Low-leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Motorized isolation damper - both airstreams
 Wall cap 12" - galvanized, paintable galvanneal
 Solid state speed control kit - 115V,
 208-230V (1 required per motor)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - RH series (1-11.5 kW);
 EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.5	0.75	0.9	1.25	1.5
0.75 Single Phase	970 CFM 1,490 Watts	925 CFM 1,375 Watts	860 CFM 1,270 Watts	795 CFM 1,160 Watts	750 CFM 1,090 Watts	635 CFM 950 Watts	480 CFM 825 Watts
0.75 Three Phase	970 CFM 1,246 Watts	925 CFM 1,158 Watts	860 CFM 1,039 Watts	795 CFM 928 Watts	750 CFM 856 Watts	635 CFM 691 Watts	480 CFM 509 Watts

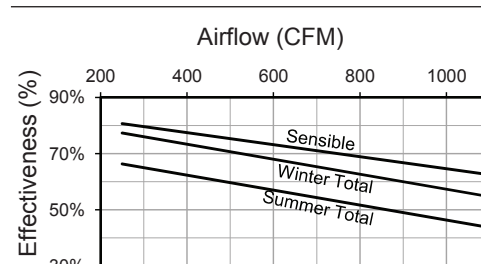
Note: Watts is for the entire unit (2 motors).

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

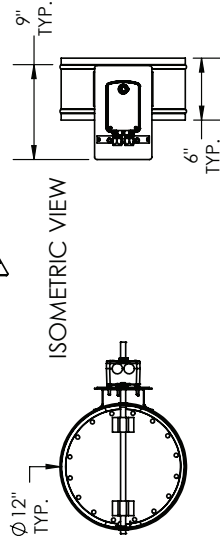
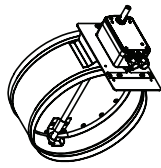
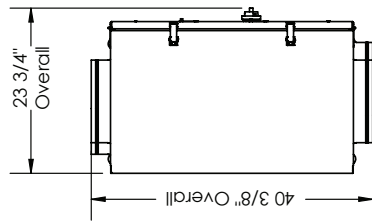
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25
0.75	208-230	60	Single	4.5	10.1	15
0.75	277	60	Single	3.9	8.8	15
0.75	208-230	60	Three	1.7-2.3	5.2	15
0.75	460	60	Three	1.15	2.6	15

CORE PERFORMANCE

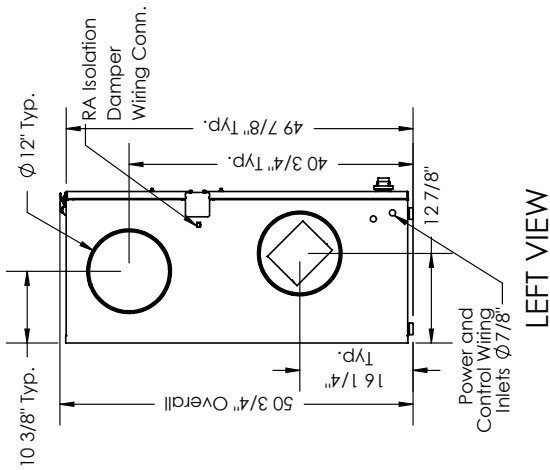


At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

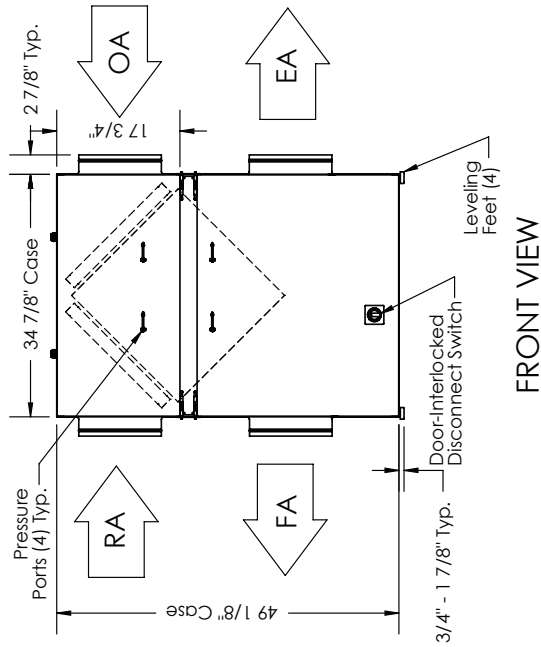


FRONT VIEW
RIGHT VIEW
(OA/RA) DAMPER OPTION (QTY. 2)
(SHIPPED LOOSE)
SCALE 1:16

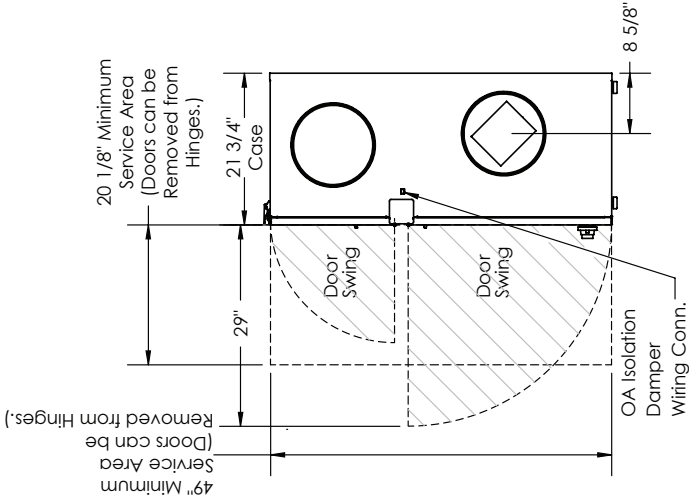
TOP VIEW



LEFT VIEW



FRONT VIEW



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.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED

AIRFLOW CONFIGURATION
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 unless certain options are selected.



HE1XINV

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

40 1/2" L x 23 3/4" W x 50 3/4" H
 204-275 lbs., varies by option(s)

Shipping Dimensions & Weight (on pallet):

30" L x 42" W x 71" H
 325 lbs.
 Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
 motor packages

Options:

Fused disconnect
 Integrated programmable controls - enhanced, premium
 Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
 Low-leakage motorized isolation dampers - OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms - both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Motorized isolation damper - both airstreams
 Wall cap 12" - galvanized, paintable galvanneal
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1XINV EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

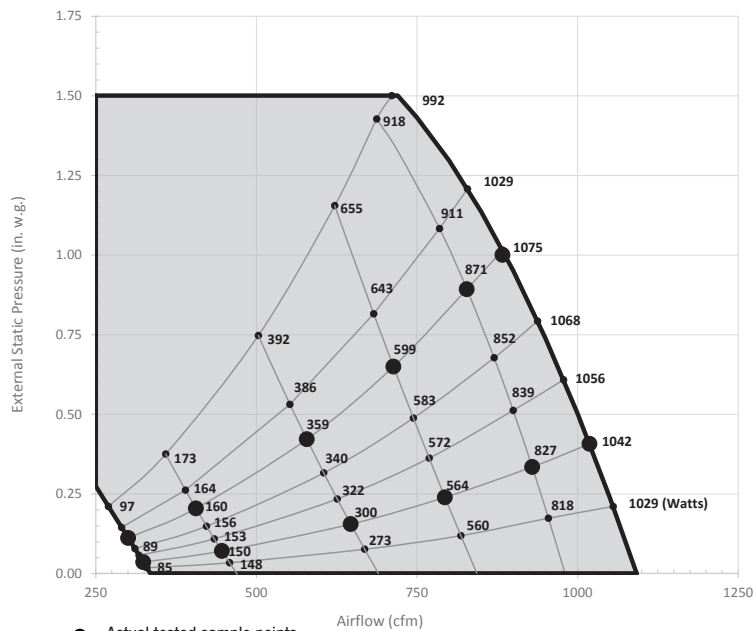
Note: Watts is for the entire unit.

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

ELECTRICAL DATA

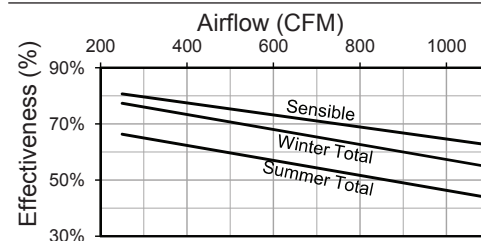
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

Specifications may be subject to change without notice.

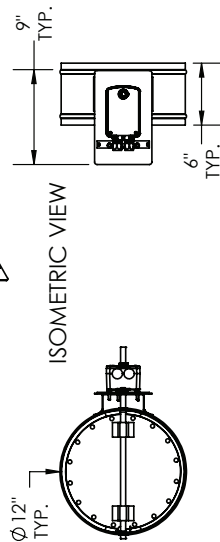
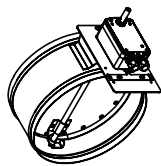
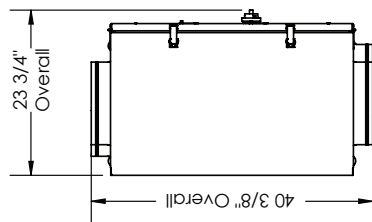


● = Actual tested sample points

CORE PERFORMANCE

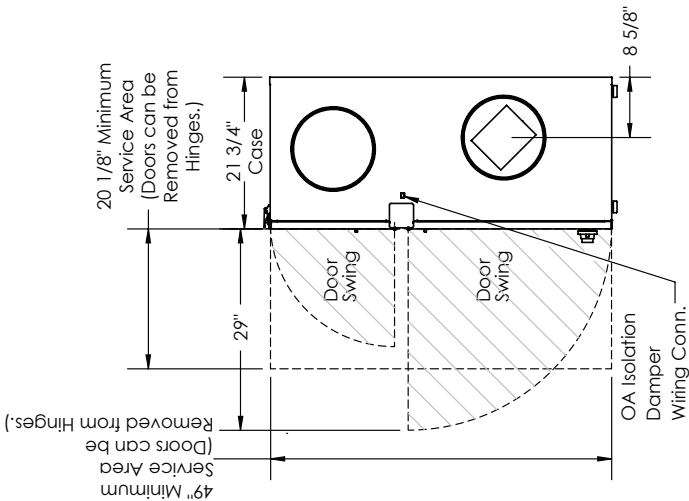


At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

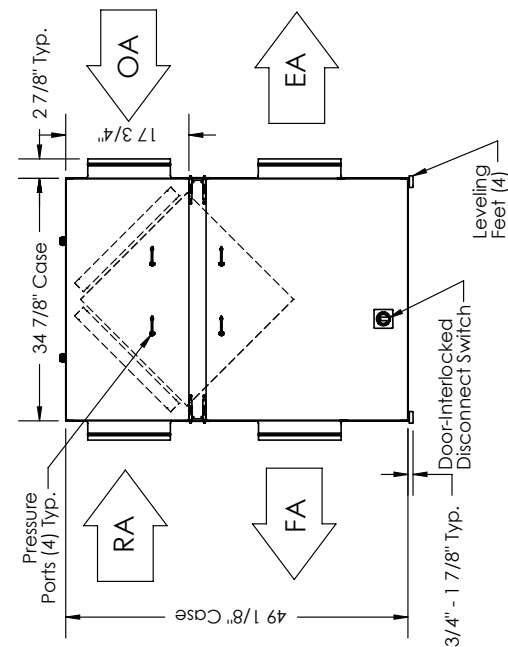


FRONT VIEW
RIGHT VIEW
(OA/RA) DAMPER OPTION (QTY. 2)
(SHIPPED LOOSE)
SCALE 1:16

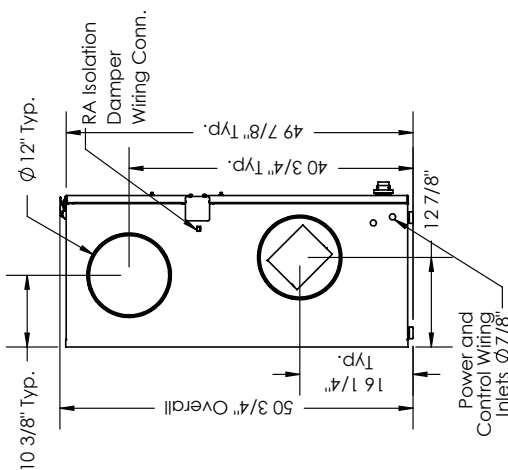
- ABBREVIATIONS**
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
- INSTALLATION ORIENTATION**
Unit may be installed in any orientation.
- NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED



RIGHT VIEW



FRONT VIEW



LEFT VIEW

AIRFLOW CONFIGURATION
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 unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect

24 VAC transformer/relay package

Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

40 1/2" L x 23 3/4" W x 50 3/4" H

201-272 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

30" L x 42" W x 71" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINV EC Motor submittal) -

0.5 HP 120V/1Ph/60HZ,

0.5 HP 208-230V/1Ph/60HZ

Independent blower control

Fused disconnect

Integrated programmable controls - enhanced, premium

Bypass economizer damper

(see bypass DIM drawing) -

dry-bulb temperature controls (standard),

enthalpy controls (option)

Low-leakage motorized isolation dampers -

OA, RA or both airstreams

Qty. 2, Factory mounted filter alarms - both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Backdraft damper 12"

Motorized isolation damper - both airstreams

Wall cap 12" - galvanized, paintable galvanneal

Solid state speed control kit - 115V,

208-230V (1 required per motor)

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)

Smoke Detector - duct mount (SD-D)

Electric duct heater - RH series (1-11.5 kW);

EK series (1-175 kW);

designed for indoor ductwork installation only

Indirect gas-fired duct furnace - GH series

(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.5	0.75	0.9	1.25	1.5
0.75 Single Phase	970 CFM 1,490 Watts	925 CFM 1,375 Watts	860 CFM 1,270 Watts	795 CFM 1,160 Watts	750 CFM 1,090 Watts	635 CFM 950 Watts	480 CFM 825 Watts
0.75 Three Phase	970 CFM 1,246 Watts	925 CFM 1,158 Watts	860 CFM 1,039 Watts	795 CFM 928 Watts	750 CFM 856 Watts	635 CFM 691 Watts	480 CFM 509 Watts

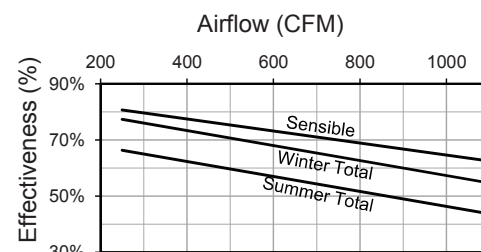
Note: Watts is for the entire unit (2 motors).

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

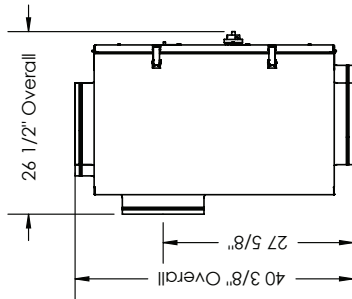
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25
0.75	208-230	60	Single	4.5	10.1	15
0.75	277	60	Single	3.9	8.8	15
0.75	208-230	60	Three	1.7-2.3	5.2	15
0.75	460	60	Three	1.15	2.6	15

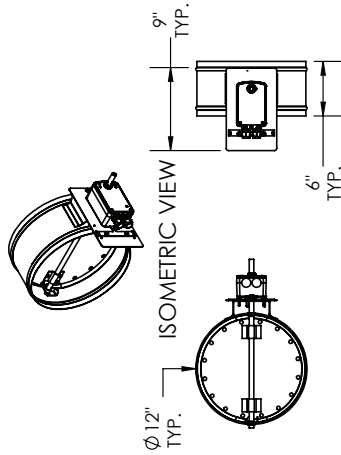
CORE PERFORMANCE



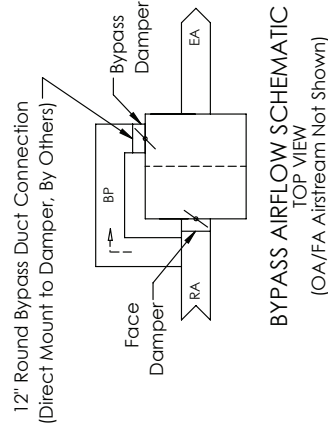
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



TOP VIEW

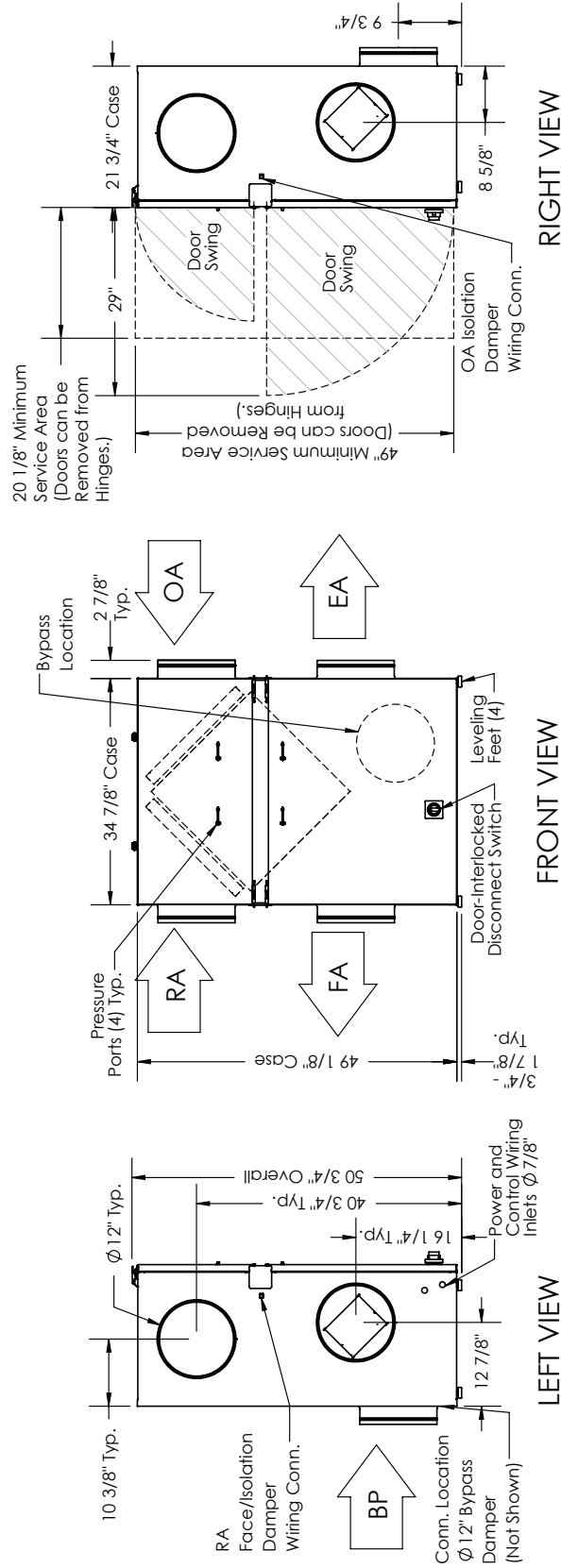


FRONT VIEW
(OA/RA/BP) DAMPER OPTION (QTY.3)
(SHIPPED LOOSE)
SCALE 1:18



BYPASS AIRFLOW SCHEMATIC
TOP VIEW
(OA/FA Airstream Not Shown)

- ABBREVIATIONS**
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake
- 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.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED



RIGHT VIEW

FRONT VIEW

LEFT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

40 1/2" L x 23 3/4" W x 50 3/4" H
204-275 lbs., varies by option(s)

Shipping Dimensions & Weight (on pallet):

30" L x 42" W x 71" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
motor packages

Options:

Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Low-leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
Backdraft damper 12"
Motorized isolation damper - both airstreams
Wall cap 12" - galvanized, paintable galvanneal
Potentiometer speed control - remote installed
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1XINV EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

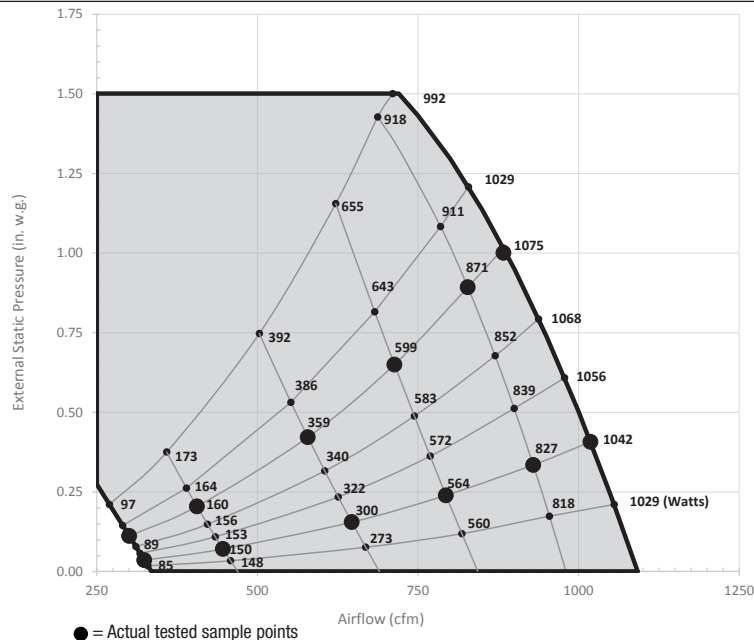
Note: Watts is for the entire unit.

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

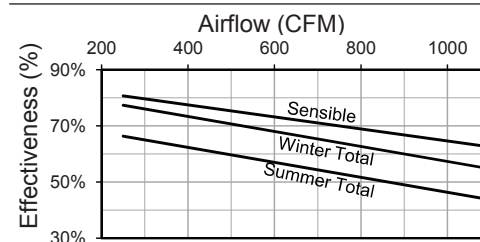
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

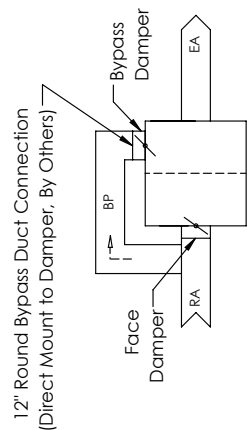
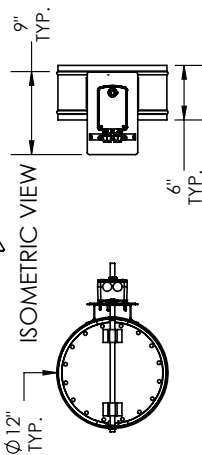
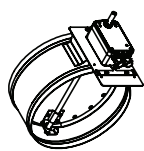
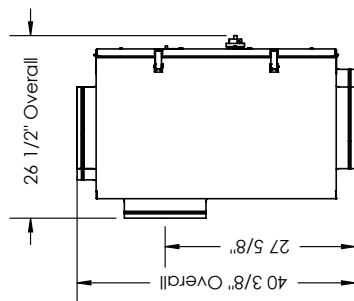
Specifications may be subject to change without notice.



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



FRONT VIEW RIGHT VIEW
(OA/RA/BP) DAMPER OPTION (QTY.3)
(SHIPPED LOOSE)

TOP VIEW

BYPASS AIRFLOW SCHEMATIC
TOP VIEW
(OA/FA Airstream Not Shown)

ABBREVIATIONS

EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION

Unit may be installed in any orientation.

NOTE

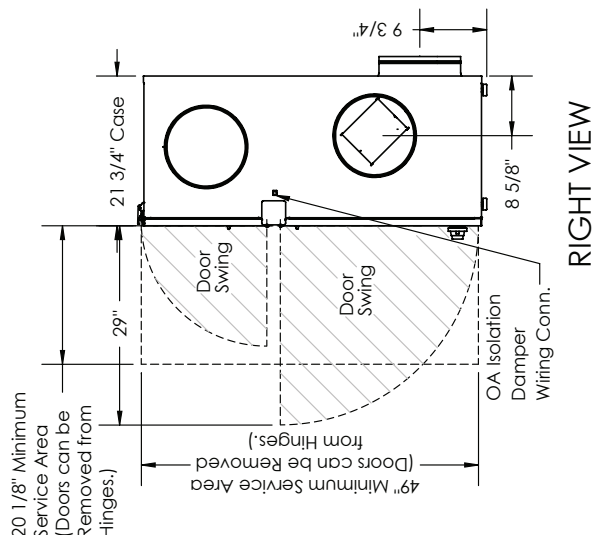
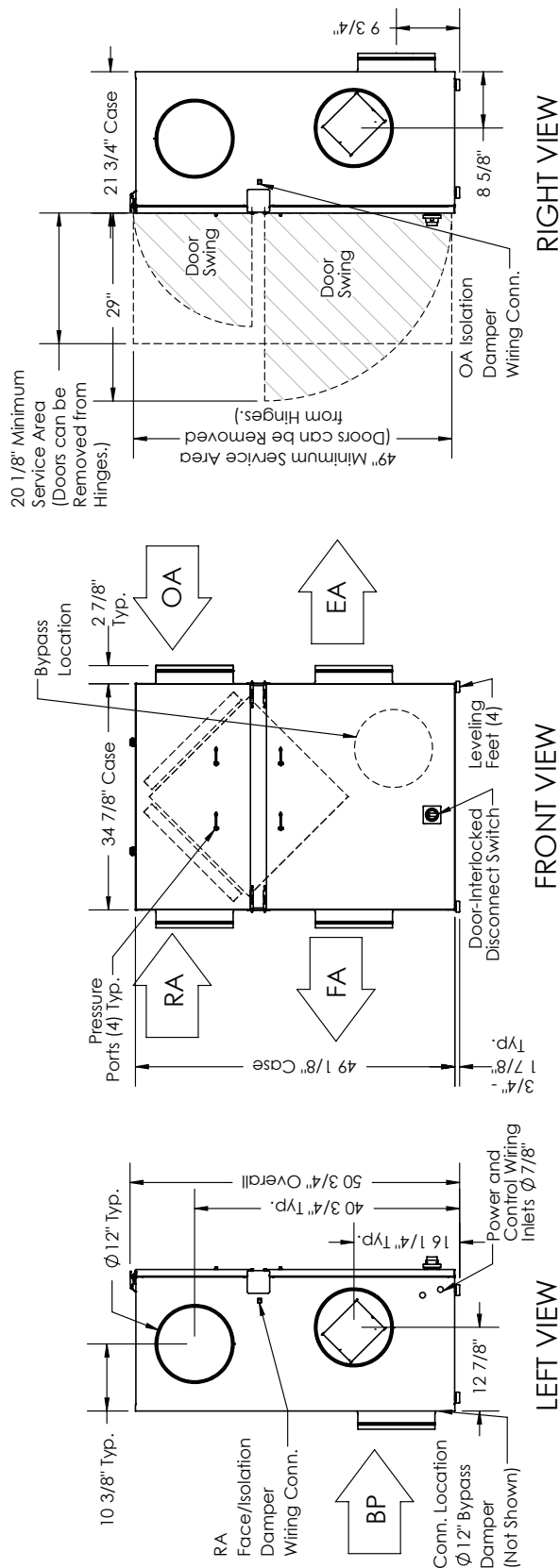
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).

4. FOR INSTALLATION DETAILS, REFER TO I/O MANUAL SUPPLEMENT FOR BYPASS.

5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED



AIRFLOW CONFIGURATION

Available as shown in dimension drawing.



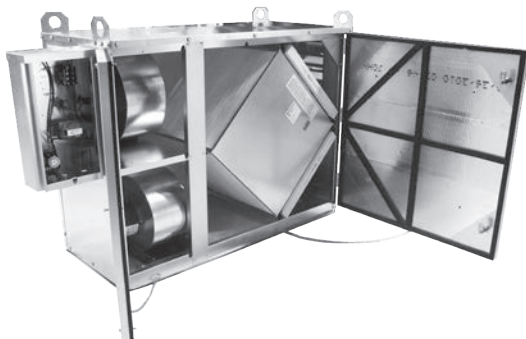
UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. Airstreams can not be switched.





ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-870 CFM**AHRI 1060 Certified Core:** One L125-G5**Standard Features:**

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

81" L x 40 1/4" W x 44" H
 243-346 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 50" H
 441 lbs.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard
 motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors
 (see HE1XRT EC Motor submittal) -
 0.5 HP 120V/1Ph/60HZ,
 0.5 HP 208-230V/1Ph/60HZ
 Independent blower control
 Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Solid state speed control kit - 115V,
 208-230V (1 required per motor)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Trane RTU
 Engineered combo curb for Carrier RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)					
	0.0	0.5	1.0	1.25	1.45	1.75
0.75 Single Phase	950 CFM 1,630 Watts	820 CFM 1,475 Watts	730 CFM 1,385 Watts	650 CFM 1,300 Watts	560 CFM 1,220 Watts	250 CFM 1,080 Watts
0.75 Three Phase	950 CFM 1,430 Watts	820 CFM 1,255 Watts	730 CFM 1,155 Watts	650 CFM 1,060 Watts	560 CFM 955 Watts	250 CFM 685 Watts

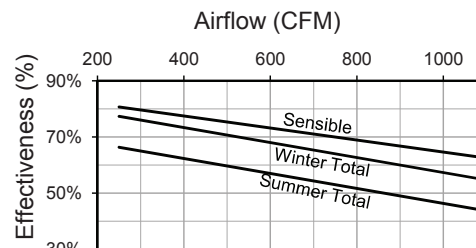
Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25			
0.75	208-230	60	Single	4.5	10.1	15			
0.75	277	60	Single	3.9	8.8	15			
0.75	208-230	60	Three	1.7-2.3	5.2	15	1.7-2.3	5.7	15
0.75	460	60	Three	1.15	2.6	15	1.15	2.8	15

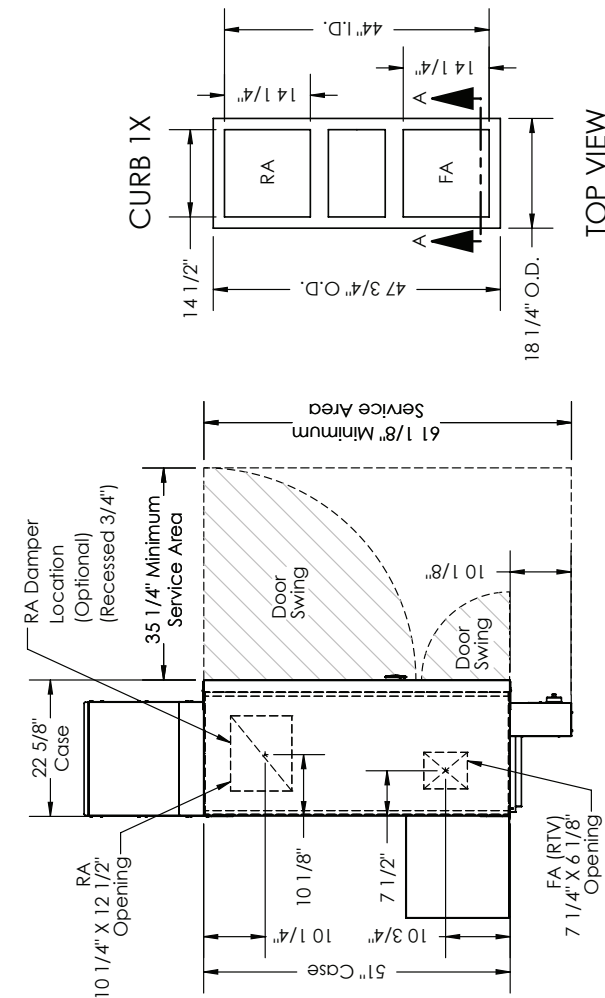
CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

HE1XRT (RTV/RTR) Energy Recovery Ventilator Standard



TOP VIEW

TOP VIEW

ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RTV: Rooftop Vertical RA & FA
RTR: Rooftop Vertical RA Only

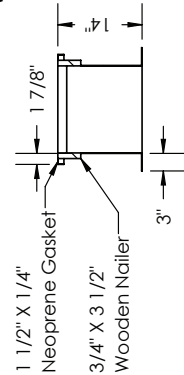
INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

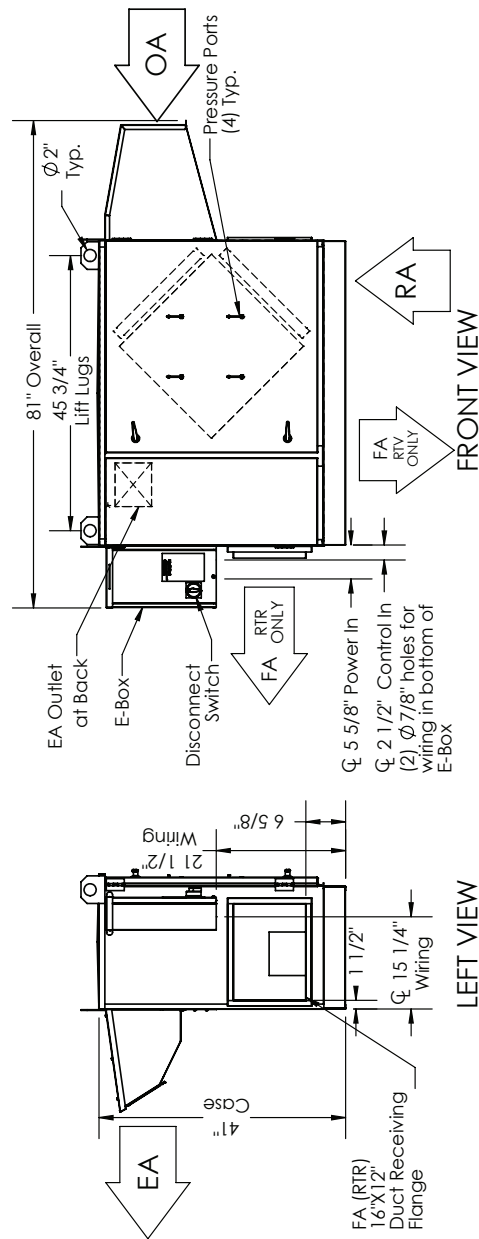
NOTE:

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

CURB CROSS-SECTION A-A (TYP.)



SECTION A-A



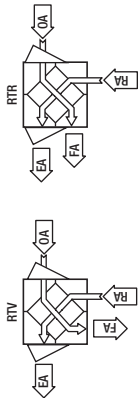
LEFT VIEW

FRONT VIEW

RIGHT VIEW

AIRFLOW CONFIGURATION

Available as shown:

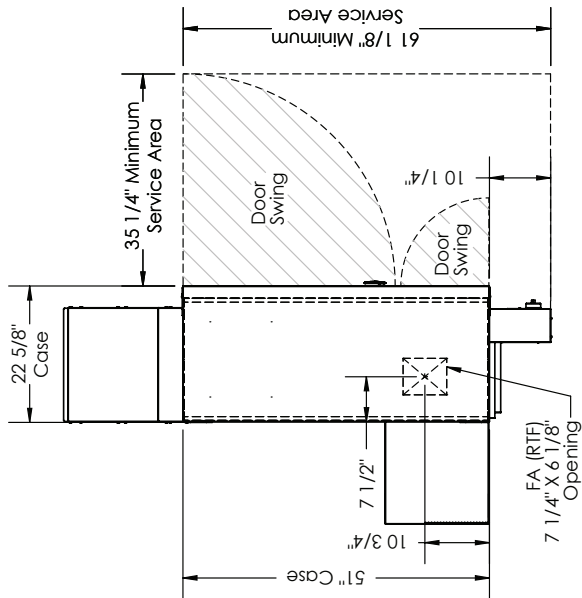


UNIT MOUNTING & APPLICATION

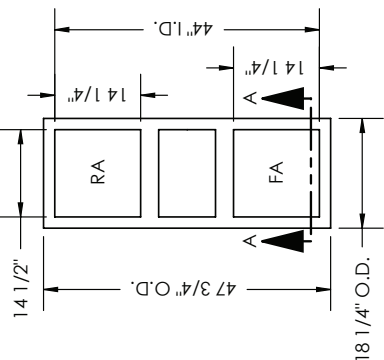
Must be mounted as shown. Airstreams can not be switched.



HE1XRT (RTH/RTF) Energy Recovery Ventilator Standard

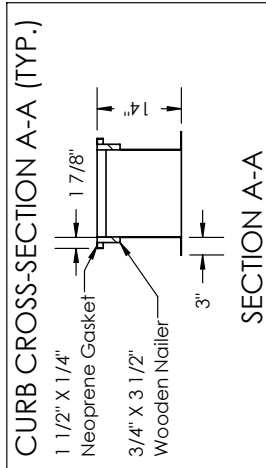


CURB 1X

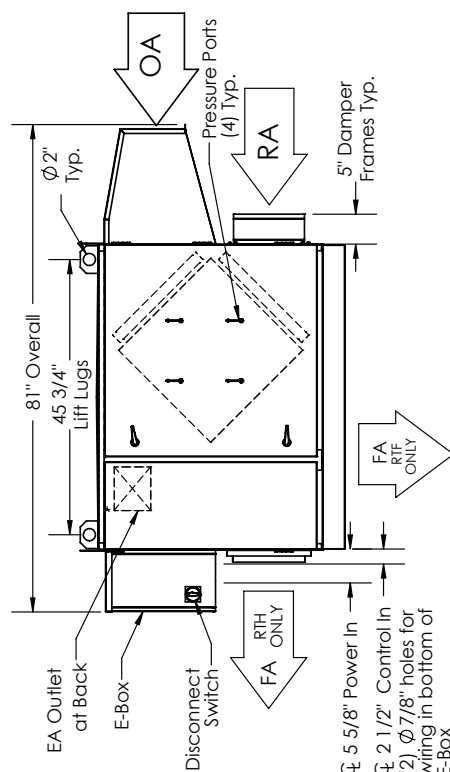


TOP VIEW

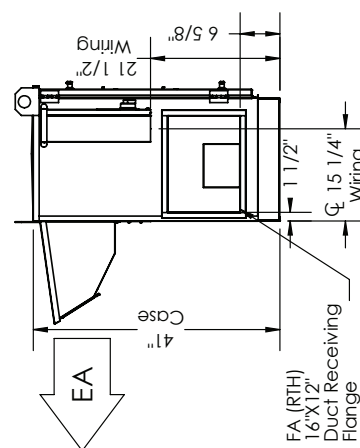
TOP VIEW



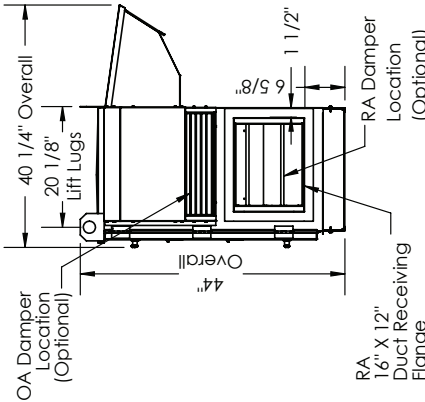
SECTION A-A



FRONT VIEW



LEFT VIEW

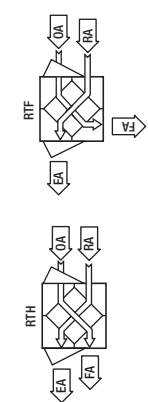


RIGHT VIEW

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



AIRFLOW CONFIGURATION
Available as shown:

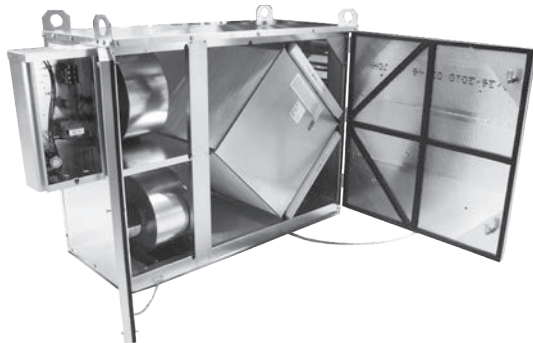


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HE1XRT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

81" L x 40 1/4" W x 42 1/4" H
 246-366 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 50" H
 458 lbs.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

Options:

Fused disconnect
 Integrated programmable controls - enhanced, premium
 Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms - both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper 12"
 Potentiometer speed control - remote installed
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Trane RTU
 Engineered combo curb for Carrier RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW); designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

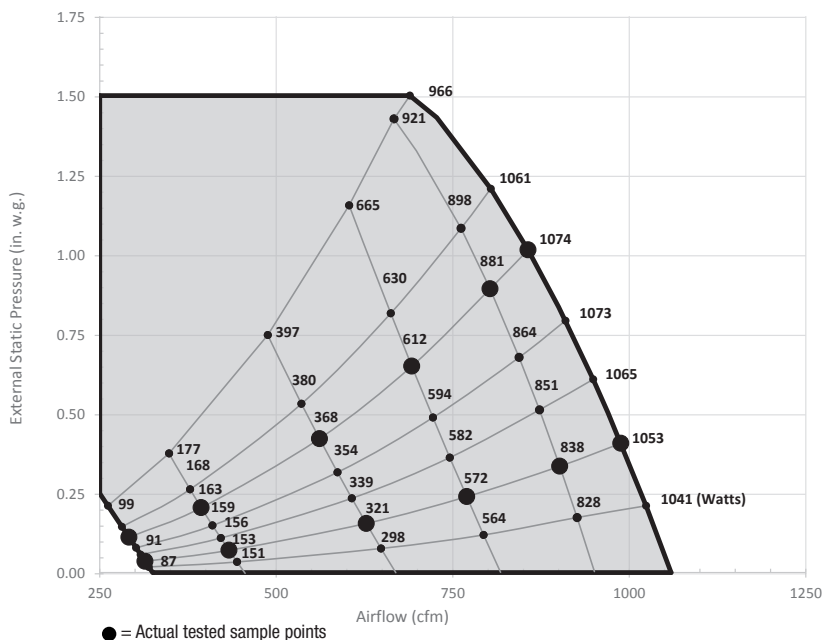
HE1XRT EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
314	0.04	88
433	0.07	153
627	0.15	321
770	0.24	572
901	0.33	838
988	0.41	1053
291	0.11	93
394	0.20	163
561	0.42	368
692	0.65	612
803	0.89	881
857	1.01	1074

Note: Watts is for the entire unit.

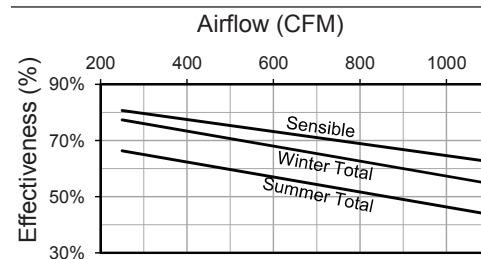
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

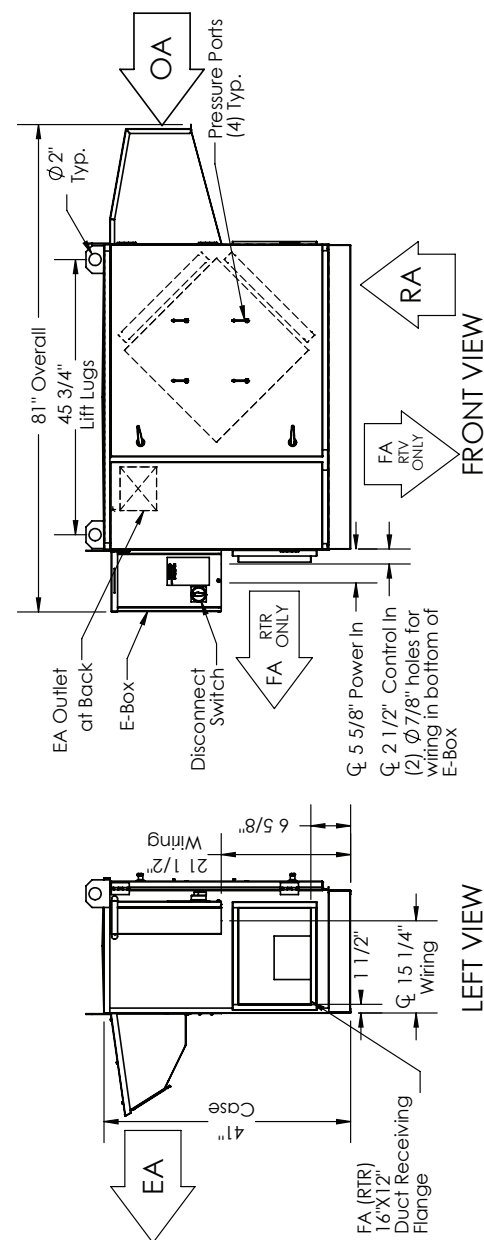
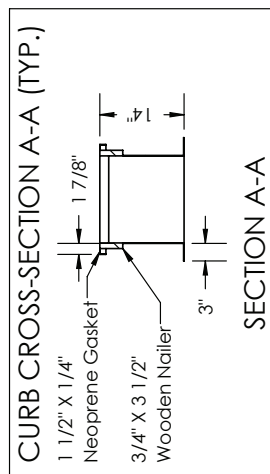
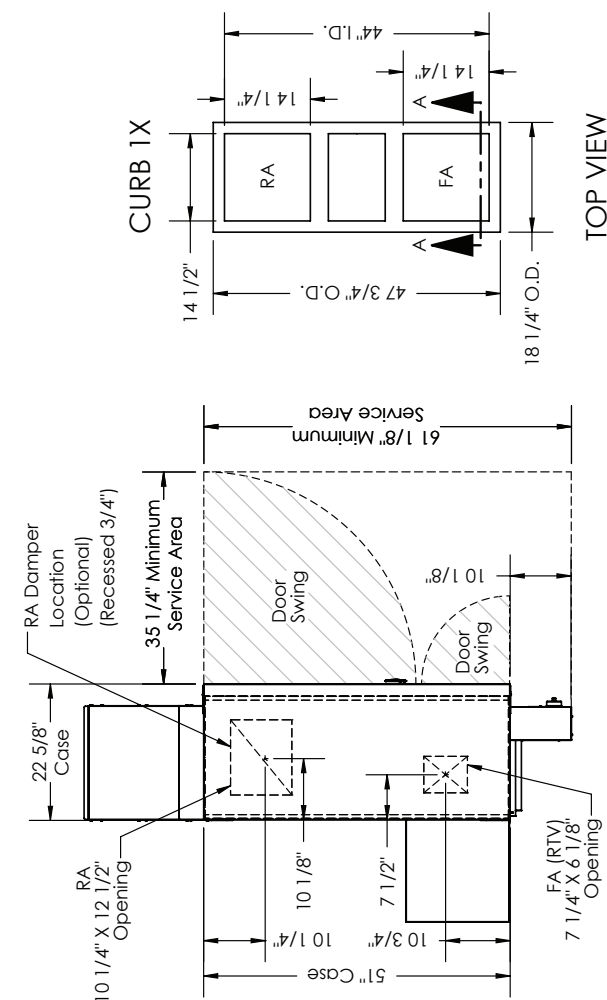


CORE PERFORMANCE



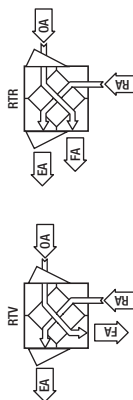
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.



AIRFLOW CONFIGURATION

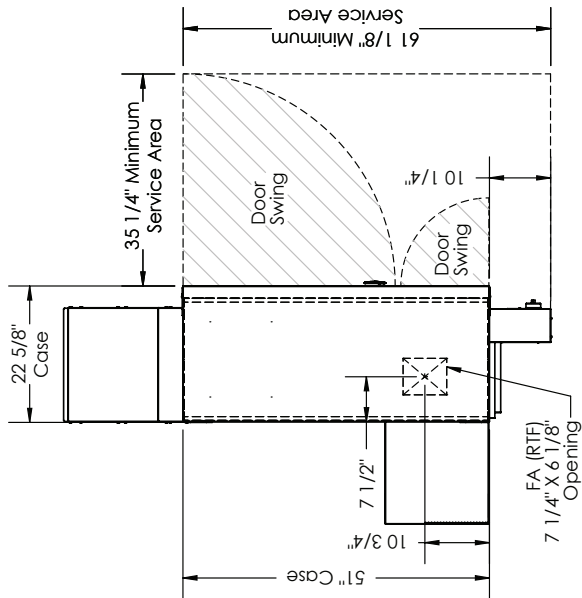
Available as shown:



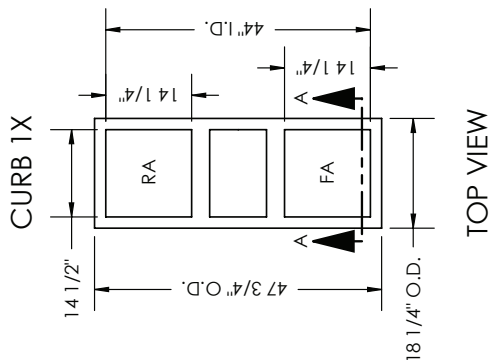
UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



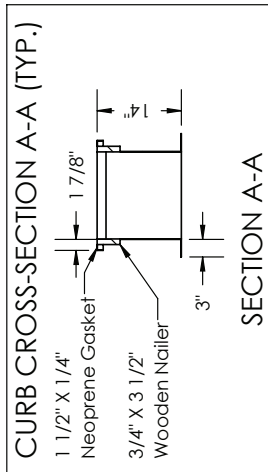
HE1XRT (RTH/RTF) Energy Recovery Ventilator EC Motor Option



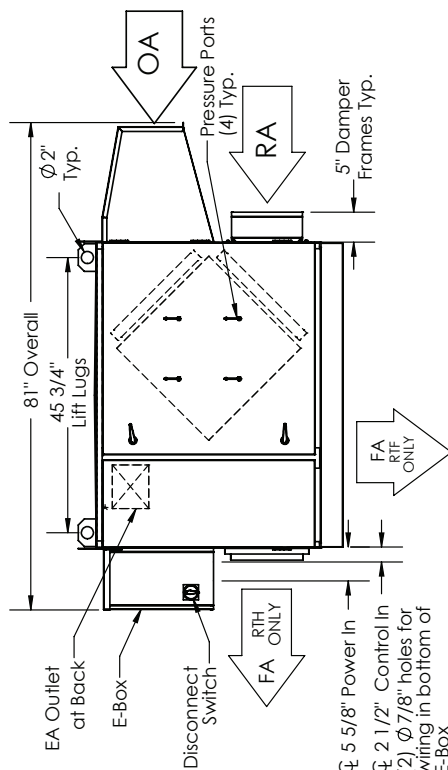
TOP VIEW



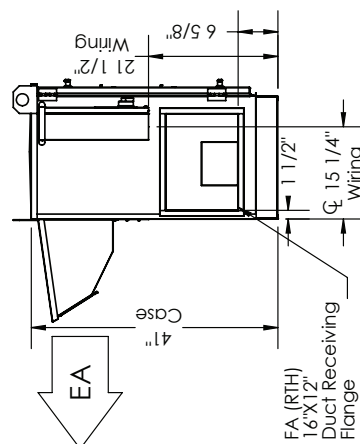
TOP VIEW



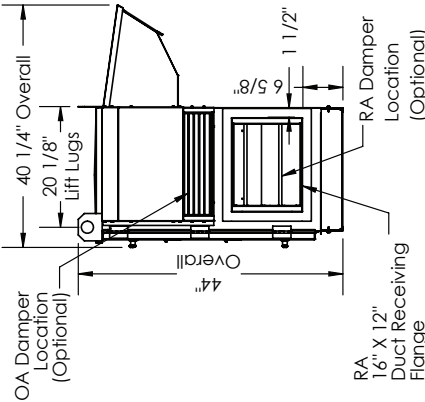
SECTION A-A



FRONT VIEW



LEFT VIEW



RIGHT VIEW

ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RTF: Rooftop Vertical FA Only
RTH: Rooftop Horizontal RA & FA

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

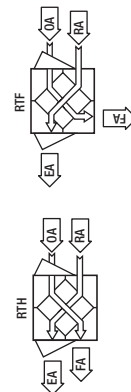
NOTE:

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



AIRFLOW CONFIGURATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.

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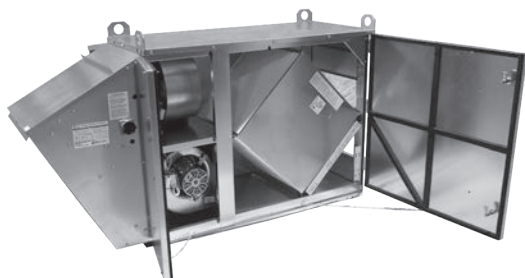


HE1XRTC

Energy Recovery Ventilator Standard



ROOFTOP UNIT Direct Connect



Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-900 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

73 1/4" L x 40 1/4" W x 50" H
269-356 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 50" H
450 lbs.

Motor(s):

Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:

Qty. 2, Variable Speed/ECM - Direct Drive Motors -
(see HE1XRTC EC Motor submittal) -
0.5 HP 120V/1Ph/60HZ,
0.5 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls -
enhanced, premium
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
Solid state speed control kit - 115V,
208-230V (1 required per motor)
RTC transition kit - for vertical RTU, for horizontal RTU
Rooftop RTC transition paint - white, custom colors
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)
Smoke Detector - duct mount (SD-D)

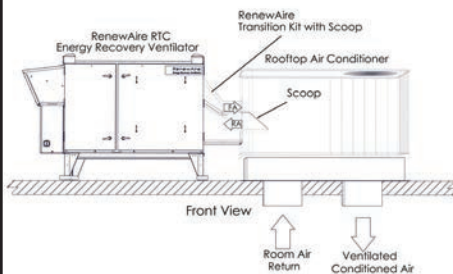
AIRFLOW PERFORMANCE

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

Damper Position	Total Watts		Tie-In Directly to Rooftop A/C Unit						Unit Ducted Independently							
			Static Pressure in Adjacent Air Handler (Inches Water Column)						External Static Pressure (Inches Water Column)							
	1 Phase	3 Phase	-0.75		-0.5		-0.25		0.0		+0.25		+0.5		+0.75	
			EA	FA	EA	FA	EA	FA	EA	FA	EA	FA	EA	FA	EA	FA
100% Open	1,295	1,135	735	1035	865	990	920	945	975	890	920	845	865	790	735	605
65% Open	1,285	1,088	715	995	825	950	880	905	935	855	880	805	825	760	715	605
55% Open	1,275	1,074	715	980	815	935	870	890	925	845	870	795	815	755	715	615
45% Open	1,265	1,030	680	940	790	895	840	850	895	810	840	760	790	720	680	570
35% Open	1,265	951	630	865	745	825	795	785	850	745	795	700	745	665	630	515
25% Open	1,265	866	570	795	700	755	750	715	800	680	750	640	700	605	570	440
15% Open	1,260	774	510	725	655	685	705	645	750	615	705	580	655	545	510	365

Note: Watts is for the entire unit (2 motors).

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



Installation Details - Applicable to all RTC units

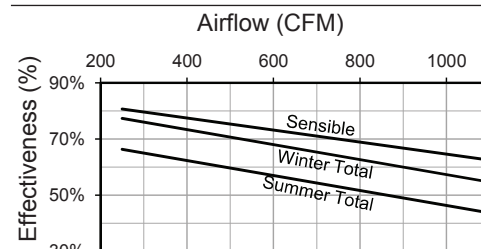
Refer to IOM for more details.

ELECTRICAL DATA

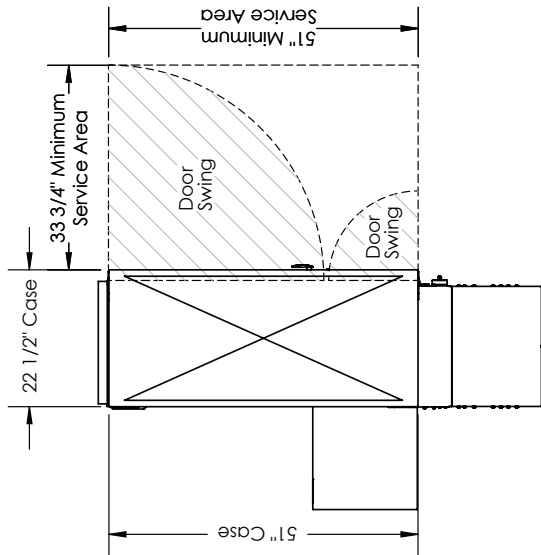
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.75	120	60	Single	9.0	20.3	25
0.75	208-230	60	Single	4.5	10.1	15
0.75	277	60	Single	3.9	8.8	15
0.75	208-230	60	Three	1.7-2.3	5.2	15
0.75	460	60	Three	1.15	2.6	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

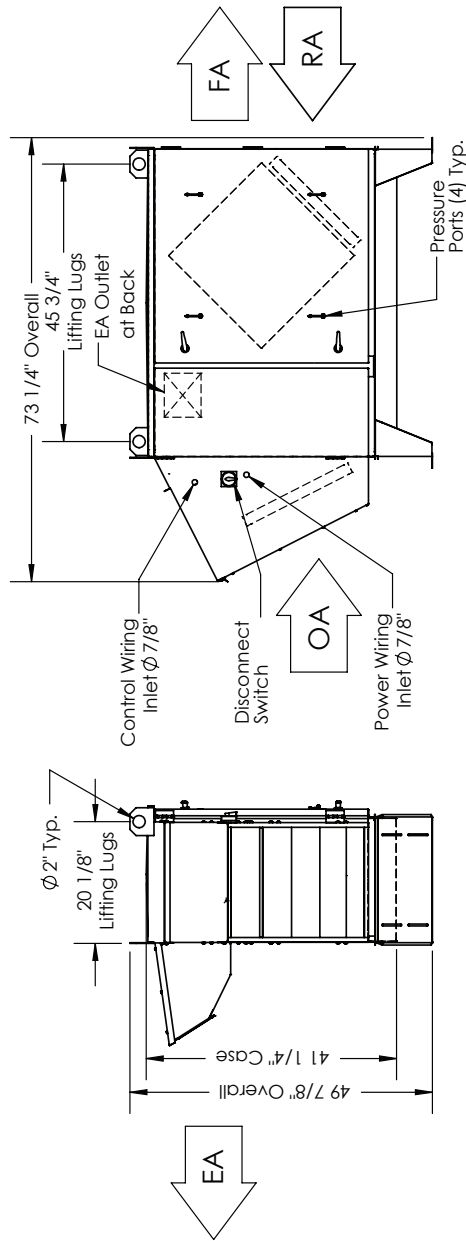


ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

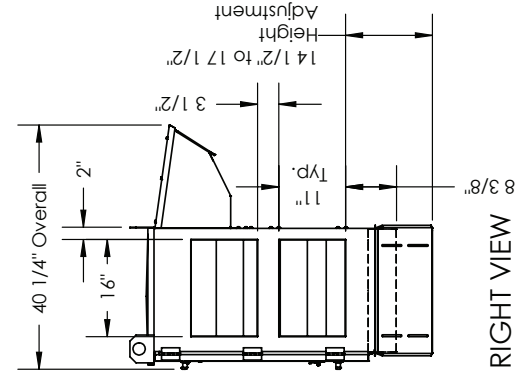
INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

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



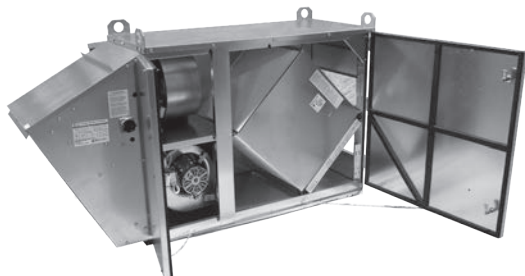
RIGHT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.

HE 1XRTC

ROOFTOP UNIT Direct Connect



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-1,100 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 2, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

73 1/4" L x 40 1/4" W x 50" H
272-358 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 50" H
450 lbs.

Motor(s):

Qty. 2, 0.5 HP, Direct drive EC blower/
motor packages

Options:

Fused disconnect
Integrated programmable controls -
enhanced, premium
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

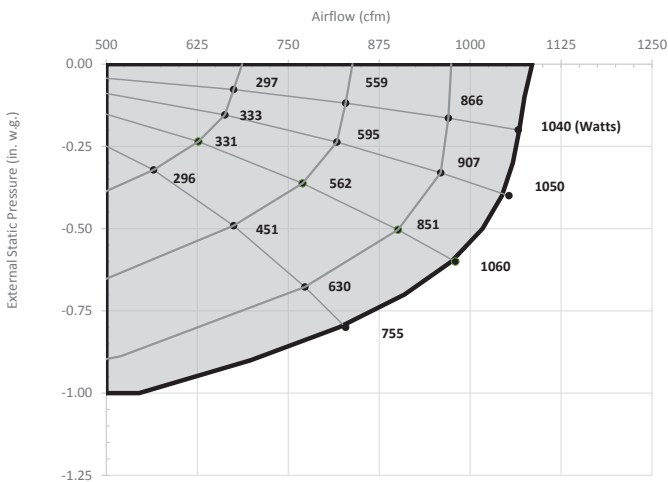
Accessories:

Filters - MERV 13, 2" (shipped loose)
RTC transition kit - for vertical RTU, for horizontal RTU
Rooftop RTC transition paint - white, custom colors
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)
Smoke Detector - duct mount (SD-D)

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

EC MOTOR OPTION OPERATING RANGE

Tie-In Directly to Rooftop A/C Unit*



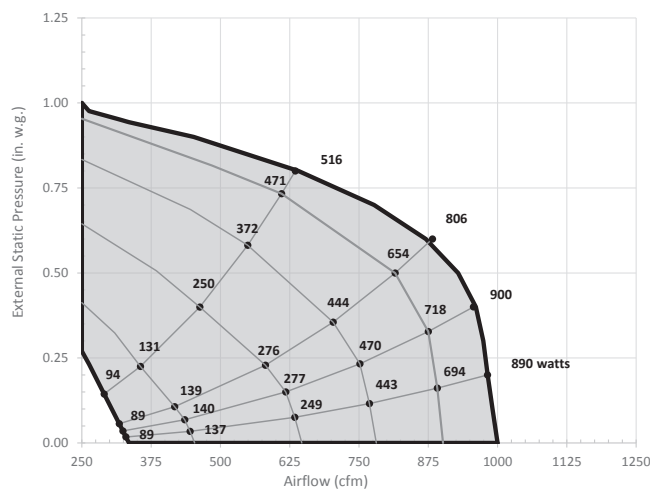
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

● = Actual tested sample points

* See page 38 for installation details.

EC MOTOR OPTION OPERATING RANGE

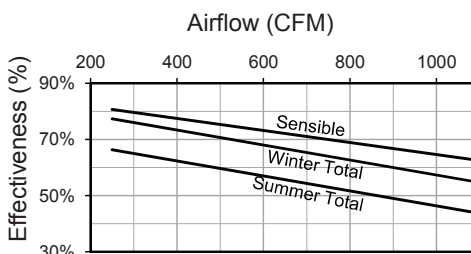
Unit Ducted Independently*



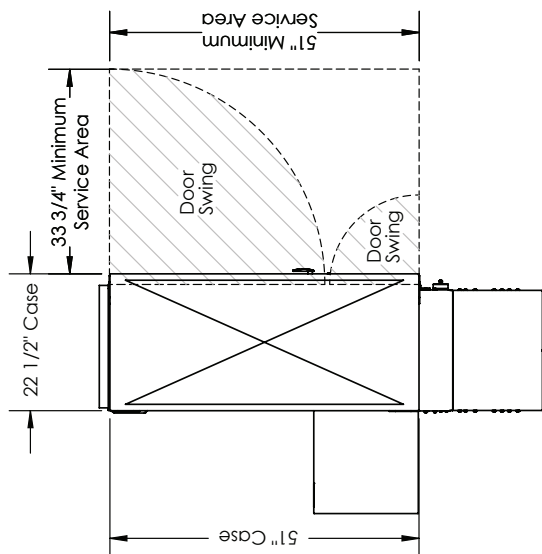
ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15

CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



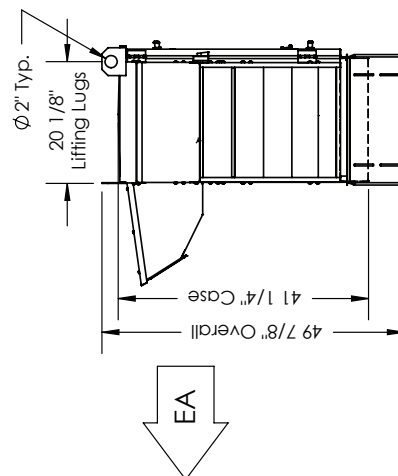
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

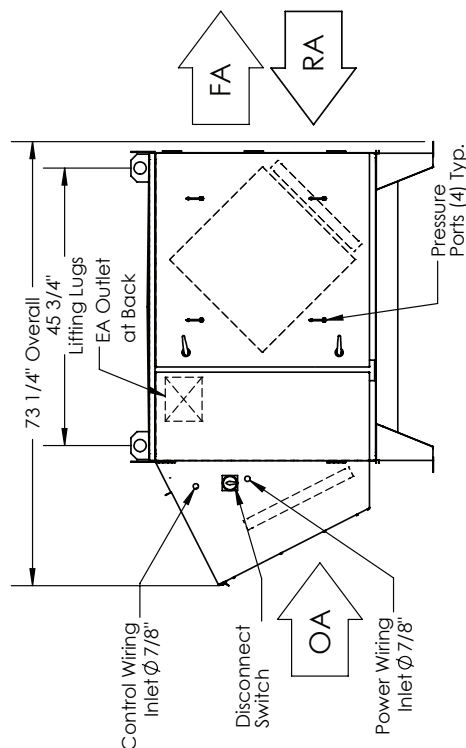
NOTE

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

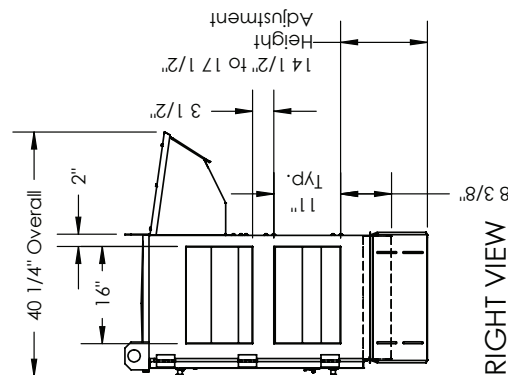
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



HE 1.5XINH

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range:

375–1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total Qty. 4, MERV 8: (2) 14" x 20" x 2" and
(2) 16" x 20" x 2"

Unit Dimensions & Weight:

48 3/4" L x 34 1/2" W x 53 3/4" H
337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 53" H
571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive standard motorized
impeller packages

Options:

Qty. 2, Variable Speed/ECM - Direct drive motors
(see HE1.5XINH EC Motor submittal) -
1.0 HP 120V/1Ph/60HZ,
1.0 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2" (shipped loose)
Backdraft damper - OA or EA
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.50	0.75	1.00	1.25	1.50
1.0 Single Phase	1,575 CFM 1,545 Watts	1,470 CFM 1,525 Watts	1,350 CFM 1,500 Watts	1,225 CFM 1,475 Watts	1,090 CFM 1,435 Watts	950 CFM 1,380 Watts	795 CFM 1,300 Watts
1.0 Three Phase	1,675 CFM 1,410 Watts	1,570 CFM 1,400 Watts	1,435 CFM 1,380 Watts	1,280 CFM 1,340 Watts	1,115 CFM 1,280 Watts	940 CFM 1,210 Watts	760 CFM 1,135 Watts

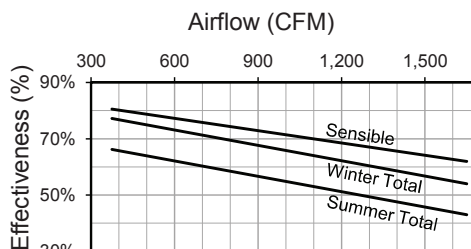
Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

HP	V	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	6.5	14.6	20
1.0	208-230	60	Single	3.3-3.4	7.7	15
1.0	277	60	Single	2.7	6.1	15
1.0	208-230	60	Three	2.2-2.2	5.0	15
1.0	460	60	Three	1.1	2.5	15

CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

HE1.5XINH Energy Recovery Ventilator Standard

ABBREVIATIONS

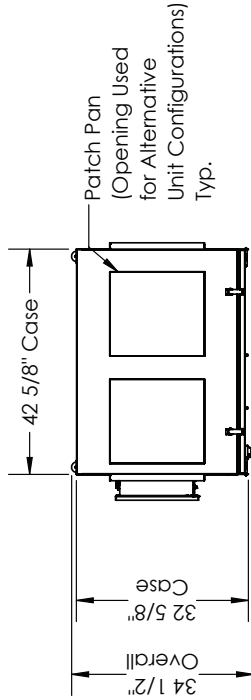
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

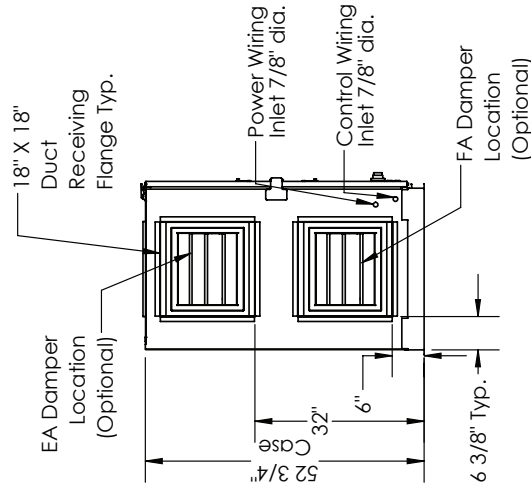
Unit may be installed in any orientation.

NOTE

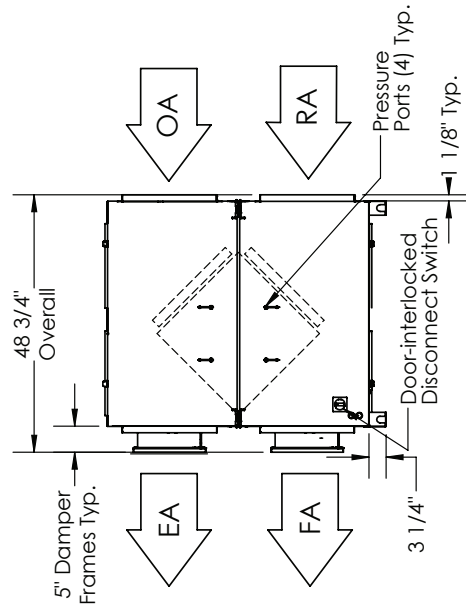
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



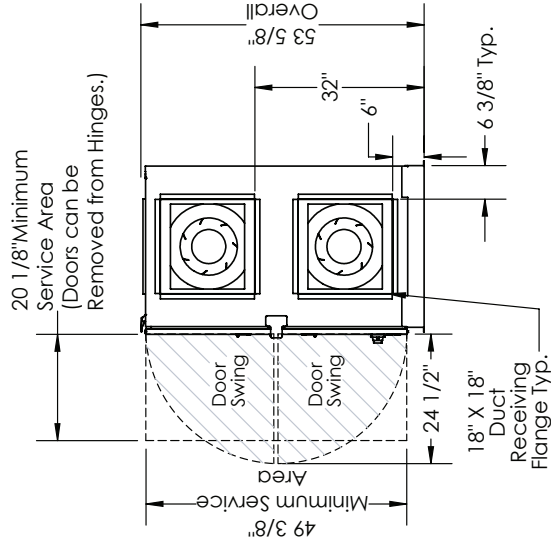
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
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 unless certain options are selected. Duct configuration is field convertible.



HE 1.5X1NH

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

48 3/4" L x 34 1/2" W x 53 3/4" H
 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 53" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

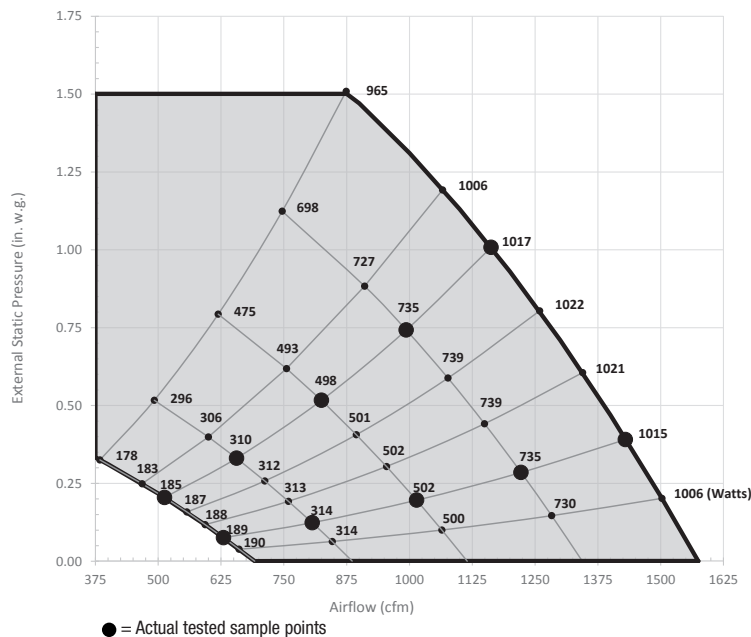
HE1.5X1NH EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
630	0.07	189
807	0.12	314
1014	0.20	502
1222	0.28	735
1430	0.39	1015
513	0.20	185
656	0.33	310
825	0.52	498
994	0.74	735
1163	1.01	1017

Note: Watts is for the entire unit.

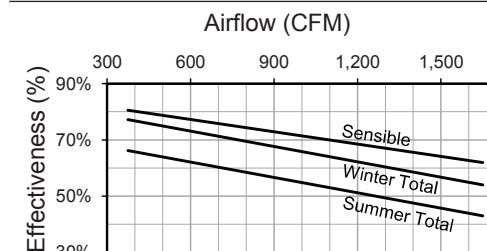
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

ABBREVIATIONS

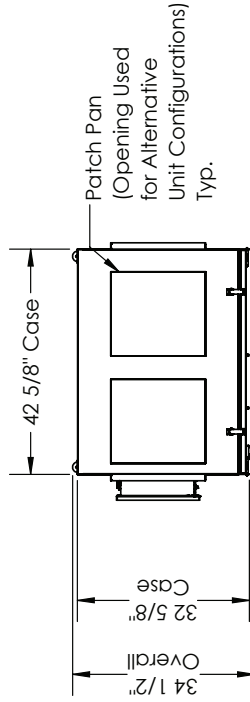
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

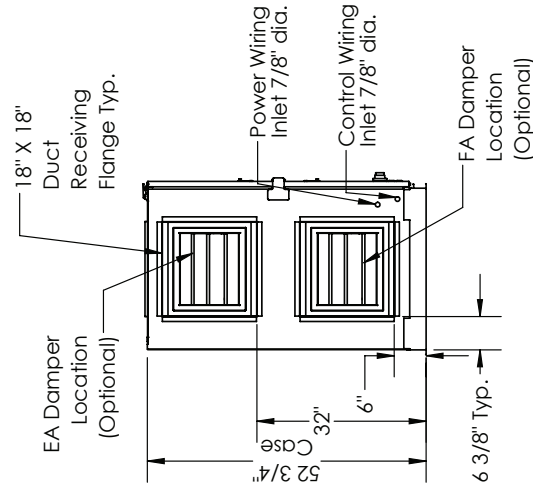
Unit may be installed in any orientation.

NOTE

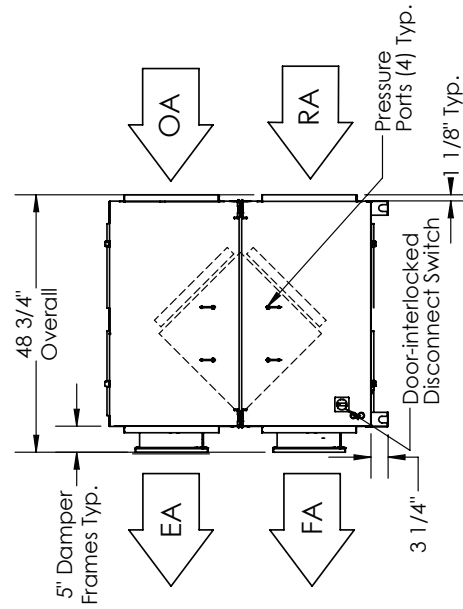
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



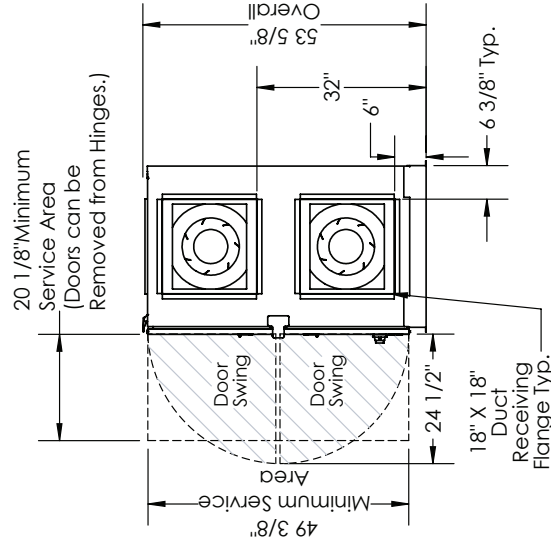
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
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 unless certain options are selected. Duct configuration is field convertible.



HE 1.5XINH

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range:

375–1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total Qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

48 3/4" L x 34 1/2" W x 53 3/4" H
 337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 53" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive standard motorized
 impeller packages

Options:

Qty. 2, Variable Speed/ECM - Direct drive motors
 (see HE1.5XINH EC Motor submittal) -
 1.0 HP 120V/1Ph/60HZ,
 1.0 HP 208-230V/1Ph/60HZ
 Independent blower control
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1–175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.50	0.75	1.00	1.25	1.50
1.0 Single Phase	1,575 CFM 1,545 Watts	1,470 CFM 1,525 Watts	1,350 CFM 1,500 Watts	1,225 CFM 1,475 Watts	1,090 CFM 1,435 Watts	950 CFM 1,380 Watts	795 CFM 1,300 Watts
1.0 Three Phase	1,675 CFM 1,410 Watts	1,570 CFM 1,400 Watts	1,435 CFM 1,380 Watts	1,280 CFM 1,340 Watts	1,115 CFM 1,280 Watts	940 CFM 1,210 Watts	760 CFM 1,135 Watts

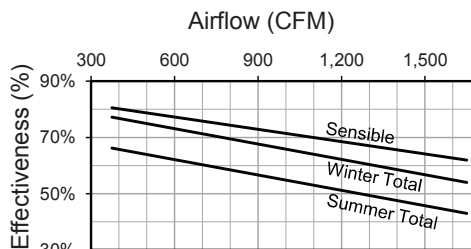
Note: Watts is for the entire unit (2 motors).

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

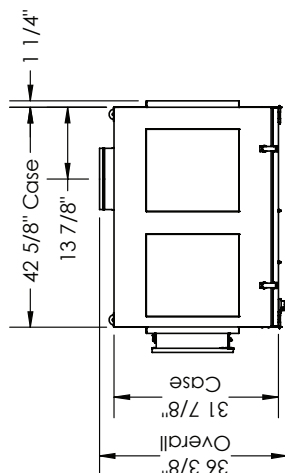
ELECTRICAL DATA

HP	V	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	6.5	14.6	20
1.0	208-230	60	Single	3.3-3.4	7.7	15
1.0	277	60	Single	2.7	6.1	15
1.0	208-230	60	Three	2.2-2.2	5.0	15
1.0	460	60	Three	1.1	2.5	15

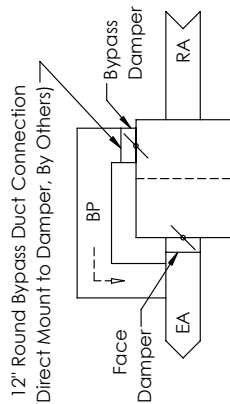
CORE PERFORMANCE



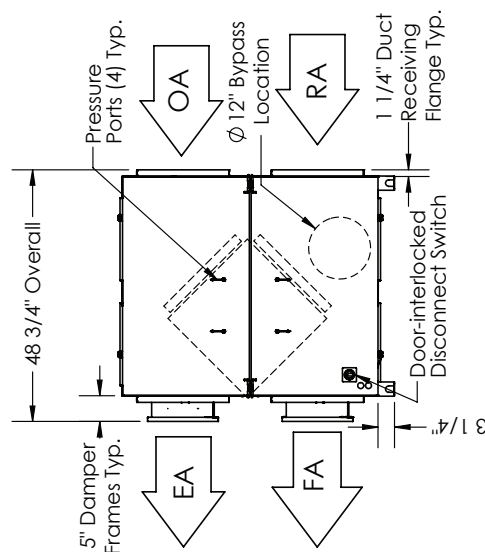
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.



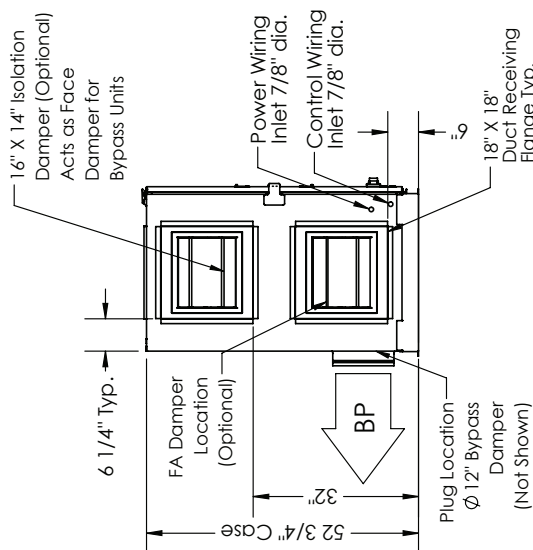
BYPASS AIRFLOW SCHEMATIC
TOP VIEW
(OA/FA Airstream Not Shown)



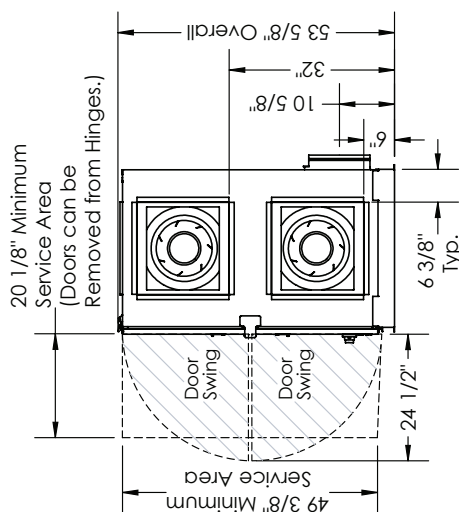
TOP VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW

ABBREVIATIONS

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

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.

3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).

5. FOR INSTALLATION DETAILS, REFER TO I/O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. Airstreams can not be switched.

HE 1.5XINH

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

48 3/4" L x 34 1/2" W x 53 3/4" H
 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 53" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

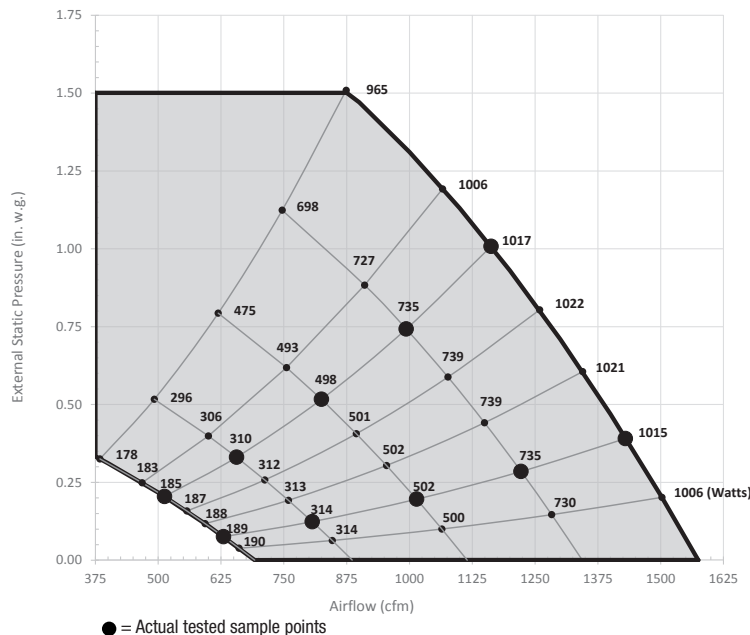
HE1.5XINH EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
630	0.07	189
807	0.12	314
1014	0.20	502
1222	0.28	735
1430	0.39	1015
513	0.20	185
656	0.33	310
825	0.52	498
994	0.74	735
1163	1.01	1017

Note: Watts is for the entire unit.

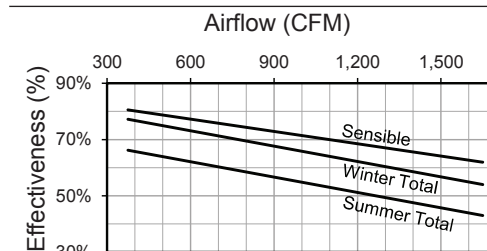
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

HE1.5XINH Energy Recovery Ventilator EC Motor with Bypass Economizer

ABBREVIATIONS

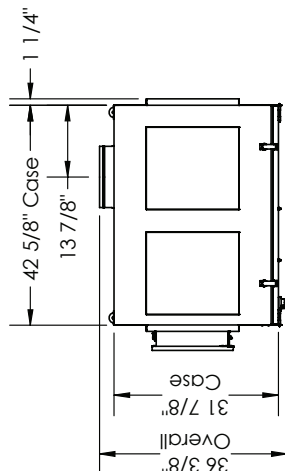
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air outlet

INSTALLATION ORIENTATION

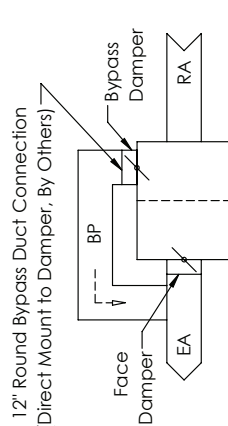
Unit may be installed in any orientation.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

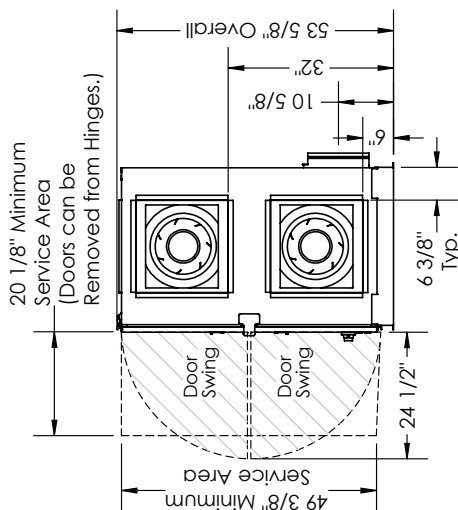


TOP VIEW

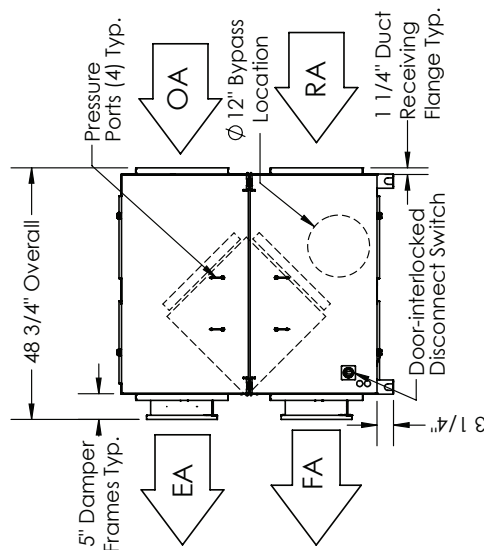


BYPASS AIRFLOW SCHEMATIC
TOP VIEW

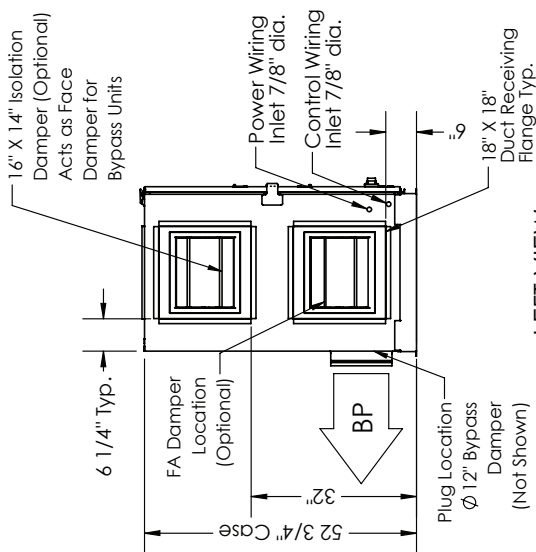
(OA/FA Airstream Not Shown)



RIGHT VIEW



FRONT VIEW



LEFT VIEW

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. Airstreams can not be switched.



HE 1.5XINV

INDOOR UNIT



HE1.5XINV shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

59 1/2" L x 34 1/2" W x 46 1/4" H
 337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 59" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive standard motorized
 impeller packages

Options:

Qty. 2, Variable Speed/ECM - Direct drive motors
 (see HE1.5XINV EC Motor submittal) -
 1.0 HP 120V/1Ph/60HZ,
 1.0 HP 208-230V/1Ph/60HZ
 Independent blower control
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.50	0.75	1.00	1.25	1.50
1.0 Single Phase	1,575 CFM 1,545 Watts	1,470 CFM 1,525 Watts	1,350 CFM 1,500 Watts	1,225 CFM 1,475 Watts	1,090 CFM 1,435 Watts	950 CFM 1,380 Watts	795 CFM 1,300 Watts
1.0 Three Phase	1,675 CFM 1,410 Watts	1,570 CFM 1,400 Watts	1,435 CFM 1,380 Watts	1,280 CFM 1,340 Watts	1,115 CFM 1,280 Watts	940 CFM 1,210 Watts	760 CFM 1,135 Watts

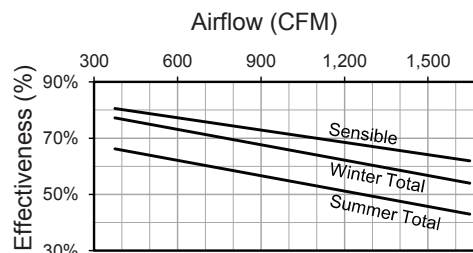
Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	6.5	14.6	20
1.0	208-230	60	Single	3.3-3.4	7.7	15
1.0	277	60	Single	2.7	6.1	15
1.0	208-230	60	Three	2.2-2.2	5.0	15
1.0	460	60	Three	1.1	2.5	15

CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

ABBREVIATIONS

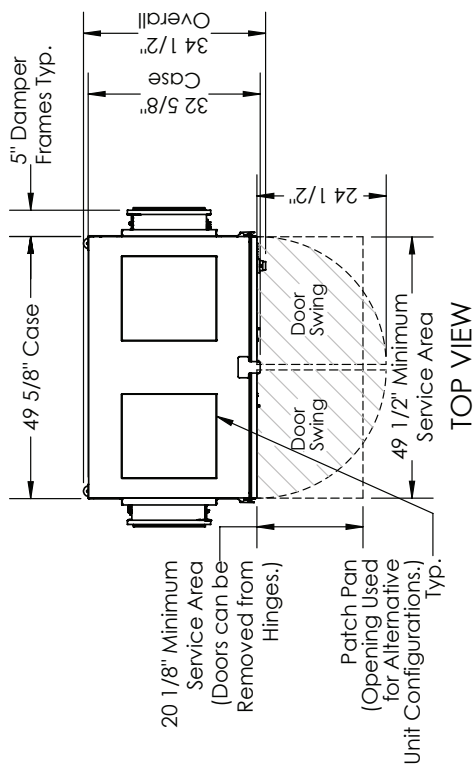
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

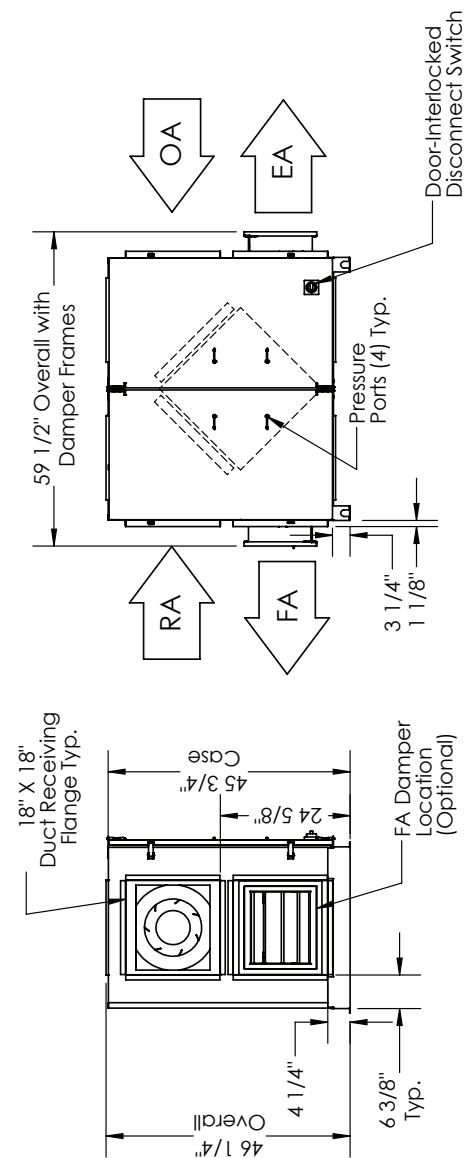
Unit may be installed in any orientation.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

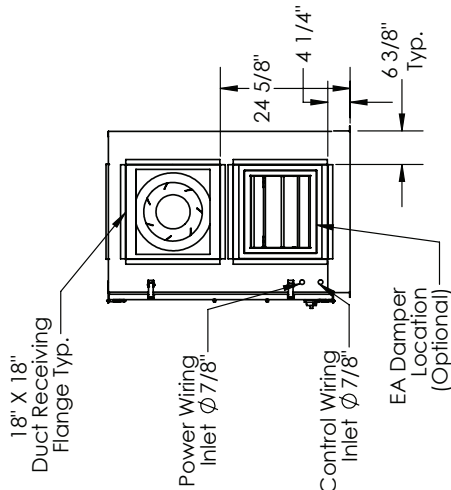


TOP VIEW



LEFT VIEW

FRONT VIEW



RIGHT VIEW

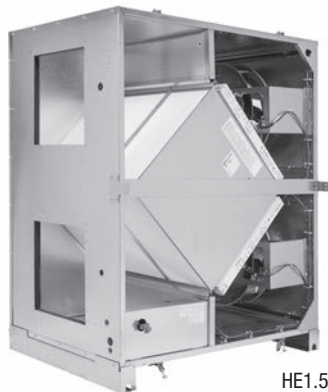
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected. Duct configuration is field convertible.

HE 1.5XINV

INDOOR UNIT



HE1.5XINV shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

59 1/2" L x 34 1/2" W x 46 1/4" H
 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 59" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

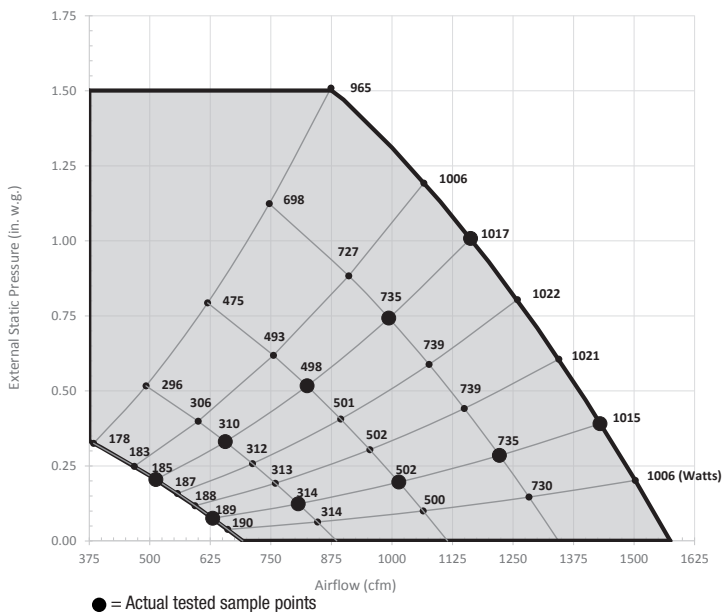
HE1.5XINV EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
630	0.07	189
807	0.12	314
1014	0.20	502
1222	0.28	735
1430	0.39	1015
513	0.20	185
656	0.33	310
825	0.52	498
994	0.74	735
1163	1.01	1017

Note: Watts is for the entire unit.

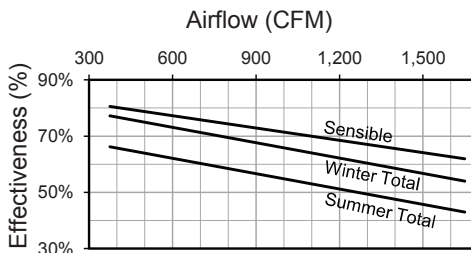
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

HE1.5XINV Energy Recovery Ventilator EC Motor Option

ABBREVIATIONS

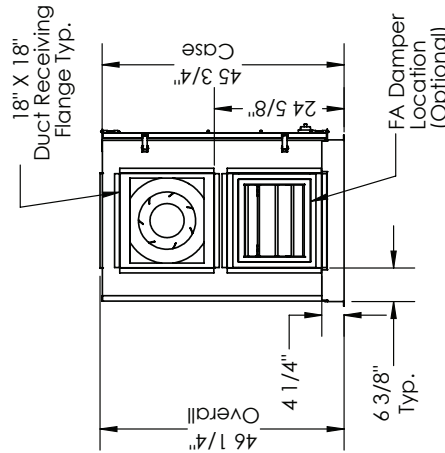
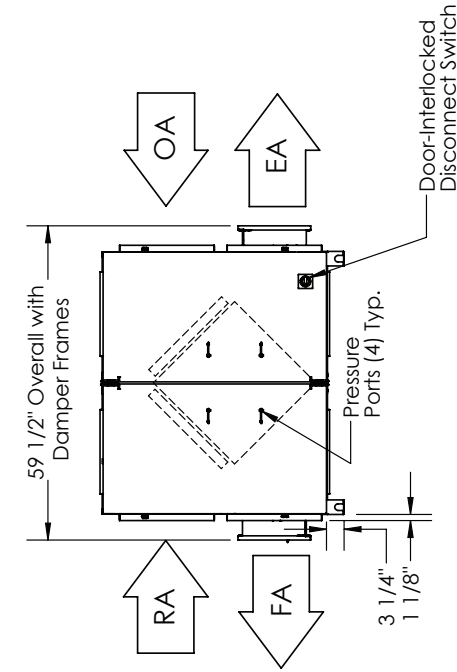
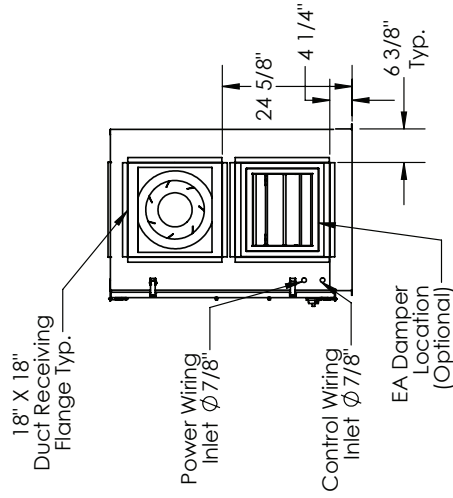
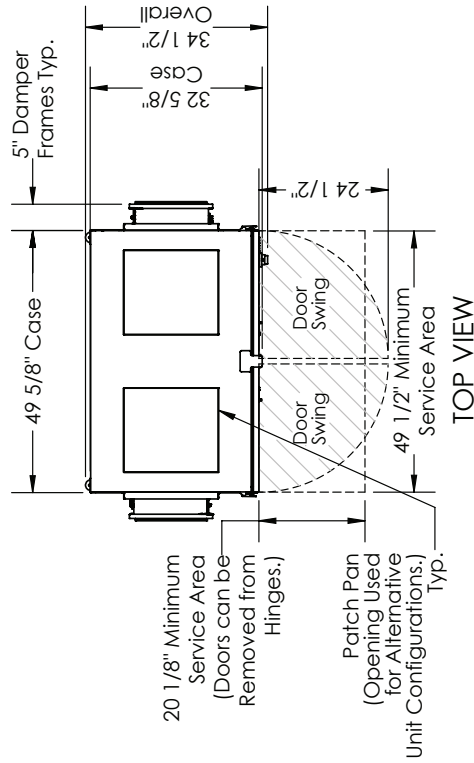
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



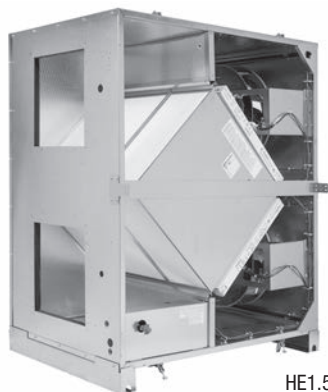
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected. Duct configuration is field convertible.



HE 1.5XINV

INDOOR UNIT



HE1.5XINV shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

59 1/2" L x 34 1/2" W x 46 1/4" H
 337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 59" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive standard motorized
 impeller packages

Options:

Qty. 2, Variable Speed/ECM - Direct drive motors
 (see HE1.5XINV EC Motor submittal) -
 1.0 HP 120V/1Ph/60HZ,
 1.0 HP 208-230V/1Ph/60HZ
 Independent blower control
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.50	0.75	1.00	1.25	1.50
1.0 Single Phase	1,575 CFM 1,545 Watts	1,470 CFM 1,525 Watts	1,350 CFM 1,500 Watts	1,225 CFM 1,475 Watts	1,090 CFM 1,435 Watts	950 CFM 1,380 Watts	795 CFM 1,300 Watts
1.0 Three Phase	1,675 CFM 1,410 Watts	1,570 CFM 1,400 Watts	1,435 CFM 1,380 Watts	1,280 CFM 1,340 Watts	1,115 CFM 1,280 Watts	940 CFM 1,210 Watts	760 CFM 1,135 Watts

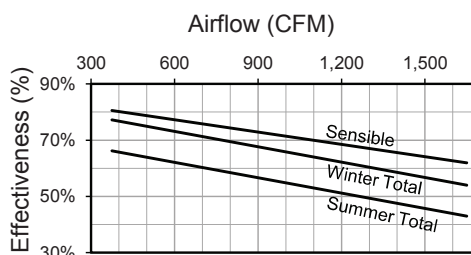
Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

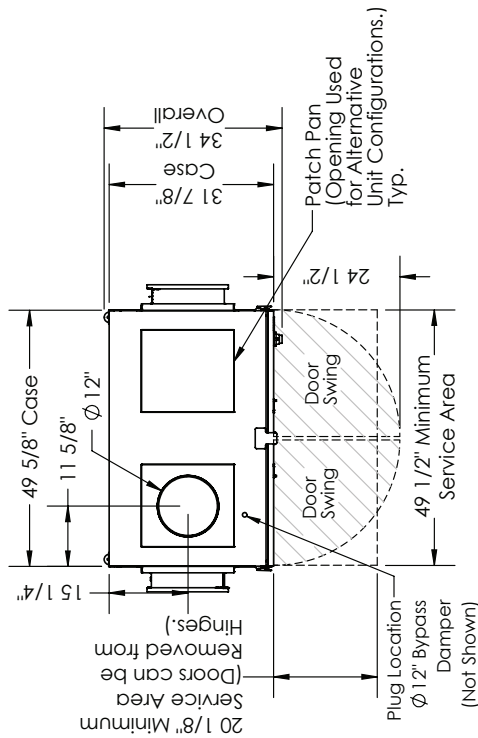
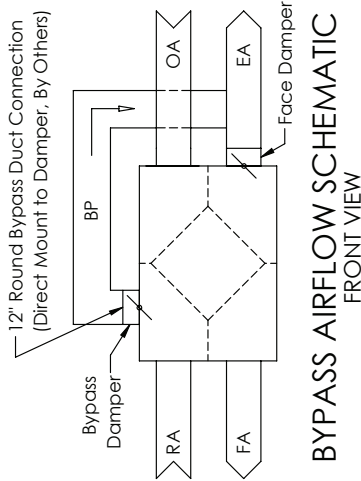
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	6.5	14.6	20
1.0	208-230	60	Single	3.3-3.4	7.7	15
1.0	277	60	Single	2.7	6.1	15
1.0	208-230	60	Three	2.2-2.2	5.0	15
1.0	460	60	Three	1.1	2.5	15

CORE PERFORMANCE

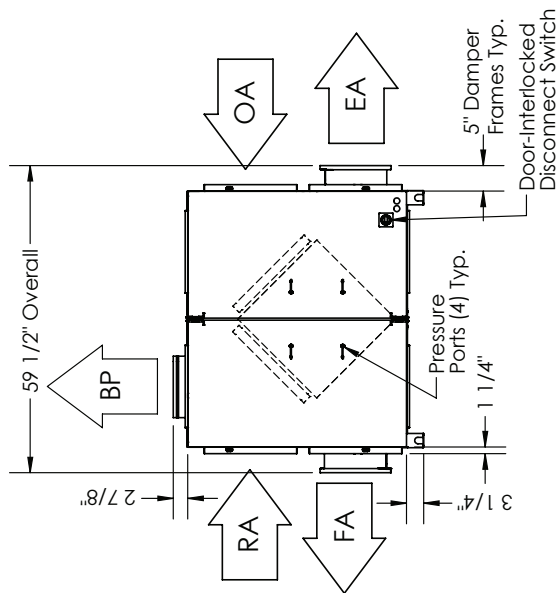


At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

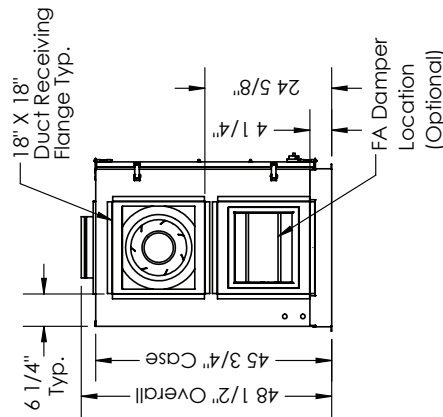
HE1.5XINV Energy Recovery Ventilator Standard with Bypass Economizer



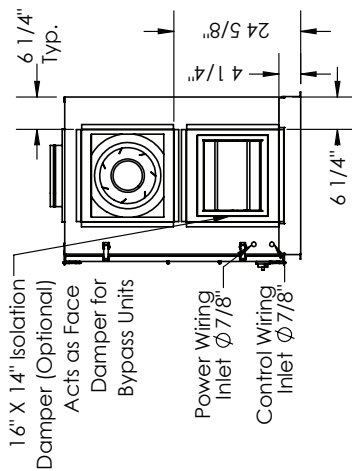
TOP VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW

ABBREVIATIONS

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

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.



HE 1.5XINV

INDOOR UNIT



HE1.5XINV shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

59 1/2" L x 34 1/2" W x 46 1/4" H
 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 59" H
 571 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

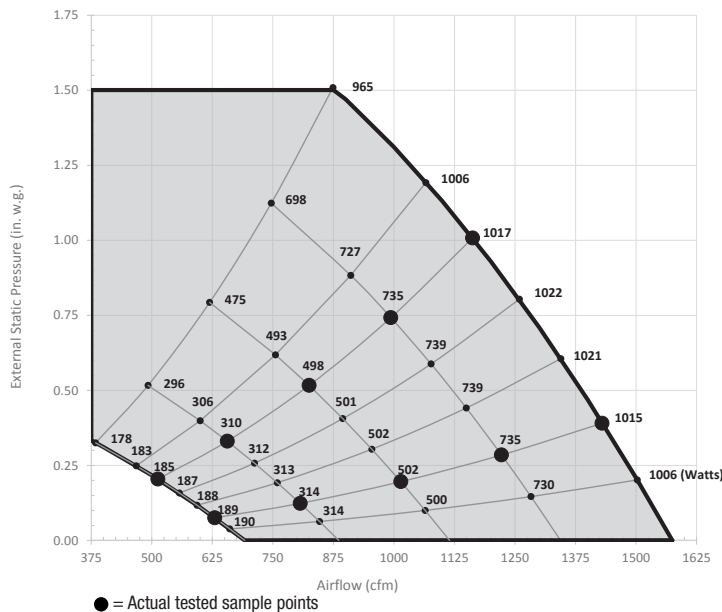
HE1.5XINV EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
630	0.07	189
807	0.12	314
1014	0.20	502
1222	0.28	735
1430	0.39	1015
513	0.20	185
656	0.33	310
825	0.52	498
994	0.74	735
1163	1.01	1017

Note: Watts is for the entire unit.

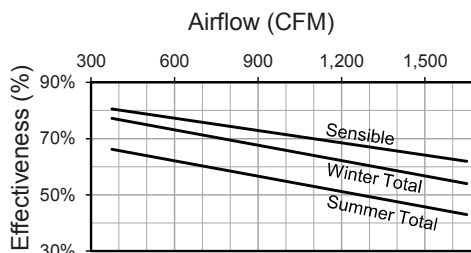
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



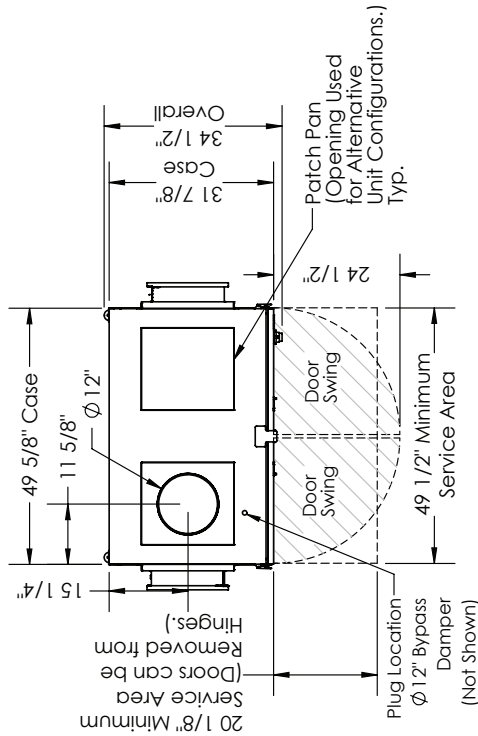
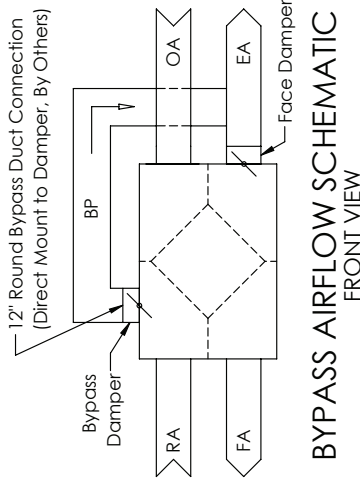
CORE PERFORMANCE



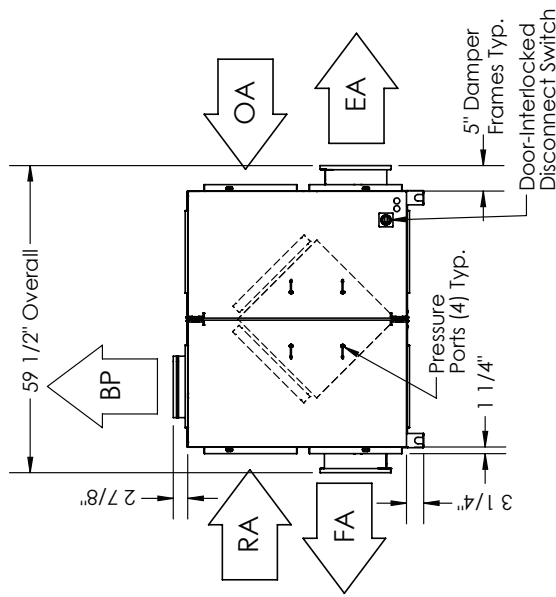
At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

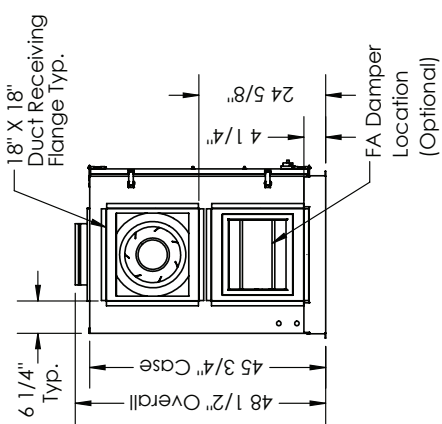
HE1.5XINV Energy Recovery Ventilator EC Motor with Bypass Economizer



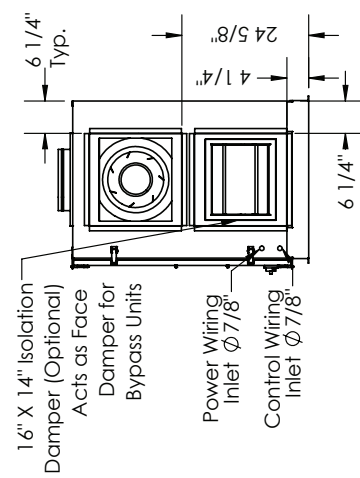
TOP VIEW



FRONT VIEW



LEFT VIEW



RIGHT VIEW

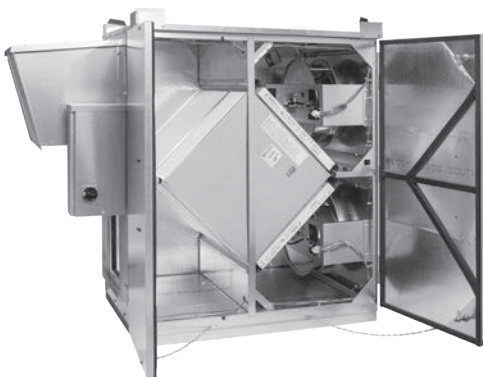
- ABBREVIATIONS**
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 BP: Bypass Air outlet
- INSTALLATION ORIENTATION**
 Unit may be installed in any orientation.
- NOTE**
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
 4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
 5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Can be mounted in any orientation. Airstreams can not be switched.

HE 1.5XRT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

86" L x 33 1/4" W x 56 3/4" H
 387-548 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 83" H
 615 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive standard motorized
 impeller packages

Options:

Qty. 2, Variable Speed/ECM - Direct drive motors
 (see HE1.5XRT EC Motor submittal) -
 1.0 HP 120V/1Ph/60HZ,
 1.0 HP 208-230V/1Ph/60HZ
 Independent blower control
 Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP Phase	External Static Pressure (Inches Water Column)						
	0.0	0.25	0.50	0.75	1.00	1.25	1.50
1.0 Single Phase	1,535 CFM 1,540 Watts	1390 CFM 1515 Watts	1255 CFM 1485 Watts	1120 CFM 1445 Watts	970 CFM 1395 Watts	815 CFM 1310 Watts	640 CFM 1195 Watts
1.0 Three Phase	1,630 CFM 1,440 Watts	1485 CFM 1435 Watts	1335 CFM 1415 Watts	1170 CFM 1375 Watts	995 CFM 1325 Watts	810 CFM 1260 Watts	615 CFM 1180 Watts

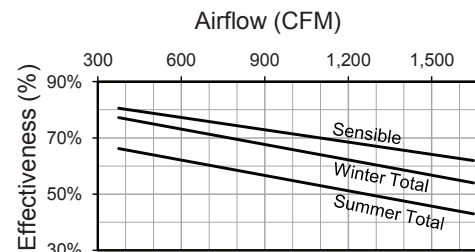
Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	6.5	14.6	20			
1.0	208-230	60	Single	3.3-3.4	7.7	15			
1.0	277	60	Single	2.7	6.1	15			
1.0	208-230	60	Three	2.2-2.2	5.0	15	2.2 - 2.2	5.4	15
1.0	460	60	Three	1.1	2.5	15	1.1	2.8	15

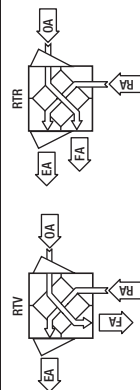
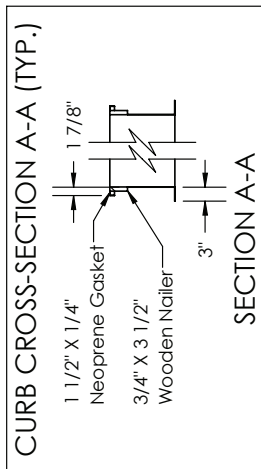
CORE PERFORMANCE



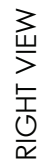
At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

RenewAire®
Energy Recovery Ventilation



2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



UNIT MOUNTING & APPLICATION

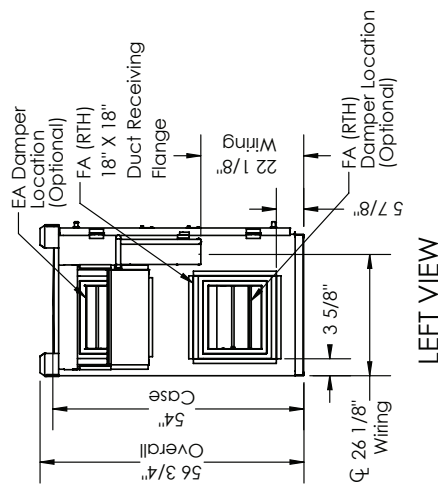
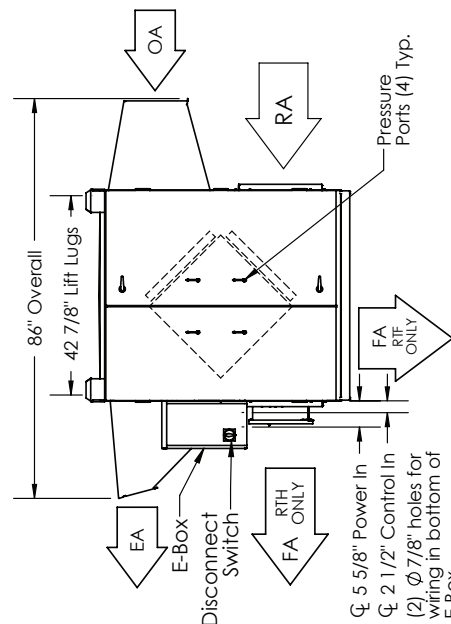
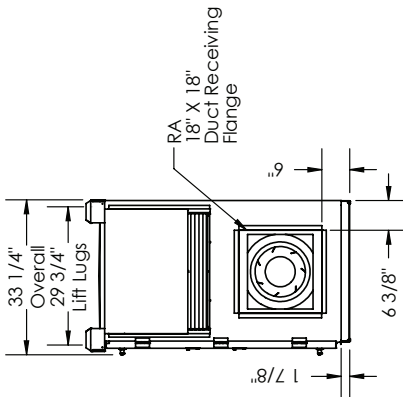
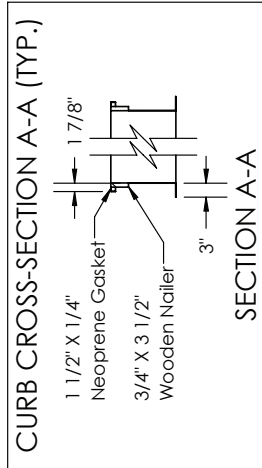
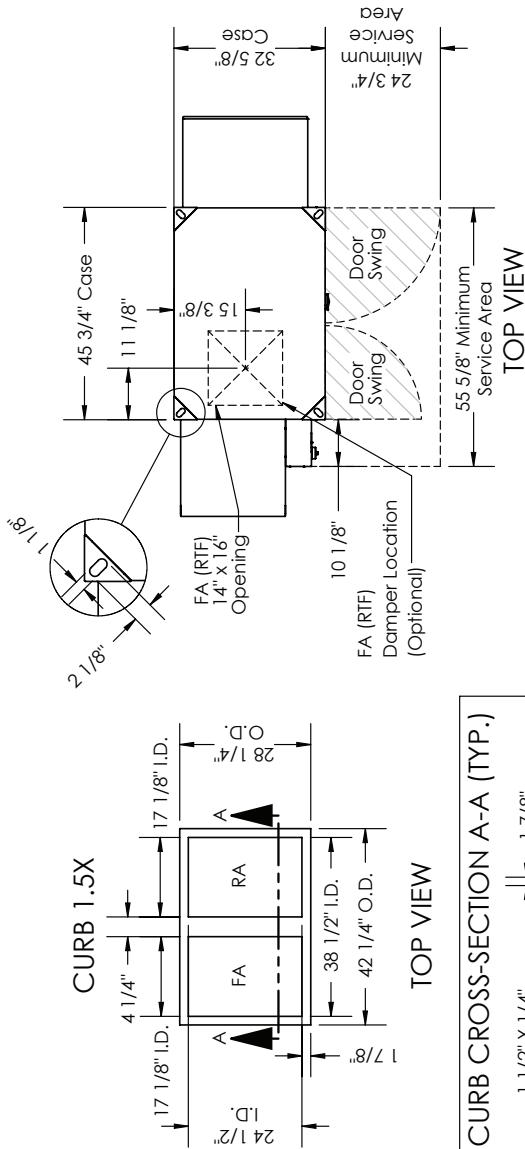
Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

HE1.5XRT (RTH/RTF) Energy Recovery Ventilator Standard

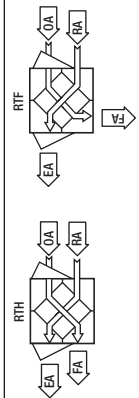
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 RTF: Rooftop Vertical FA Only
 RTH: Rooftop Horizontal RA & FA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

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



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

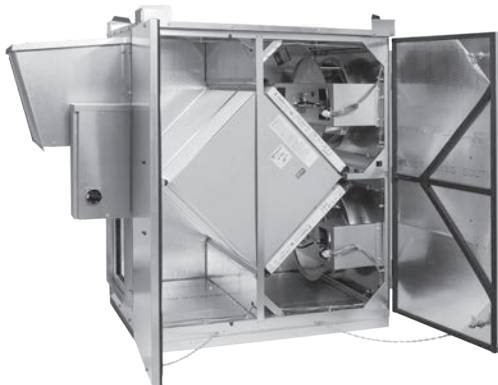


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HE 1.5XRT

ROOFTOP UNIT



Download specification at:
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Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,525 CFM

AHRI 1060 Certified Core:

One L62-G5 and one L125-G5

Standard Features:

Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
 (2) 16" x 20" x 2"

Unit Dimensions & Weight:

86" L x 33 1/4" W x 56 3/4" H
 386-548 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 83" H
 615 lbs.

Motor(s):

Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

Options:

Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

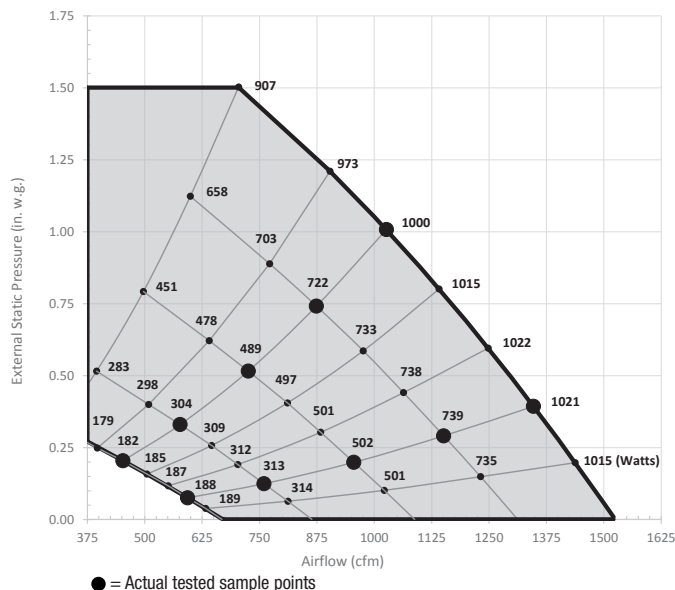
Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 Digital time clock - wall mount (TC7D-W),
 in exterior enclosure (TC7D-E)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

HE1.5XRT EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
593	0.07	188
760	0.12	313
955	0.20	502
1151	0.29	739
1347	0.39	1021
453	0.20	182
577	0.33	304
725	0.51	489
874	0.74	722
1026	1.01	1000

Note: Watts is for the entire unit.

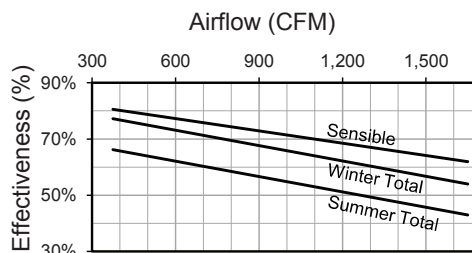
Note: Airflow performance includes effect of clean, standard filter supplied with unit.



CORE PERFORMANCE

ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.0	120	60	Single	8.0	18.0	20
1.0	208-230	60	Single	6.2	14.0	15



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

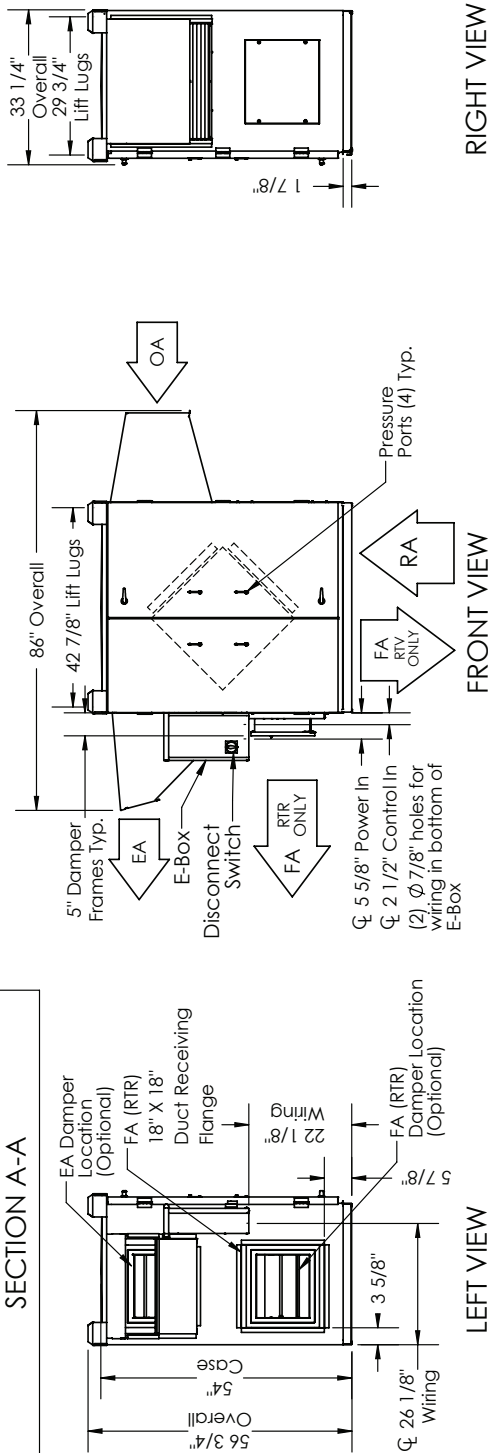
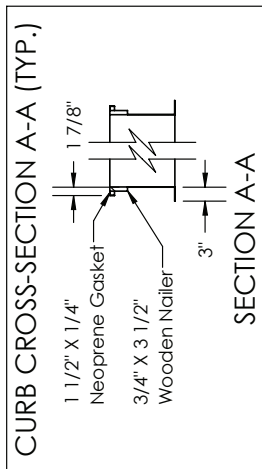
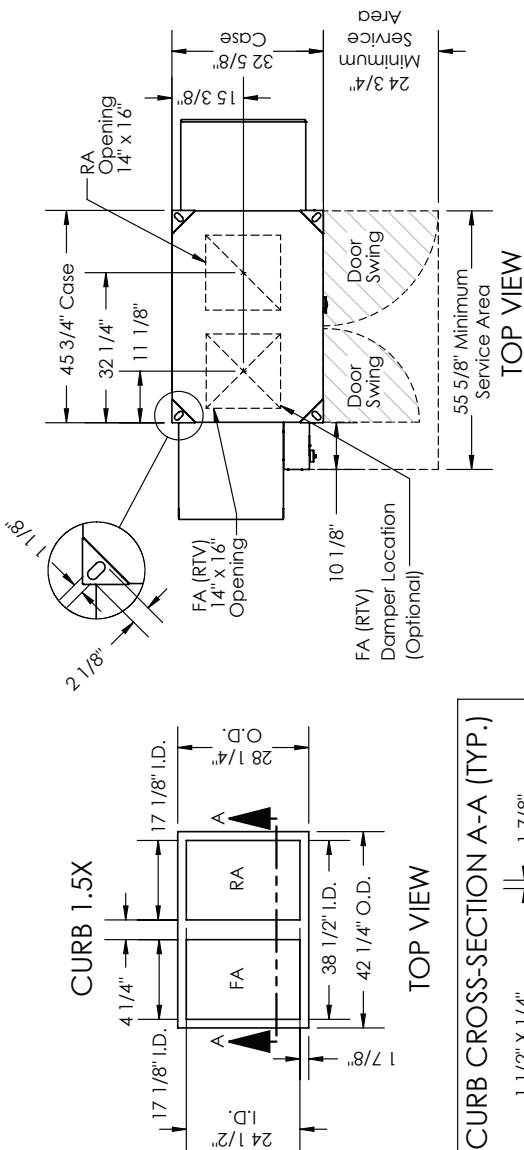
Specifications may be subject to change without notice.

HE1.5XRT (RTV/RTTR) Energy Recovery Ventilator EC Motor Option

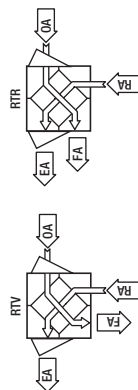
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RTV: Rooftop Vertical RA & FA
RTR: Rooftop Vertical RA Only

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

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



AIRFLOW CONFIGURATION
Available as shown:



UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

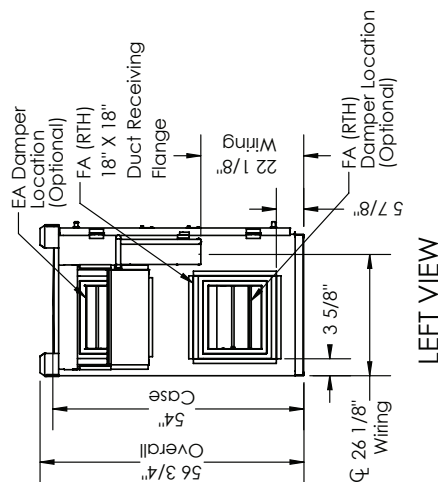
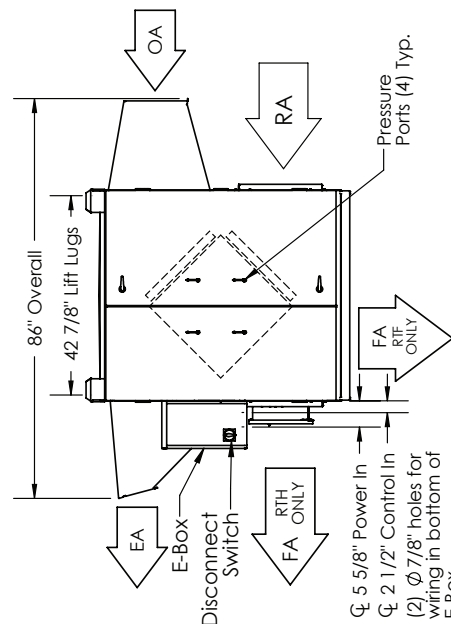
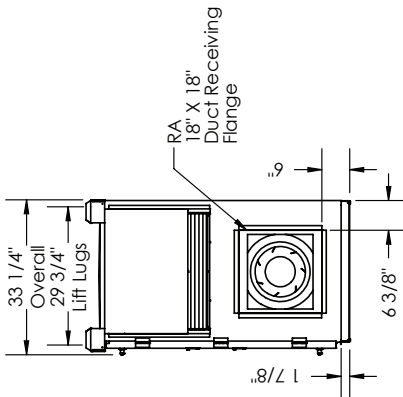
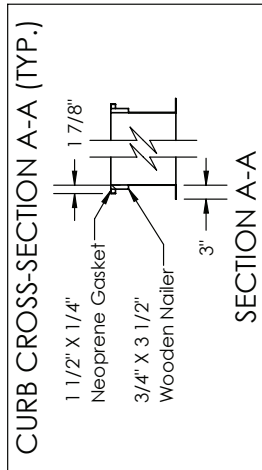
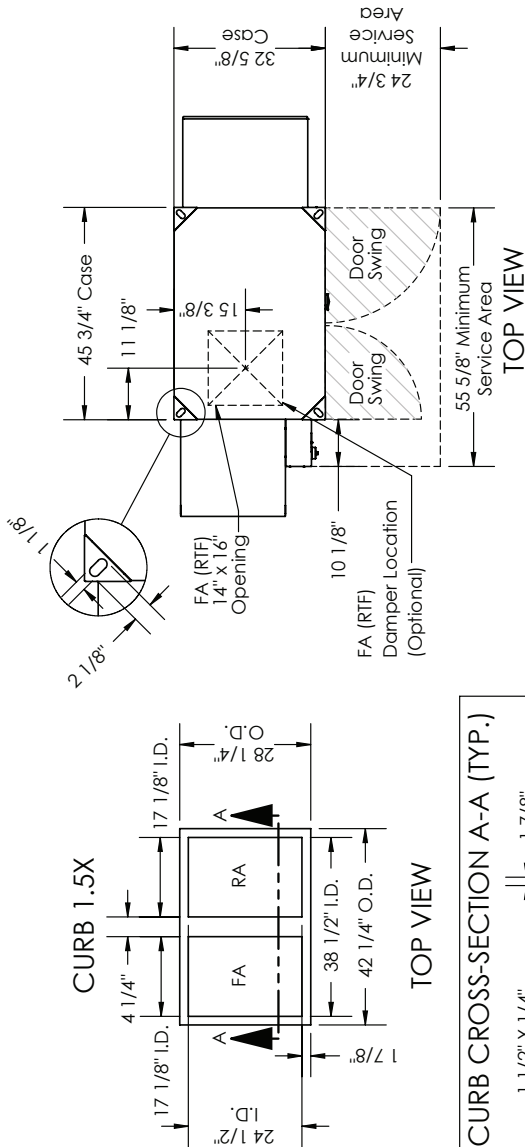


HE1.5XRT (RTH/RTF) Energy Recovery Ventilator EC Motor Option

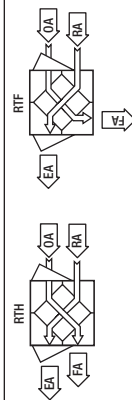
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 RTF: Rooftop Vertical FA Only
 RTH: Rooftop Horizontal RA & FA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

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



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

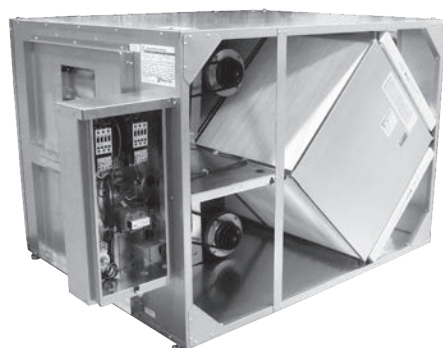


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INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM**AHRI 1060 Certified Core:** Two L125-G5**Standard Features:**

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

64 1/2" L x 43" W x 35 1/2" H
 406-619 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 40" H
 714 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1.5	1148	4	1592	0.7	1480	0.7	1320	0.6	1120	0.5	800	0.4				
	1304	2	1809	1.0	1720	1.0	1600	0.9	1410	0.8	1250	0.7	975	0.6	630	0.4
	1460	0	2025	1.5	1950	1.4	1845	1.3	1715	1.2	1540	1.1	1400	1.0	1165	0.8
2.0	1506	2	2130	1.6	2050	1.5	1955	1.4	1840	1.3	1735	1.2	1585	1.0	1360	0.9
	1584	1			2170	1.8	2080	1.7	1970	1.5	1870	1.4	1765	1.3	1565	1.1
	1661	0					2200	1.9	2100	1.8	2000	1.7	1900	1.5	1765	1.4

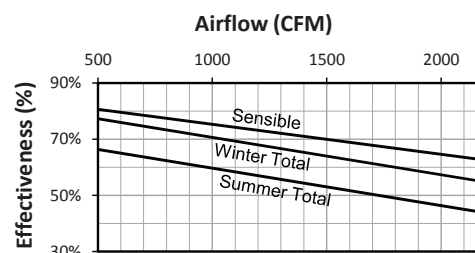
Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.5	120	60	Single	15.2	34.2	45			
1.5	208-230	60	Single	8.2-7.6	18.5	25	4.6-4.8	20.6	25
	208-230	60	Three	4.6-4.8	10.8	15	4.6-4.8	11.9	15
	460	60	Three	2.4	5.4	15	2.4	5.9	15
	575	60	Three	1.8	4.1	15	1.8	4.5	15
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

ABBREVIATIONS

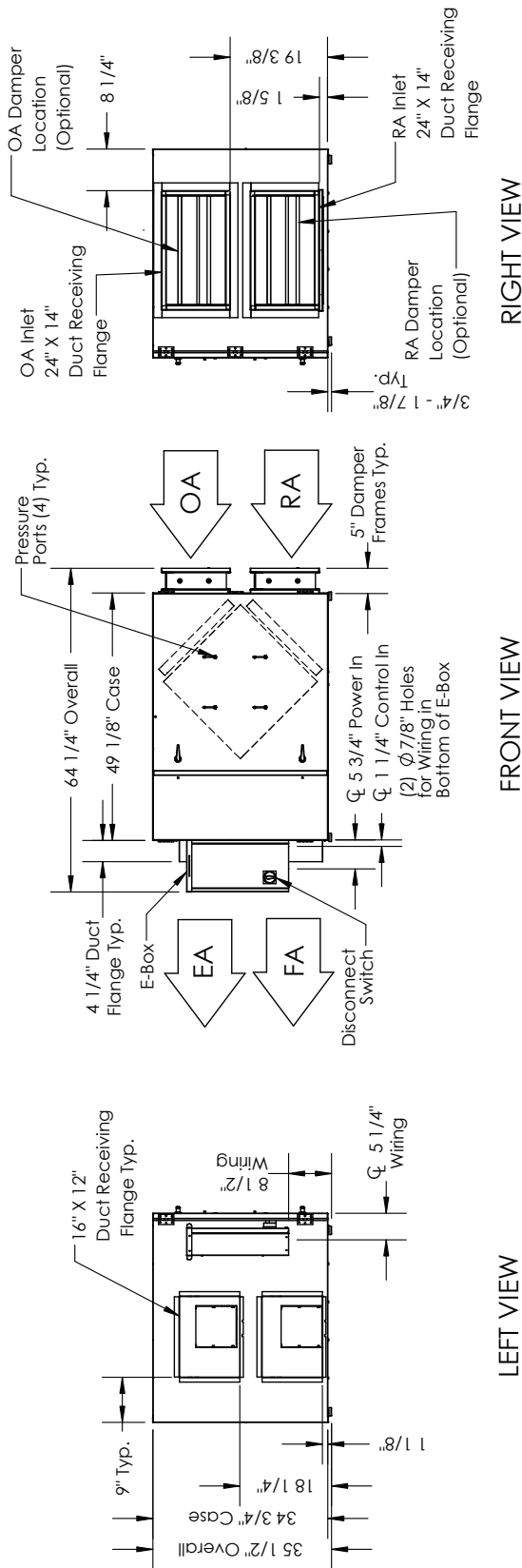
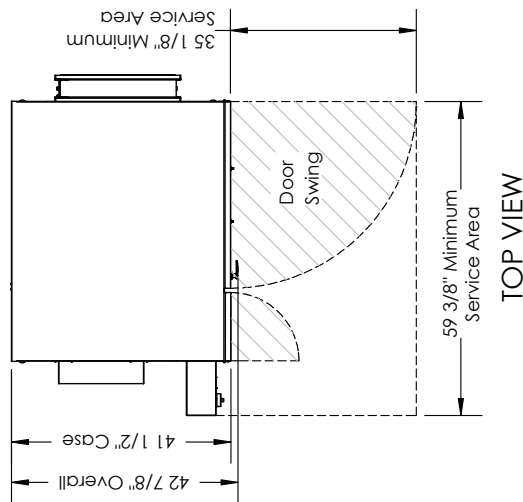
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



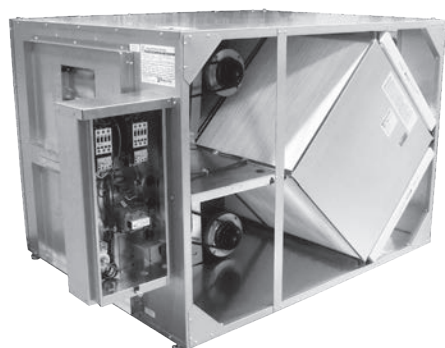
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM**AHRI 1060 Certified Core:** Two L125-G5**Standard Features:**

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

64 1/2" L x 43" W x 35 1/2" H
 406-619 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 40" H
 714 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1.5	1148	4	1592	0.7	1480	0.7	1320	0.6	1120	0.5	800	0.4				
	1304	2	1809	1.0	1720	1.0	1600	0.9	1410	0.8	1250	0.7	975	0.6	630	0.4
	1460	0	2025	1.5	1950	1.4	1845	1.3	1715	1.2	1540	1.1	1400	1.0	1165	0.8
2.0	1506	2	2130	1.6	2050	1.5	1955	1.4	1840	1.3	1735	1.2	1585	1.0	1360	0.9
	1584	1			2170	1.8	2080	1.7	1970	1.5	1870	1.4	1765	1.3	1565	1.1
	1661	0					2200	1.9	2100	1.8	2000	1.7	1900	1.5	1765	1.4

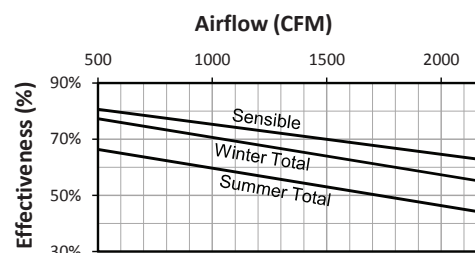
Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.5	120	60	Single	15.2	34.2	45			
1.5	208-230	60	Single	8.2-7.6	18.5	25	4.6-4.8	20.6	25
	208-230	60	Three	4.6-4.8	10.8	15	4.6-4.8	11.9	15
	460	60	Three	2.4	5.4	15	2.4	5.9	15
	575	60	Three	1.8	4.1	15	1.8	4.5	15
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

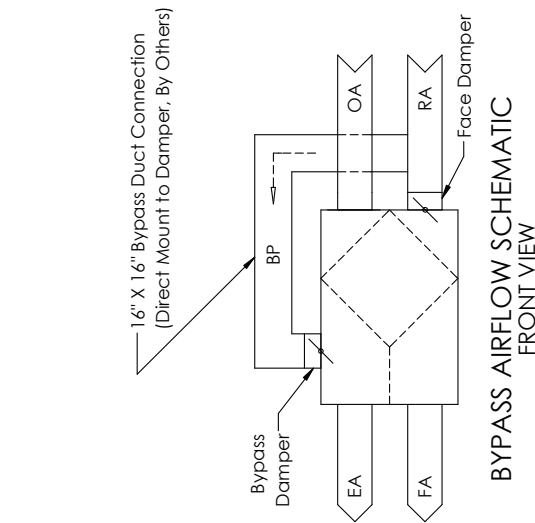
CORE PERFORMANCE



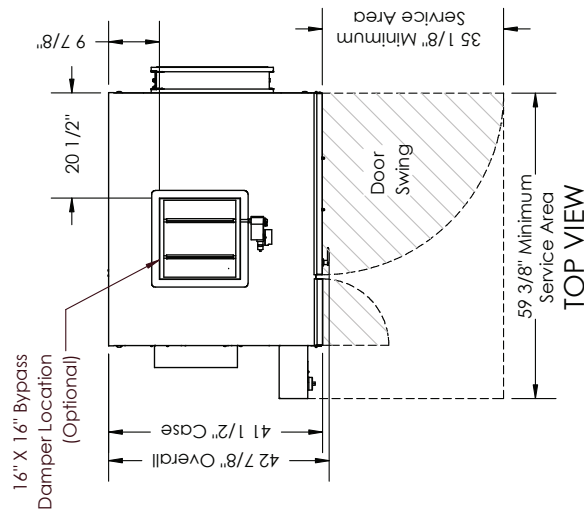
At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

HE2XINH Energy Recovery Ventilator Standard with Bypass Economizer



**BYPASS AIRFLOW SCHEMATIC
FRONT VIEW**



TOP VIEW

ABBREVIATIONS

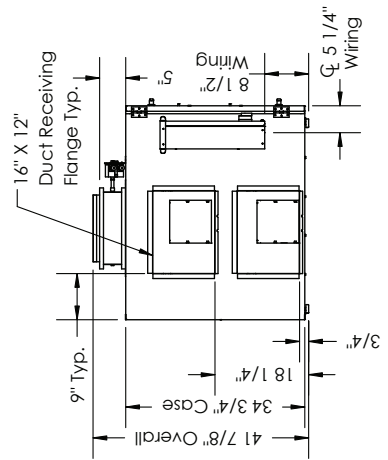
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION

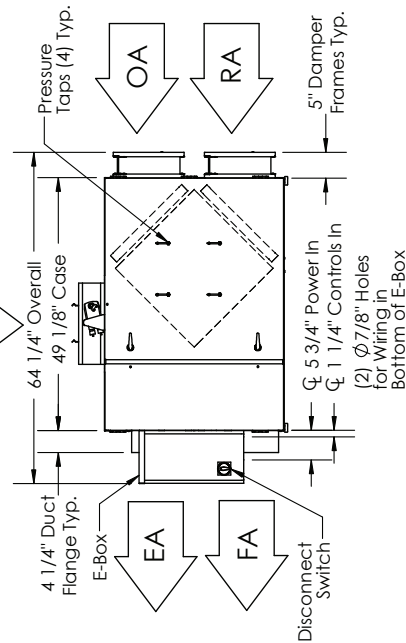
Unit must be installed in orientation shown.

NOTE

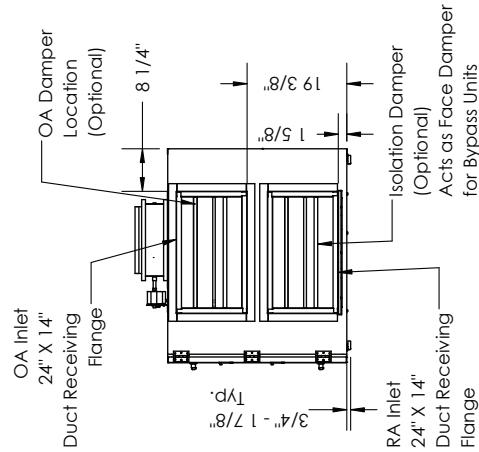
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM**AHRI 1060 Certified Core:** Two L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 1/2" L x 42" W x 52 1/2" H
363-583 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 57" H
678 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1.5	1146	4	1735	0.8	1670	0.7	1520	0.7	1205	0.5	900	0.4				
	1302	2	1975	1.1	1925	1.1	1835	1.0	1615	0.9	1340	0.8	1080	0.6	670	0.4
	1458	0					2100	1.5	1970	1.4	1755	1.3	1495	1.1	1280	0.9
2.0	1503	2					2175	1.7	2100	1.6	1945	1.4	1700	1.2	1465	1.0
	1581	1									2120	1.7	1920	1.5	1685	1.2
	1658	0											2125	1.9	1900	1.6

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

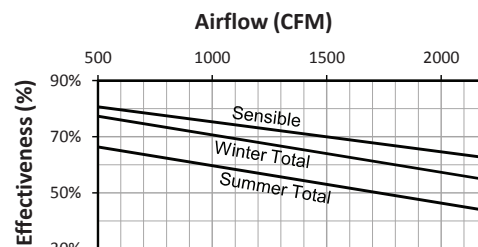
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.5	120	60	Single	15.2	34.2	45			
1.5	208-230	60	Single	8.2-7.6	18.5	25	4.6-4.8	20.6	25
	208-230	60	Three	4.6-4.8	10.8	15	4.6-4.8	11.9	15
	460	60	Three	2.4	5.4	15	2.4	5.9	15
	575	60	Three	1.8	4.1	15	1.8	4.5	15
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



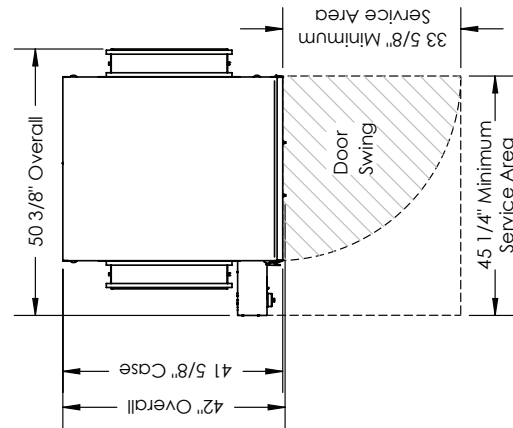
At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

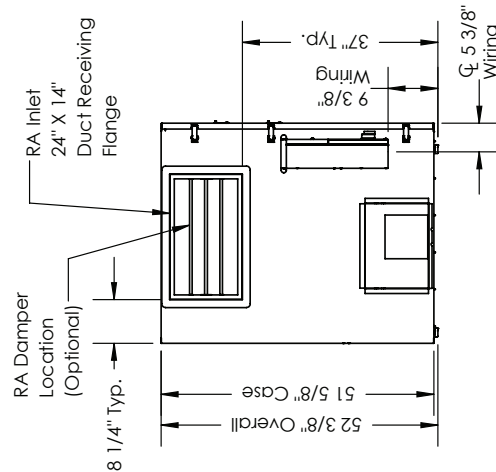
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

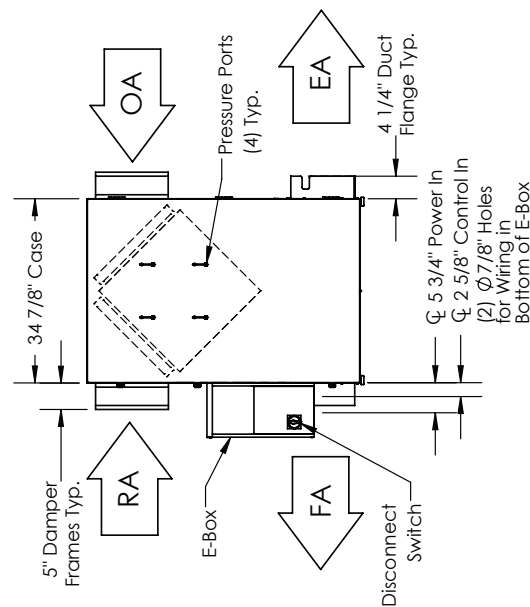
NOTE
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



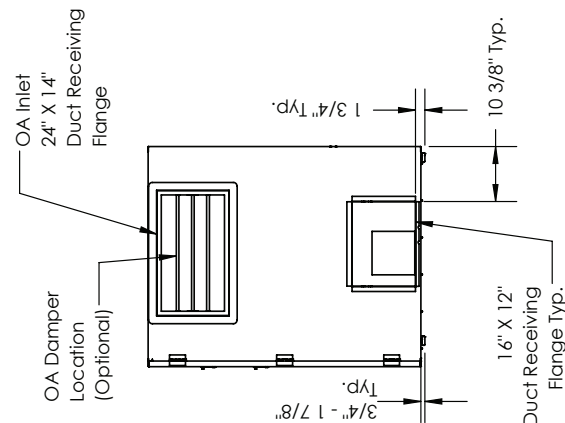
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM**AHRI 1060 Certified Core:** Two L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 1/2" L x 42" W x 52 1/2" H
363-583 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

70" L x 47" W x 57" H
678 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)															
			0.00		0.25		0.50		0.75		1.00		1.25		1.50			
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1.5	1146	4	1735	0.8	1670	0.7	1520	0.7	1205	0.5	900	0.4						
	1302	2	1975	1.1	1925	1.1	1835	1.0	1615	0.9	1340	0.8	1080	0.6	670	0.4		
	1458	0					2100	1.5	1970	1.4	1755	1.3	1495	1.1	1280	0.9		
2.0	1503	2					2175	1.7	2100	1.6	1945	1.4	1700	1.2	1465	1.0		
	1581	1									2120	1.7	1920	1.5	1685	1.2		
	1658	0											2125	1.9	1900	1.6		

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

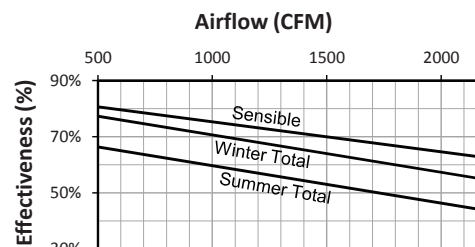
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.5	120	60	Single	15.2	34.2	45			
1.5	208-230	60	Single	8.2-7.6	18.5	25	4.6-4.8	20.6	25
	208-230	60	Three	4.6-4.8	10.8	15	4.6-4.8	11.9	15
	460	60	Three	2.4	5.4	15	2.4	5.9	15
	575	60	Three	1.8	4.1	15	1.8	4.5	15
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

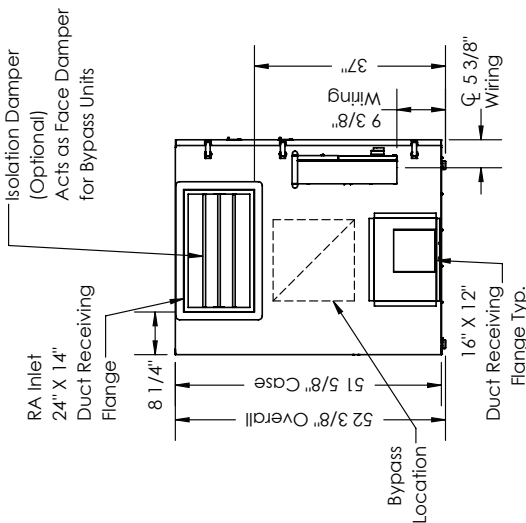
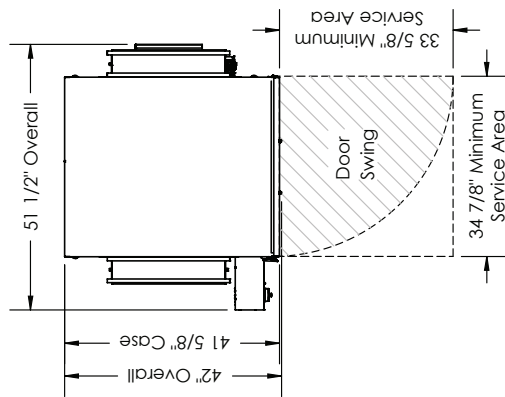
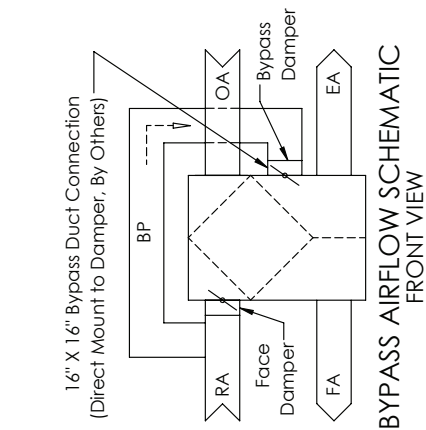
Specifications may be subject to change without notice.

CORE PERFORMANCE

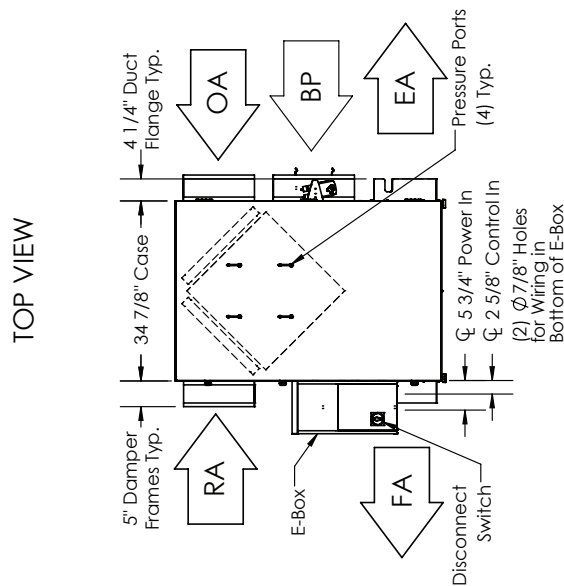


At AHRI 1060 standard conditions.

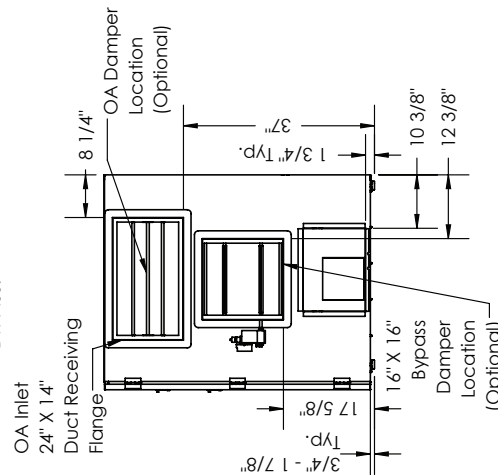
See all AHRI certified ratings at www.ahrinet.org.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

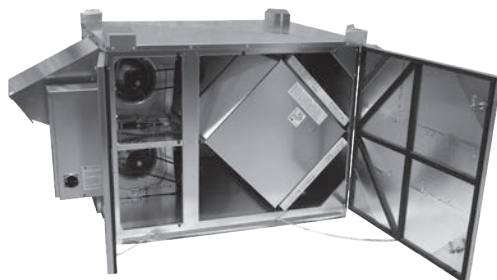
- ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake
- INSTALLATION ORIENTATION**
Unit must be installed in orientation shown.
- NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,000 CFM

AHRI 1060 Certified Core: Two L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

87 1/2" L x 43 1/4" W x 44" H
 498-689 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

96" L x 47" W x 50" H
 784 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)															
			0.00		0.25		0.50		0.75		1.00		1.25		1.50			
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1.5	1192	4	1560	0.7	1460	0.7	1300	0.6	1100	0.5	845	0.4						
	1348	2	1765	1.1	1685	1.0	1560	0.9	1380	0.8	1210	0.7	975	0.6	650	0.4		
	1504	0	1970	1.5	1900	1.4	1800	1.3	1670	1.2	1500	1.1	1345	1.0	1135	0.8		
2.0	1516	2	2087	1.6	2000	1.5	1915	1.4	1775	1.2	1635	1.1	1475	1.0	1260	0.8		
	1594	1	2194	1.8	2110	1.7	2035	1.6	1920	1.5	1765	1.3	1630	1.2	1470	1.1		
	1671	0					2145	1.9	2050	1.7	1905	1.5	1775	1.4	1640	1.3		

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

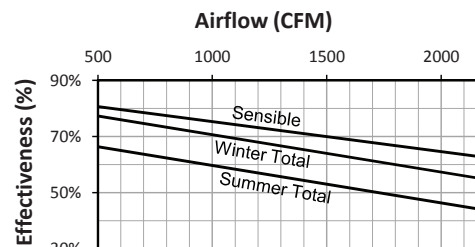
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
1.5	120	60	Single	15.2	34.2	45			
1.5	208-230	60	Single	8.2-7.6	18.5	25	4.6-4.8	20.6	25
	208-230	60	Three	4.6-4.8	10.8	15	4.6-4.8	11.9	15
	460	60	Three	2.4	5.4	15	2.4	5.9	15
	575	60	Three	1.8	4.1	15	1.8	4.5	15
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

RenewAire®
Energy Recovery Ventilation



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

1 1/2" X 1/4"

1 7/8"

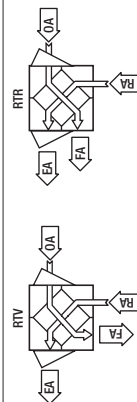
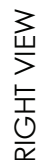
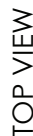
Neoprene Gasket

3/4" X 3 1/2"

Wooden Nailer

1 1/4"

3"

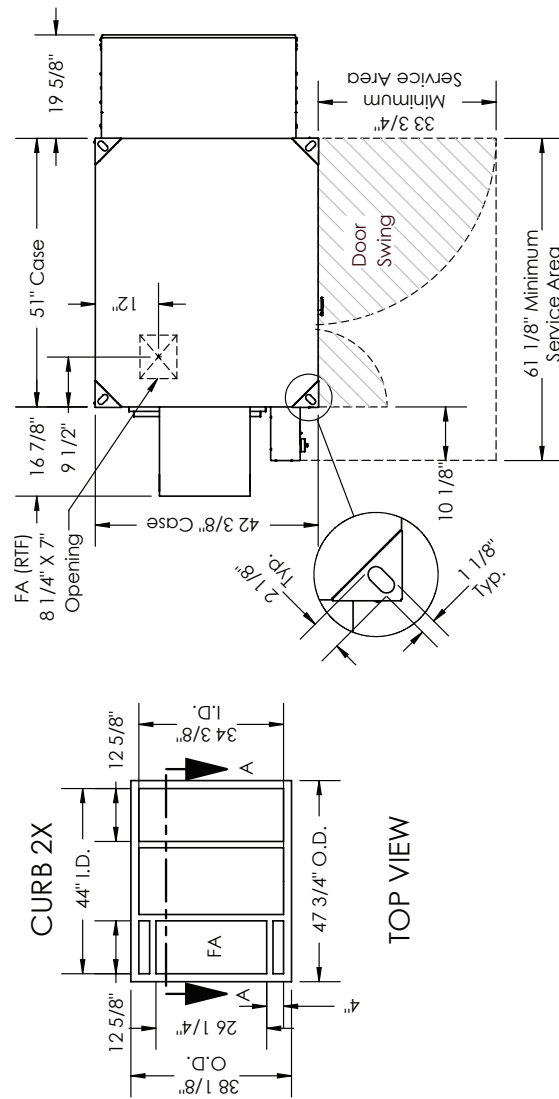


UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not



FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT **RENEWAIRE.COM**

HE2XRT (RTH/RTF) Energy Recovery Ventilator Standard



TOP VIEW

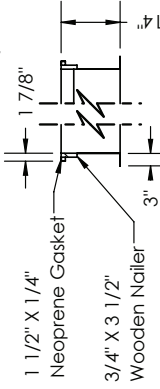
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 RTF: Rooftop Vertical FA Only
 RTH: Rooftop Horizontal RA & FA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

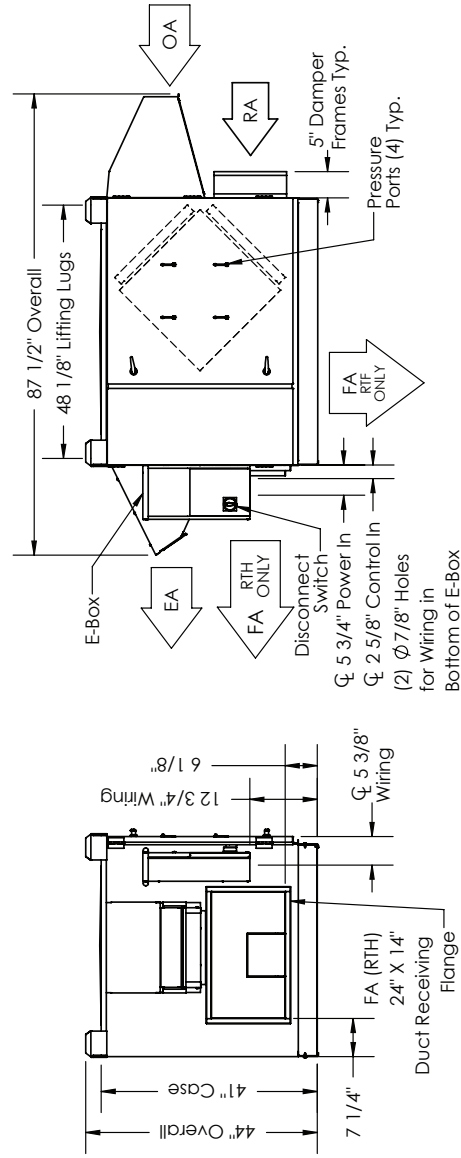
NOTE:
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

CURB CROSS-SECTION A-A (TYP.)



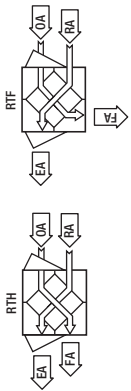
SECTION A-A



FRONT VIEW

LEFT VIEW

AIRFLOW CONFIGURATION
 Available as shown:



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.

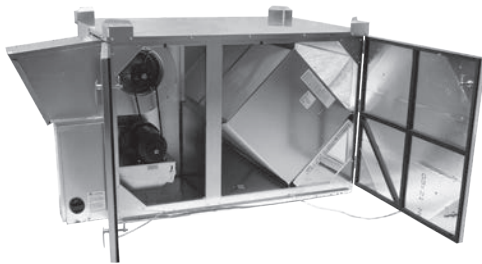
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ROOFTOP UNIT

Direct Connect



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 500-1,700 CFM

AHRI 1060 Certified Core: Two L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 4, MERV 8: (2) 20" x 20" x 2" and
 (2) 14" x 20" x 2"

Unit Dimensions & Weight:

77 1/4" L x 61" W x 50" H
 566-711 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 90" W x 50" H
 850 lbs.

Motor(s):

Qty. 2, 2.0 HP ea., Belt drive blower/standard motor
 packages with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 RTC transition kit - for vertical RTU, for horizontal RTU
 Rooftop RTC transition paint - white, custom colors
 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)
 Smoke Detector - duct mount (SD-D)

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

AIRFLOW PERFORMANCE

	Blower RPM Nominal	Sheave Adj. Turns Open	Tie-In Directly to Rooftop A/C Unit*						Unit Ducted Independently*							
			Static Pressure in Adjacent Air Handler (Inches Water Column)						External Static Pressure (Inches Water Column)							
			-0.75		-0.5		-0.25		0.0		+0.25		+0.5		+0.75	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
Exhaust Air	1450	0	1664	1.6	1785	1.9							1785	1.9	1664	1.6
	1370	1	1400	1.4	1570	1.6	1740	1.8	1900	1.9	1740	1.8	1570	1.6	1400	1.4
	1290	2	1125	1.3	1350	1.4	1575	1.5	1727	1.6	1575	1.5	1350	1.4	1125	1.3
	1210	3	945	1.0	1165	1.1	1385	1.3	1560	1.4	1385	1.3	1165	1.1	945	1.0
	1130	4	721	0.7	978	0.9	1235	1.1	1365	1.1	1235	1.1	978	0.9	721	0.7
	1050	5	560	0.7	810	0.8	1060	0.9	1200	1.0	1060	0.9	810	0.8	560	0.7
	945	6	635	0.6	765	0.6	895	0.6	1025	0.7	895	0.6	765	0.6	635	0.6
Fresh Air	1705	0									1600	2.0	1480	1.9	1360	1.7
	1610	1					1635	2.0	1555	1.9	1490	1.8	1375	1.7	1260	1.5
	1515	2	1742	2.0	1631	1.9	1520	1.7	1430	1.6	1355	1.6	1230	1.4	1105	1.3
	1420	3	1620	1.7	1515	1.6	1410	1.5	1300	1.4	1230	1.4	1115	1.2	1000	1.1
	1325	4	1465	1.5	1370	1.4	1275	1.3	1190	1.3	1120	1.2	995	1.1	870	0.9
	1230	5	1325	1.3	1245	1.2	1165	1.1	1080	1.0	985	0.9	850	0.8	715	0.6
	1090	6	1170	1.0	1085	0.9	1000	0.8	905	0.8	824	0.7	743	0.6	662	0.6

Note: Brake Horse Power (BHP) is for one blower motor package only.

Note: Operation in this zone will likely exceed FLA limits.

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

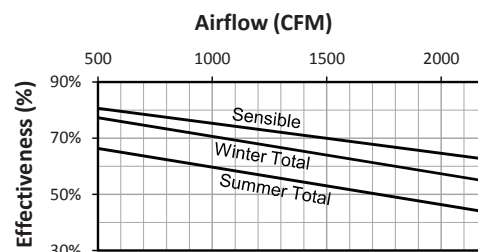
* See page 30 for installation details.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.

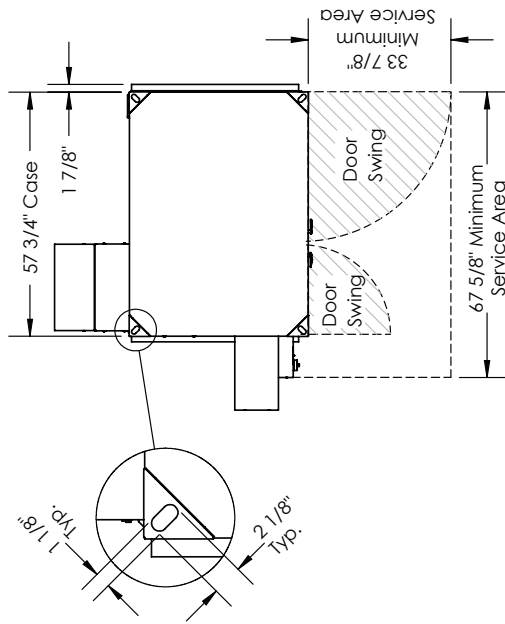
See all AHRI certified ratings at www.ahrinet.org.



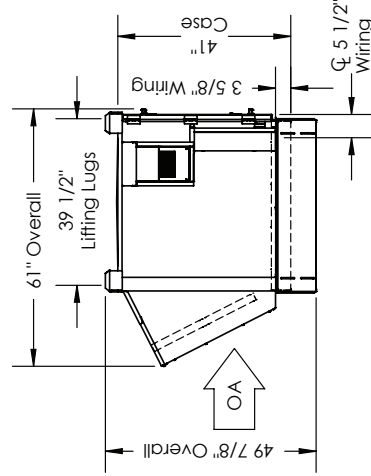
ABBREVIATION
 EA: Exhaust Air to outside
 OA: Outside Air Intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

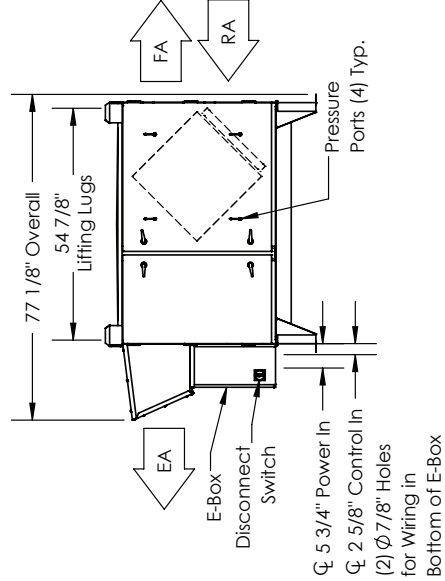
NOTE:
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



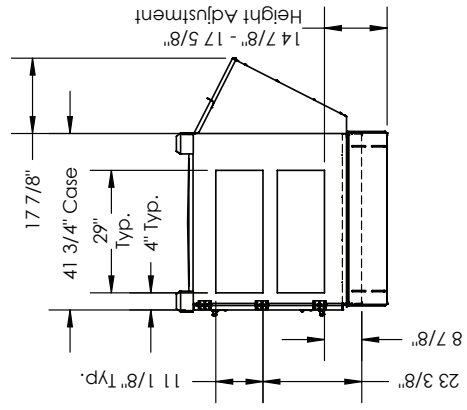
TOP VIEW



LEFT VIEW



FRONT VIEW



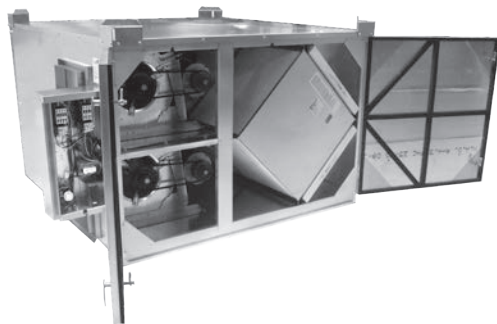
RIGHT VIEW

AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 750-3,300 CFM**AHRI 1060 Certified Core:** Three L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 6, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

72 1/2" L x 63 1/4" W x 44" H
628-934 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 70" W x 50" H
1,029 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1189	4	2185	1.0	2095	0.9	1900	0.8	1580	0.6	800	0.4				
	1329	2	2440	1.4	2360	1.3	2220	1.2	2020	1.0	1640	0.8	850	0.4		
	1470	0	2700	1.9	2640	1.8	2520	1.6	2360	1.5	2150	1.8	1770	1.0	1110	0.6
3.0	1496	3	2905	2.4	2815	2.3	2675	2.1	2505	1.9	2340	1.8	2220	1.6	1655	1.2
	1560	2	3030	2.7	2945	2.6	2825	2.5	2655	2.3	2445	2.1	2325	1.9	1990	1.6
	1656	0.5					3040	3.0	2875	2.8	2720	2.6	2575	2.4	2380	2.2
	1688	0							2950	2.9	2800	2.8	2650	2.6	2490	3.0
5.0	1686	3	3300	3.5	3225	3.4	3015	3.2	2855	3.0	2800	2.8	2645	2.6	2470	2.4
	1764	1.5					3290	3.8	3145	3.5	2995	3.3	2850	3.1	2705	2.9
	1843	0							3300	4.1	3175	3.8	3040	3.6	2900	3.4

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

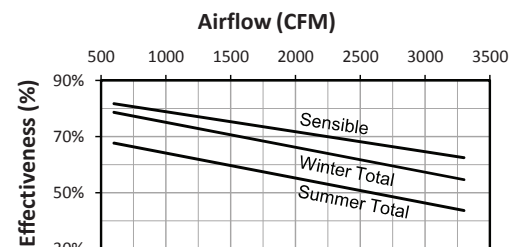
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

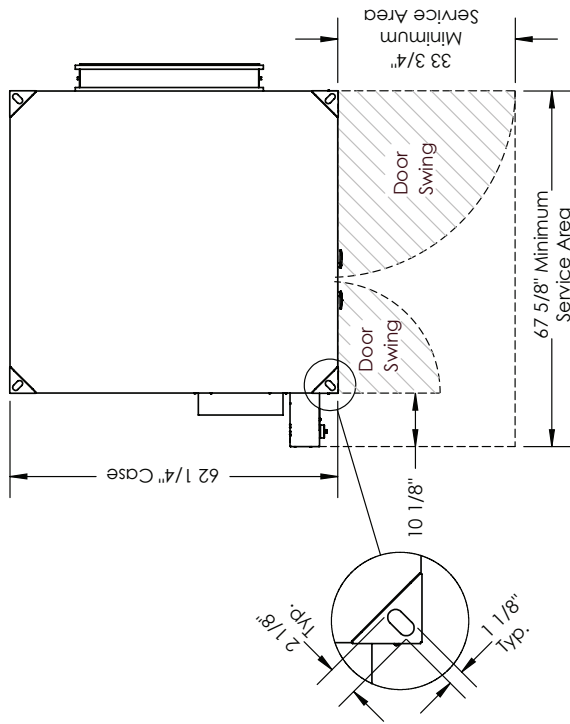
Specifications may be subject to change without notice.

CORE PERFORMANCE

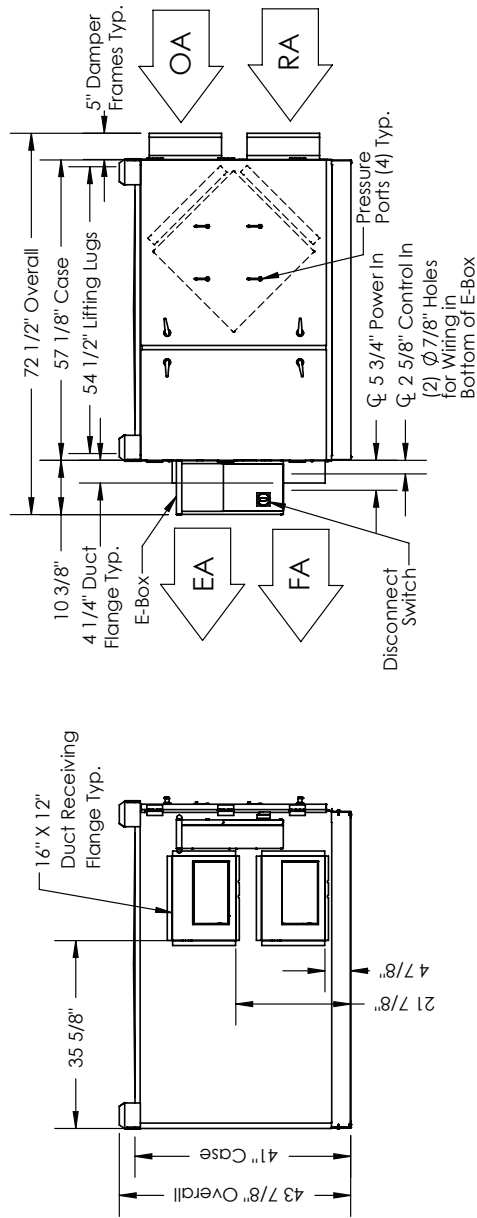


At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

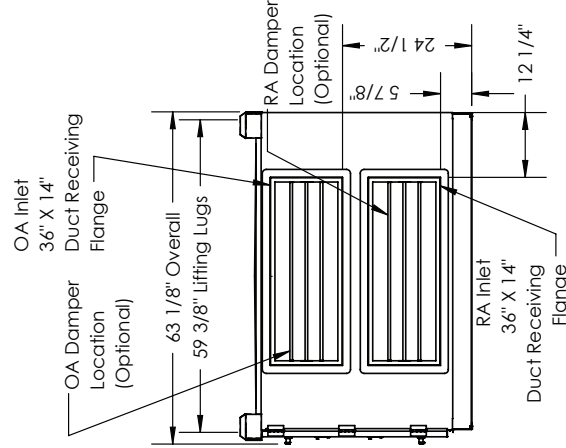


TOP VIEW



LEFT VIEW

FRONT VIEW



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 must be installed in orientation shown.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

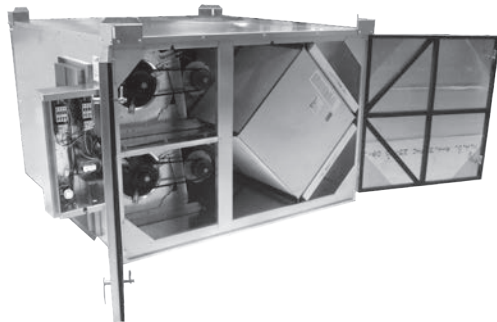
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 750-3,300 CFM**AHRI 1060 Certified Core:** Three L125-G5**Standard Features:**

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 6, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

72 1/2" L x 63 1/4" W x 44" H
 628-934 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 70" W x 50" H
 1,029 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) - one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls - enhanced, premium
 Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms - both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1189	4	2185	1.0	2095	0.9	1900	0.8	1580	0.6	800	0.4				
	1329	2	2440	1.4	2360	1.3	2220	1.2	2020	1.0	1640	0.8	850	0.4		
	1470	0	2700	1.9	2640	1.8	2520	1.6	2360	1.5	2150	1.8	1770	1.0	1110	0.6
3.0	1496	3	2905	2.4	2815	2.3	2675	2.1	2505	1.9	2340	1.8	2220	1.6	1655	1.2
	1560	2	3030	2.7	2945	2.6	2825	2.5	2655	2.3	2445	2.1	2325	1.9	1990	1.6
	1656	0.5					3040	3.0	2875	2.8	2720	2.6	2575	2.4	2380	2.2
	1688	0							2950	2.9	2800	2.8	2650	2.6	2490	3.0
5.0	1686	3	3300	3.5	3225	3.4	3015	3.2	2855	3.0	2800	2.8	2645	2.6	2470	2.4
	1764	1.5					3290	3.8	3145	3.5	2995	3.3	2850	3.1	2705	2.9
	1843	0							3300	4.1	3175	3.8	3040	3.6	2900	3.4

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

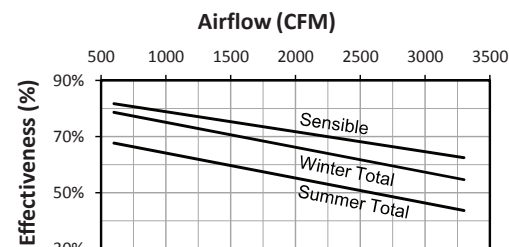
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

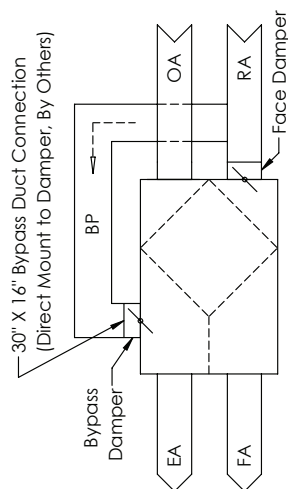
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

Specifications may be subject to change without notice.

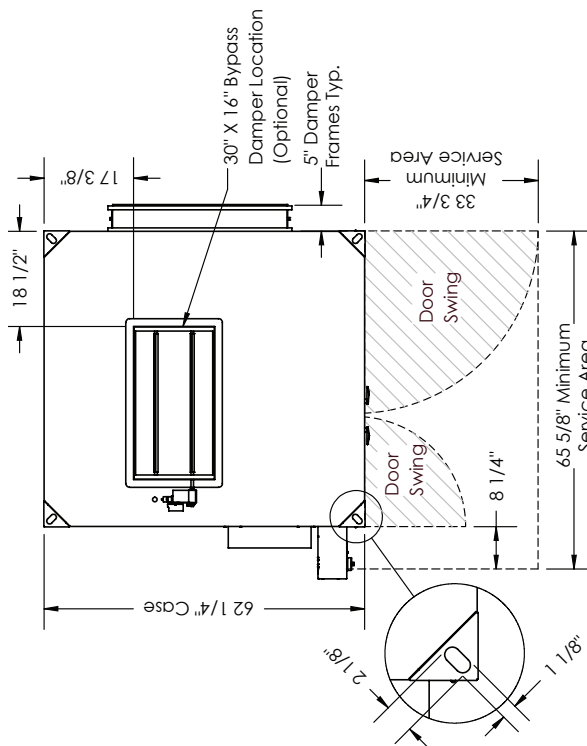
CORE PERFORMANCE



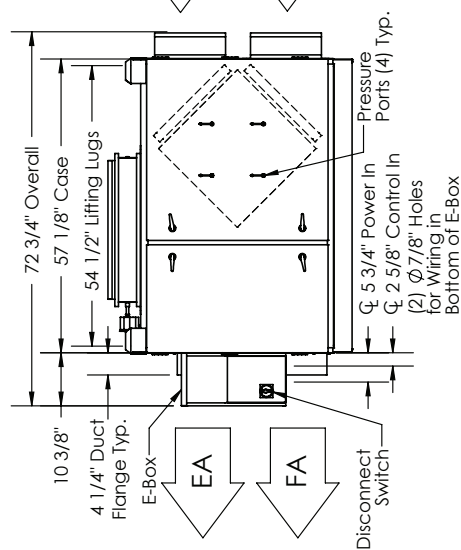
At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.



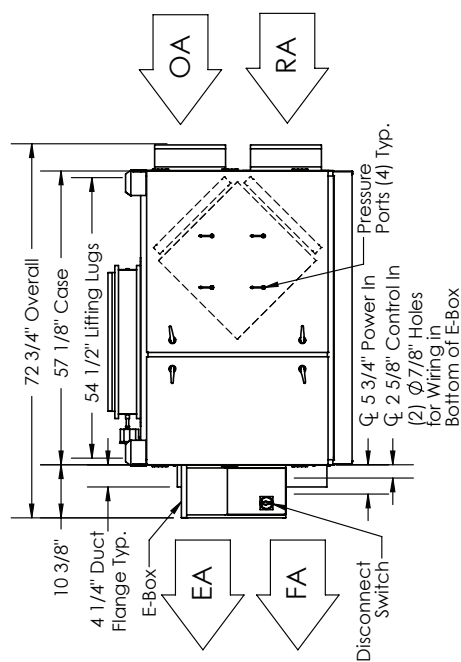
**BYPASS AIRFLOW SCHEMATIC
FRONT VIEW**



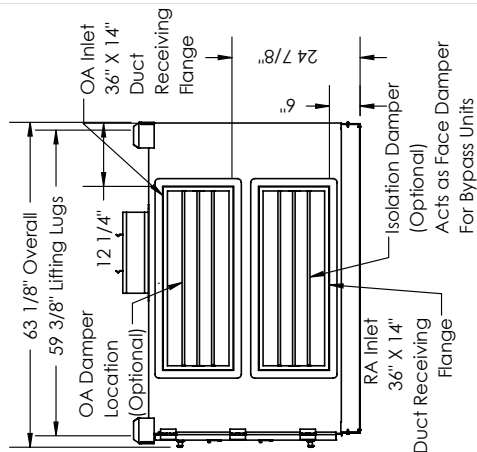
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ABBREVIATIONS

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

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 750-3,300 CFM**AHRI 1060 Certified Core:** Three L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 6, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 3/4" L x 61 1/2" W x 62" H

590-999 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

60" L x 90" W x 70" H

1,094 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control - wall mount (C02-W), duct mount (C02-D)
IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1195	4	2185	0.8	2000	0.7	1725	0.5	1210	0.4						
	1355	2	2440	1.1	2270	0.9	2060	0.8	1715	0.6	1210	0.5				
	1476	0	2700	1.5	2550	1.3	2380	1.2	2150	1.0	1750	0.8	1300	0.6		
3.0	1536	2.5	2810	2.1	2700	2.1	2560	1.9	2370	1.8	2140	1.6	1840	1.5	1420	1.1
	1632	1.5	2985	2.5	2880	2.4	2760	2.3	2590	2.2	2400	2.0	2145	1.8	1855	1.6
	1696	0.5	3100	2.8	3000	2.7	2900	2.7	2735	2.5	2505	2.3	2335	2.1	2065	1.9
	1728	0	3160	3.0	3055	2.9	2960	2.8	2800	2.6	2635	2.5	2425	2.3	2165	2.1
5.0	1749	2	3300	3.3	3200	3.1	3020	2.8	2860	2.6	2660	2.3	2440	2.1	2200	1.8
	1801	1			3300	3.4	3140	3.1	2980	2.8	2800	2.6	2585	2.8	2350	2.1
	1853	0					3245	3.4	3090	3.1	2920	2.9	2715	2.6	2500	2.4

Note: Brake Horse Power (BHP) is for one blower motor package only.

Operation in this zone outside of core airflow limits.

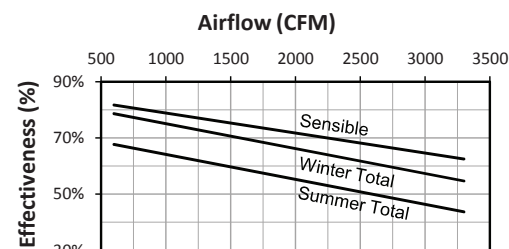
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	16.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	28.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

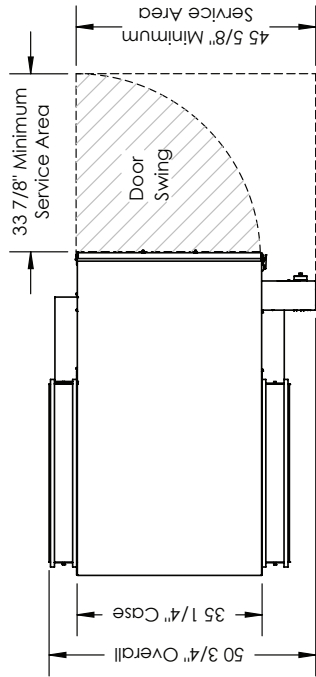
Specifications may be subject to change without notice.

CORE PERFORMANCE

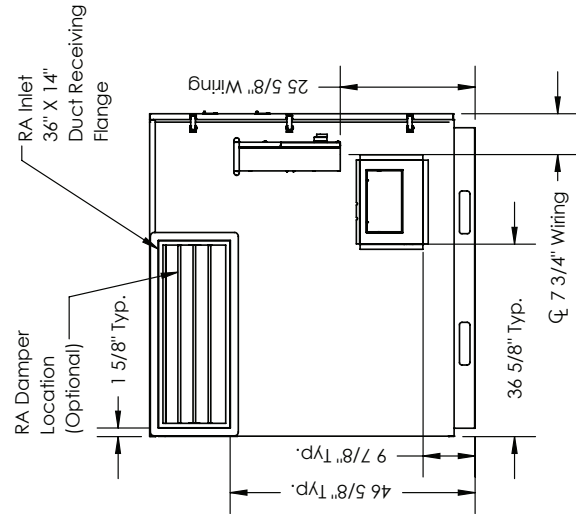


At AHRI 1060 standard conditions.

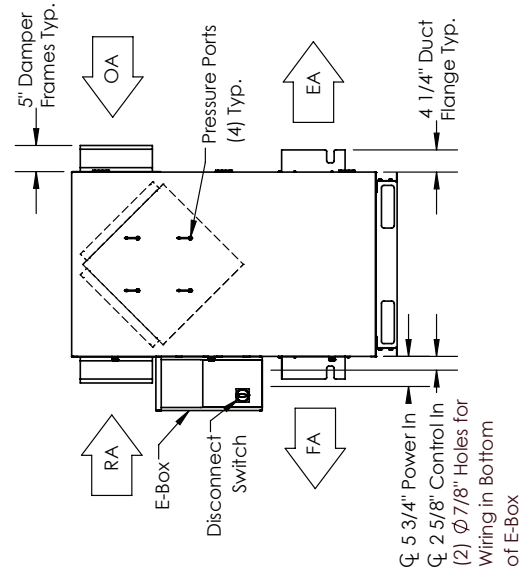
See all AHRI certified ratings at www.ahrinet.org.



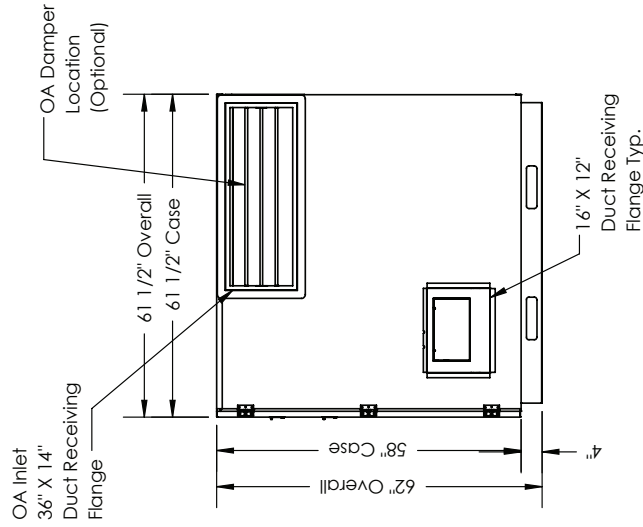
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

ABBREVIATION

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

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE:

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 750-3,300 CFM**AHRI 1060 Certified Core:** Three L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 6, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 3/4" L x 61 1/2" W x 62" H
590-999 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

60" L x 90" W x 70" H
1,094 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1195	4	2185	0.8	2000	0.7	1725	0.5	1210	0.4						
	1355	2	2440	1.1	2270	0.9	2060	0.8	1715	0.6	1210	0.5				
	1476	0	2700	1.5	2550	1.3	2380	1.2	2150	1.0	1750	0.8	1300	0.6		
3.0	1536	2.5	2810	2.1	2700	2.1	2560	1.9	2370	1.8	2140	1.6	1840	1.5	1420	1.1
	1632	1.5	2985	2.5	2880	2.4	2760	2.3	2590	2.2	2400	2.0	2145	1.8	1855	1.6
	1696	0.5	3100	2.8	3000	2.7	2900	2.7	2735	2.5	2505	2.3	2335	2.1	2065	1.9
	1728	0	3160	3.0	3055	2.9	2960	2.8	2800	2.6	2635	2.5	2425	2.3	2165	2.1
5.0	1749	2	3300	3.3	3200	3.1	3020	2.8	2860	2.6	2660	2.3	2440	2.1	2200	1.8
	1801	1			3300	3.4	3140	3.1	2980	2.8	2800	2.6	2585	2.8	2350	2.1
	1853	0					3245	3.4	3090	3.1	2920	2.9	2715	2.6	2500	2.4

Note: Brake Horse Power (BHP) is for one blower motor package only.

Operation in this zone outside of core airflow limits.

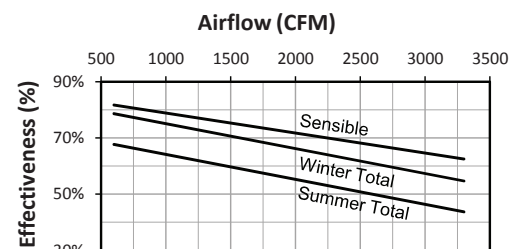
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	16.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	28.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

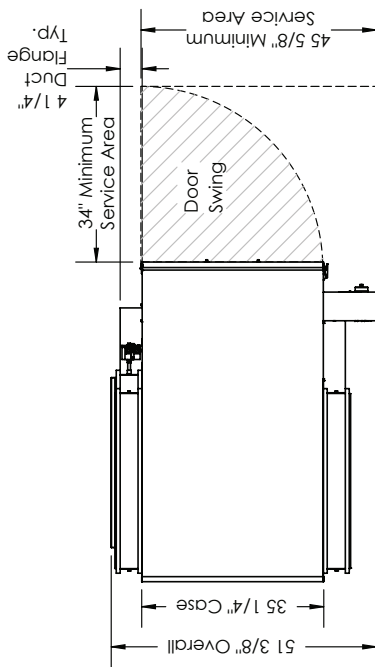
Specifications may be subject to change without notice.

CORE PERFORMANCE

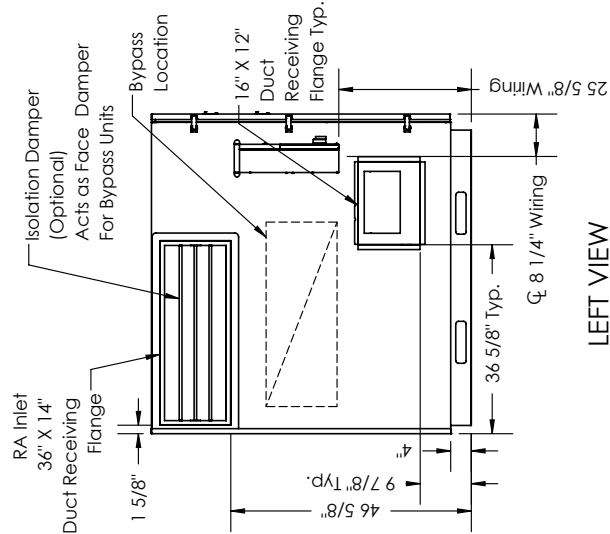


At AHRI 1060 standard conditions.

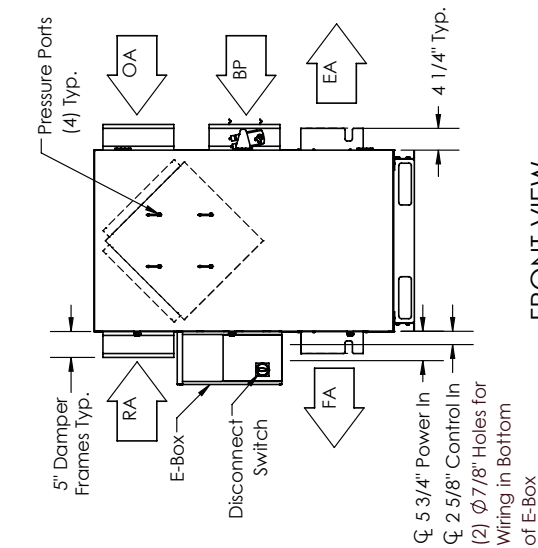
See all AHRI certified ratings at www.ahrinet.org.



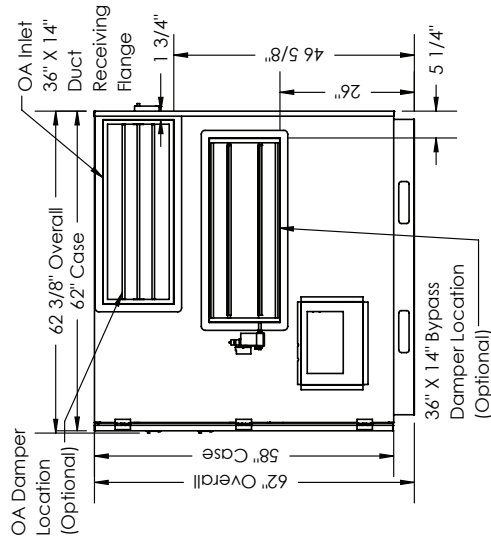
TOP VIEW



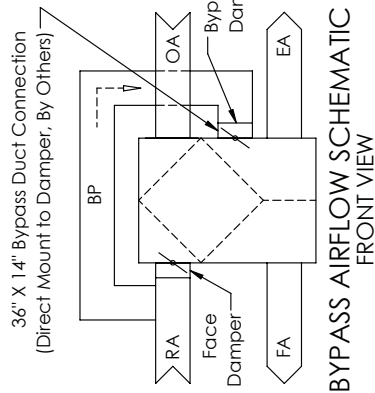
LEFT VIEW



FRONT VIEW



RIGHT VIEW



BYPASS AIRFLOW SCHEMATIC
FRONT VIEW

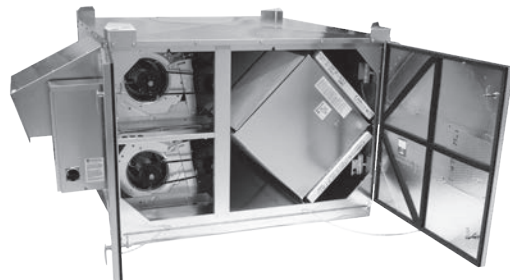
- ABBREVIATIONS**
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 BP: Bypass Air intake
- INSTALLATION ORIENTATION**
 Unit must be installed in orientation shown.
- NOTE**
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
 4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
 5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.



ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 750-3,300 CFM

AHRI 1060 Certified Core: Three L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 6, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

94" L x 63 1/4" W x 44" H
 656-972 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 70" W x 67" H
 1,067 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1207	4	2130	1.0	1940	0.8	1695	0.6	1340	0.4						
	1347	2	2380	1.4	2210	1.2	2005	1.0	1725	0.8	1365	0.5				
	1488	0	2630	1.9	2470	1.6	2300	1.4	2100	1.2	1800	0.9	1435	0.7	820	0.4
3.0	1533	3	2790	2.5	2660	2.3	2500	2.1	2290	1.8	2040	1.6	1765	1.3	1265	1.0
	1597	2	2905	2.8	2785	2.6	2630	2.4	2340	2.1	2200	1.9	1955	1.6	1640	1.3
	1661	0.5			2810	3.0	2760	2.7	2585	2.5	2365	2.2	2140	1.9	1890	1.6
	1692	0					2820	2.9	2665	2.7	2450	2.4	2220	2.1	1980	1.8
5.0	1686	3	3110	3.5	3000	3.2	2890	3.0	2730	2.7	2520	2.4	2295	2.1	2000	1.8
	1764	1.5	3255	4.0	3150	3.7	3045	3.5	2905	3.2	2720	2.9	2520	2.5	2270	2.2
	1843	0			3300	4.2	3200	4.0	3075	3.7	2910	3.4	2715	3.0	2500	2.7

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

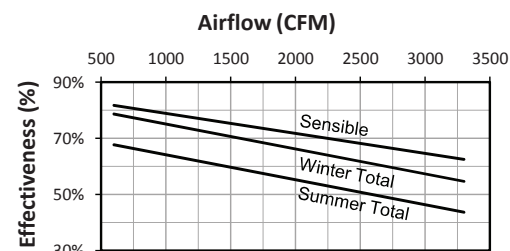
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

Specifications may be subject to change without notice.

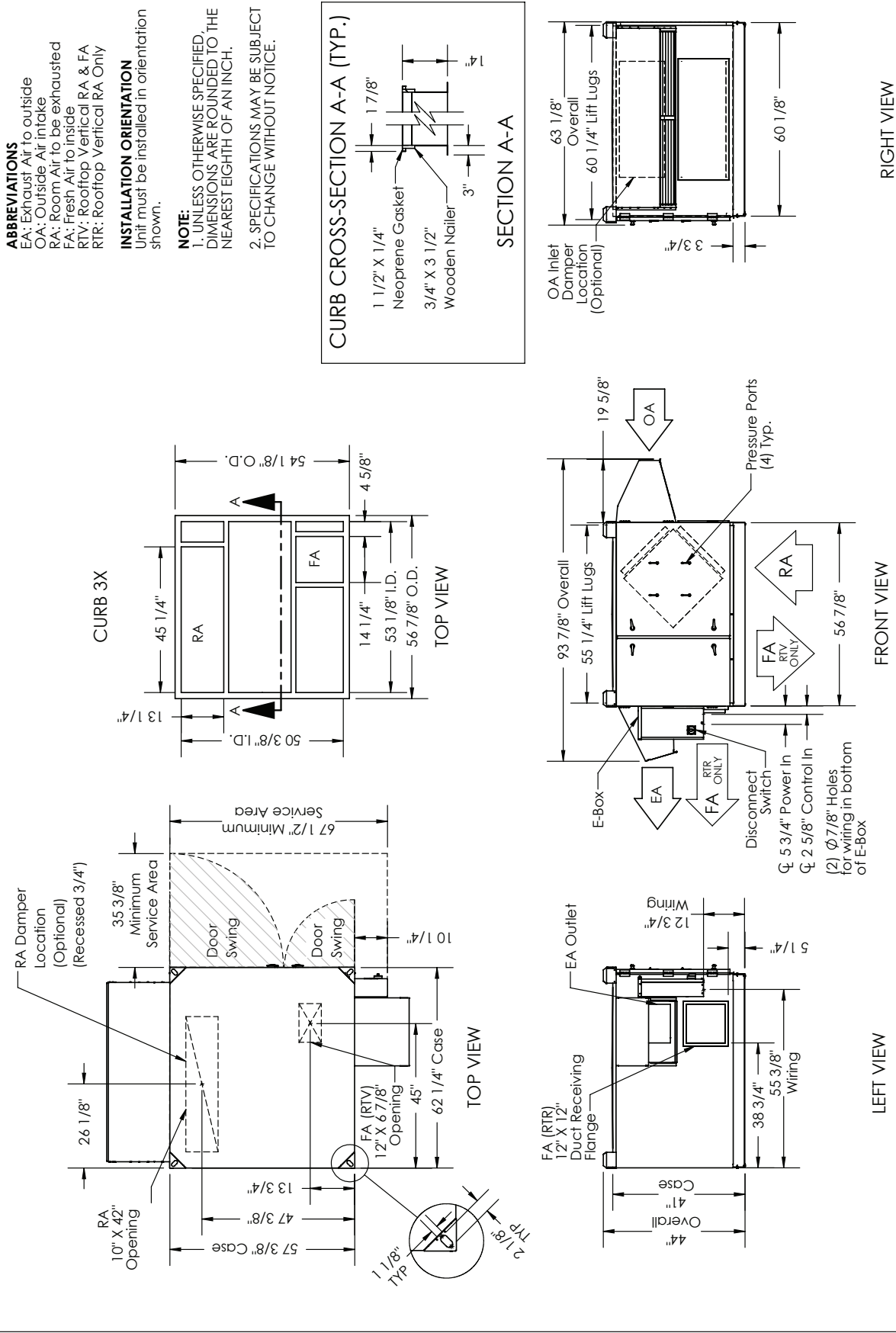
CORE PERFORMANCE

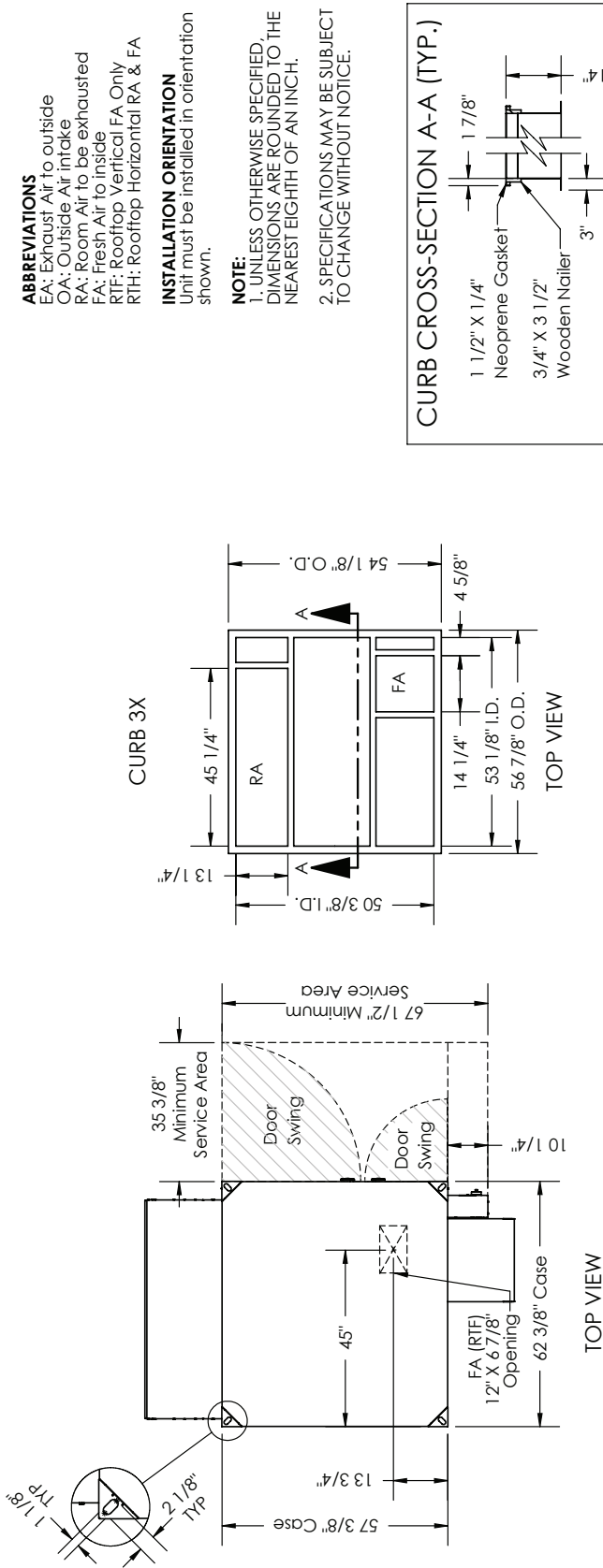


At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

HE3XRT (RTV/RTR) Energy Recovery Ventilator Standard





ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RTF: Rooftop Vertical FA Only
RTH: Rooftop Horizontal RA & FA

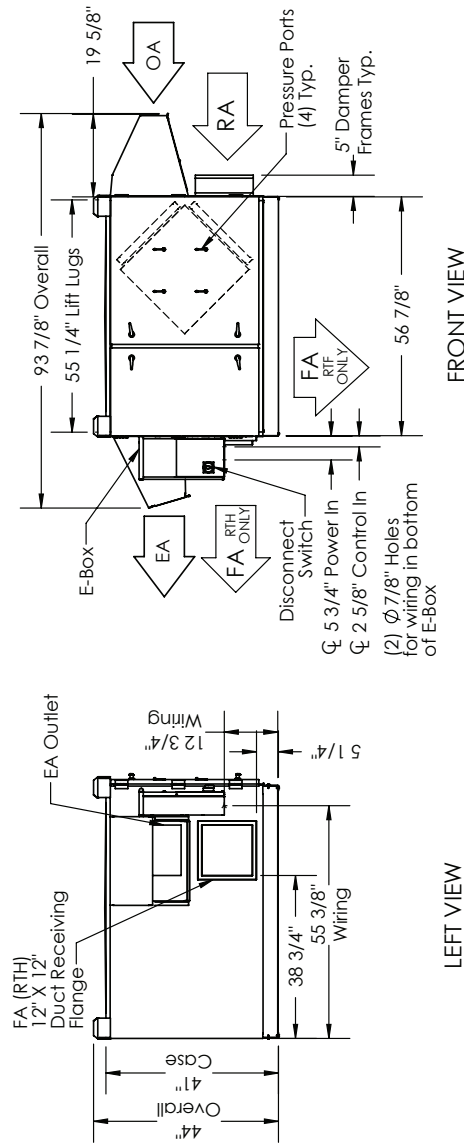
INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE:

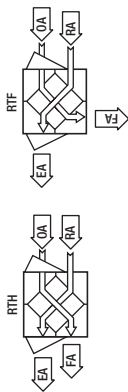
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



AIRFLOW CONFIGURATION

Available as shown:



UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.

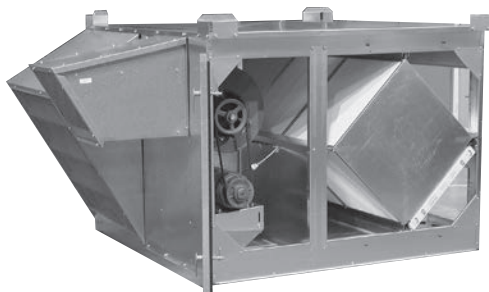


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HE 3XRTC

ROOFTOP UNIT Direct Connect



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,100-2,400 CFM

AHRI 1060 Certified Core: Three L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 5, MERV 8: (3) 20" x 20" x 2" and
(2) 16" x 25" x 2"

Unit Dimensions & Weight:

81 1/4" L x 63 1/2" W x 48 1/4" H
713-1,084 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 90" W x 80" H
1,225 lbs.

Motor(s):

Qty. 2, 3.0 HP ea., Belt drive blower/standard motor
packages with adjustable sheaves

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
RTC transition kit - for vertical RTU, for horizontal RTU
Rooftop RTC transition paint - white, custom colors
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)
Smoke Detector - duct mount (SD-D)

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

AIRFLOW PERFORMANCE

	Blower RPM Nominal	Sheave Adj. Turns Open	Tie-In Directly to Rooftop A/C Unit*						Unit Ducted Indirectly*							
			Static Pressure in Adjacent Air Handler (Inches Water Column)						External Static Pressure (Inches Water Column)							
			-0.75		-0.5		-0.25		0.0		+0.25		+0.5		+0.75	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
Exhaust Air	1510	0	2010	2.7											2010	2.7
	1465	1	1920	2.3	2130	2.9							2130	2.9	1920	2.3
	1420	2	1830	1.9	2035	2.5	2240	3.0			2240	3.0	2035	2.5	1830	1.9
	1375	3	1750	1.1	1945	1.9	2140	2.6	2400	2.7	2140	2.6	1945	1.9	1750	1.1
	1330	4	1690	1.0	1860	1.5	2030	1.9	2330	2.6	2030	1.9	1860	1.5	1690	1.0
	1285	5	1510	0.9	1725	1.0	1940	1.1	2250	2.1	1940	1.1	1725	1.0	1510	0.9
	1240	6	1320	0.8	1590	0.5	1860	0.3	2165	1.5	1860	0.3	1590	0.5	1320	0.8
Fresh Air	1825	0							2250	2.9	2100	2.5	1865	2.3	1630	2.1
	1770	1			2525	3.0	2338	2.7	2195	2.6	2025	2.3	1785	2.1	1545	1.8
	1715	2	2605	2.7	2430	2.6	2255	2.4	2120	2.3	1960	2.0	1700	1.2	1440	1.4
	1660	3	2515	2.4	2345	2.2	2175	1.9	2050	1.8	1900	1.6	1620	0.6	1340	1.0
	1605	4	2430	2.2	2270	1.8	2110	1.3	1980	1.3	1830	1.3	1560	0.4	1290	0.5
	1550	5	2355	1.2	2185	1.1	2015	1.0	1900	0.6	1765	0.4	1540	0.3	1200	0.4
	1495	6	2230	0.8	2090	0.7	1950	0.5	1840	0.4	1730	0.3	1500	0.2	1100	0.2

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

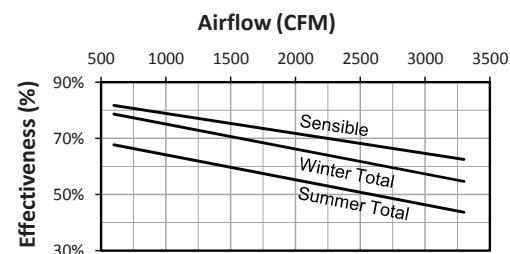
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

* See page 38 for installation details.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15

CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

ABBREVIATIONS

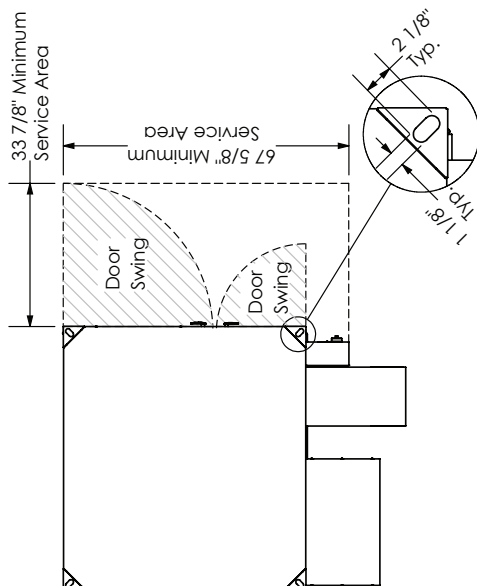
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

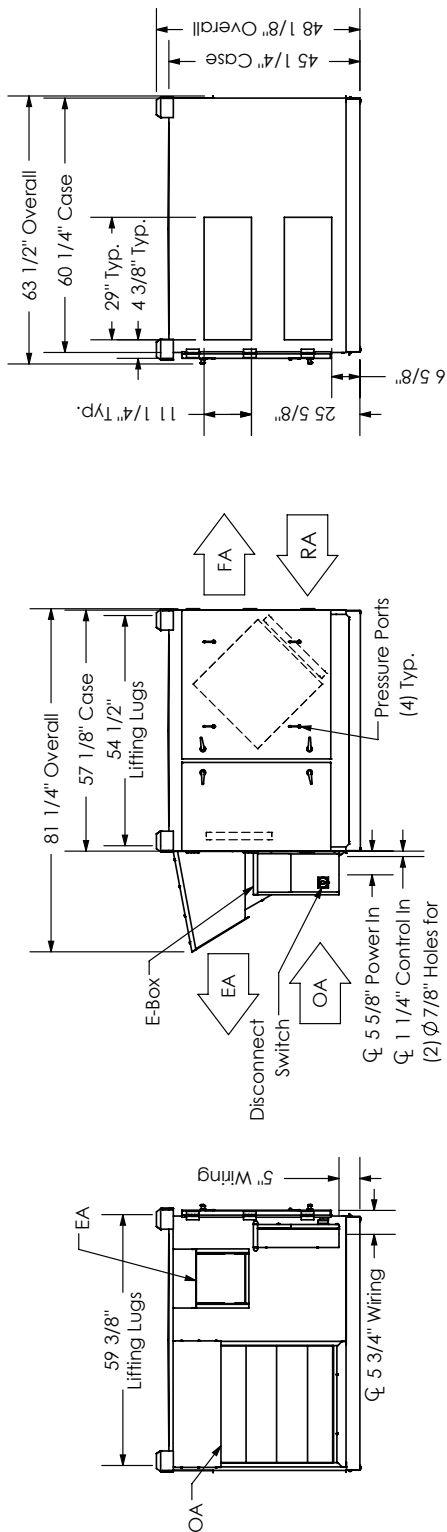
Unit must be installed in orientation shown.

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

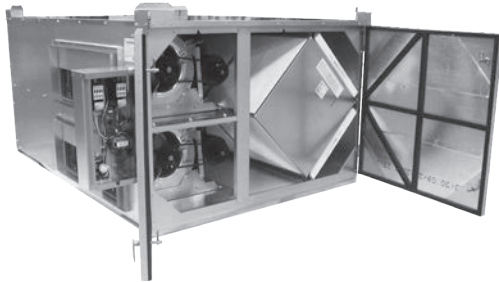
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

72 3/4" L x 82 3/4" W x 44" H
723-1,092 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
80" L x 90" W x 50" H
1,228 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2	1187	4	3215	1.5	2990	1.4	2535	1.2	2120	0.9	1360	0.7				
	1290	2.5	3505	2.0	3300	1.9	3000	1.7	2610	1.4	2060	1.1	1180	0.6		
	1358	1.5					3220	2.0	2885	1.8	2415	1.4	1790	1.1		
	1462	0									2900	2.0	2400	1.6	1730	1.2
3	1448	4	3945	2.9	3765	2.8	3515	2.4	3200	2.1	2845	1.9	2310	1.5	1670	1.2
	1520	3					3740	2.9	3475	2.6	3145	2.3	2695	2.0	2165	1.6
	1591	2									3415	2.8	3050	2.4	2580	2.1
	1663	1											3380	3.0	2930	2.5
	1735	0													3300	3.0
5	1591	4	4335	3.8	4185	4.0	3965	3.4	3710	3.1	3410	2.8	3050	2.5	2580	2.1
	1696	2					4280	4.1	4060	3.9	3800	3.5	3510	3.2	3100	2.8
	1800	0							4395	4.7	4165	4.3	3900	4.0	3600	3.7

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

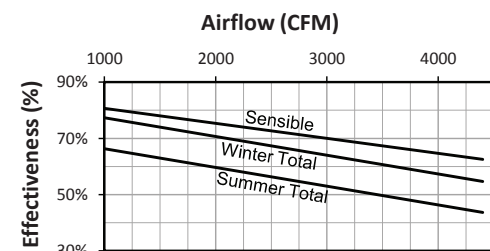
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

ABBREVIATIONS

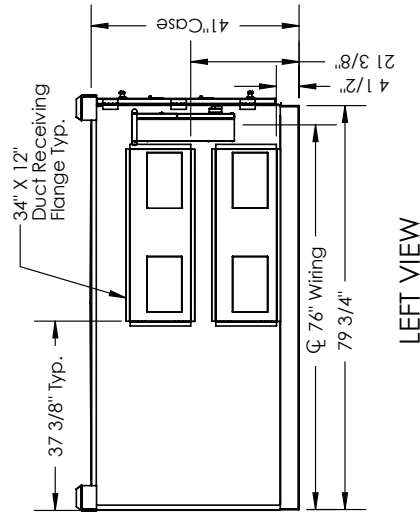
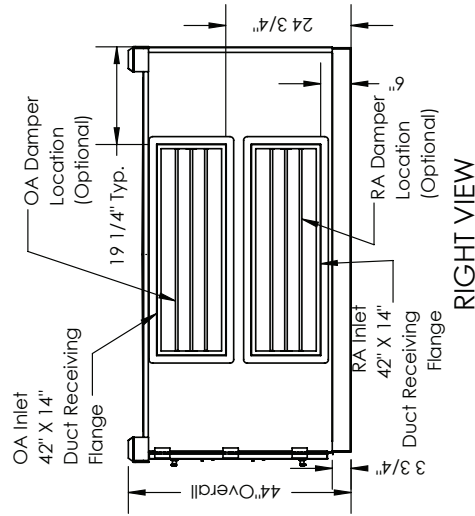
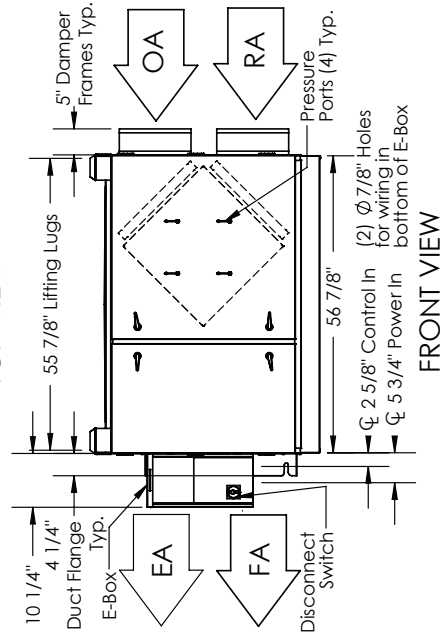
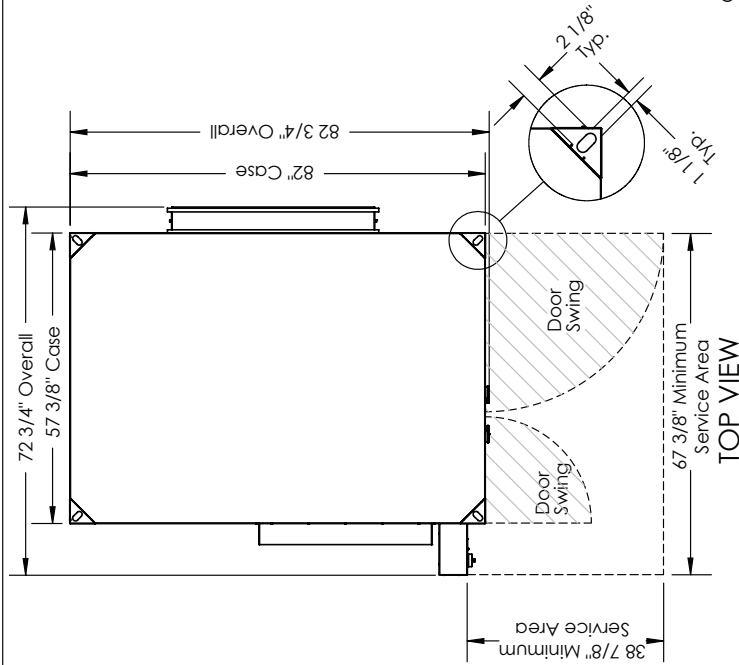
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

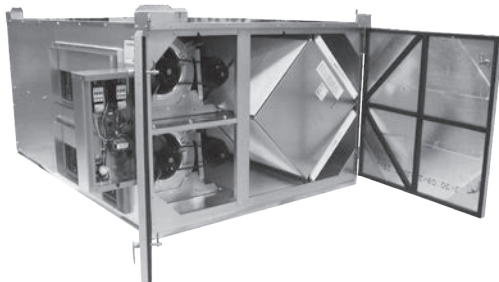
UNIT MOUNTING & APPLICATION

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

72 3/4" L x 82 3/4" W x 44" H
723-1,092 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 90" W x 50" H
1,228 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2	1187	4	3215	1.5	2990	1.4	2535	1.2	2120	0.9	1360	0.7				
	1290	2.5	3505	2.0	3300	1.9	3000	1.7	2610	1.4	2060	1.1	1180	0.6		
	1358	1.5					3220	2.0	2885	1.8	2415	1.4	1790	1.1		
	1462	0									2900	2.0	2400	1.6	1730	1.2
3	1448	4	3945	2.9	3765	2.8	3515	2.4	3200	2.1	2845	1.9	2310	1.5	1670	1.2
	1520	3					3740	2.9	3475	2.6	3145	2.3	2695	2.0	2165	1.6
	1591	2									3415	2.8	3050	2.4	2580	2.1
	1663	1											3380	3.0	2930	2.5
	1735	0													3300	3.0
5	1591	4	4335	3.8	4185	4.0	3965	3.4	3710	3.1	3410	2.8	3050	2.5	2580	2.1
	1696	2					4280	4.1	4060	3.9	3800	3.5	3510	3.2	3100	2.8
	1800	0							4395	4.7	4165	4.3	3900	4.0	3600	3.7

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

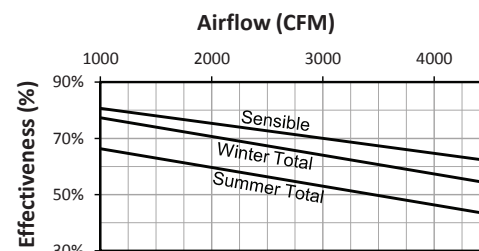
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

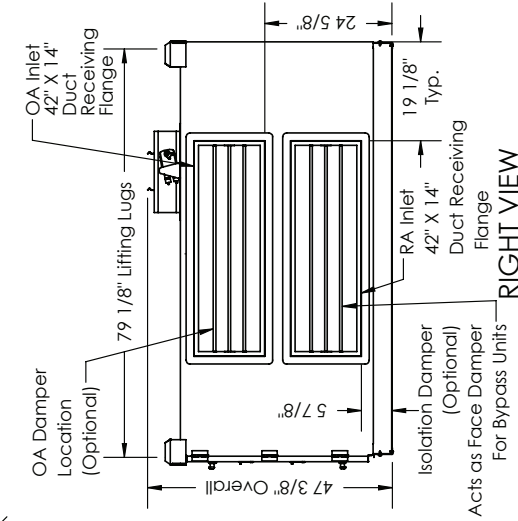
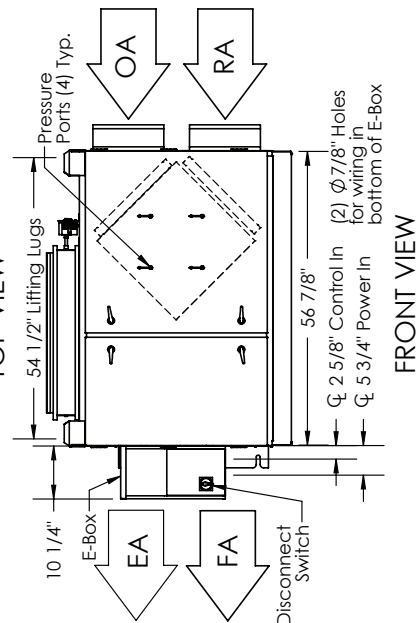
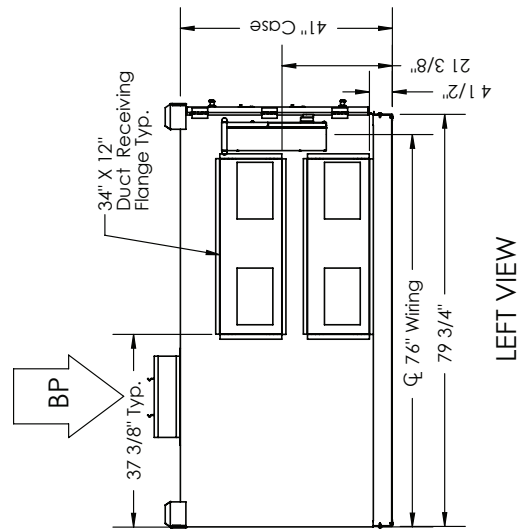
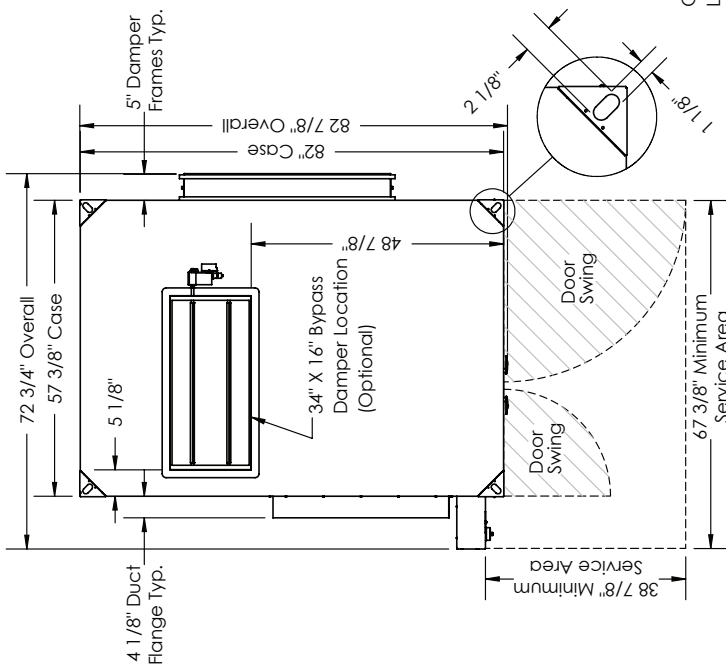
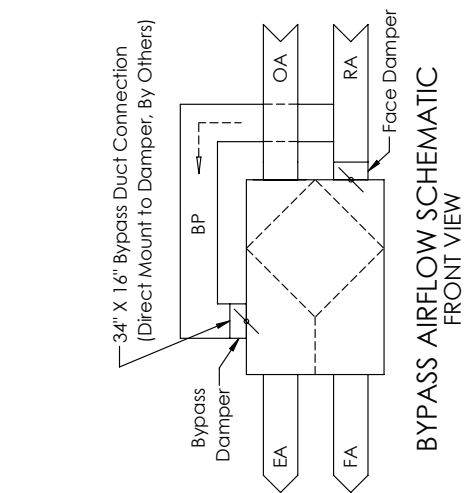
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.



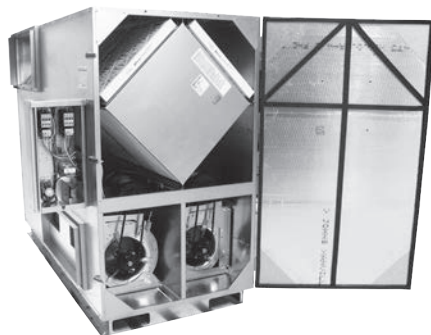
- ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake
- INSTALLATION ORIENTATION**
Unit must be installed in orientation shown.
- NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 3/4" L x 81 1/2" W x 62" H
753-1,196 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

60" L x 90" W x 70" H
1,332 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)															
			0.00		0.25		0.50		0.75		1.00		1.25		1.50			
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1191	4	3330	1.4	3015	1.2	2690	1.0	1915	0.8	1085	0.6						
	1329	2	3715	1.9	3440	1.7	3100	1.5	2485	1.3	2000	1.0	1200	0.8				
	1432	0.5	4000	2.4	3740	2.2	3480	2.0	3050	1.7	2490	1.5	1900	1.2	1100	0.9		
	1466	0							3200	1.9	2650	1.6	2120	1.3	1385	1.1		
3.0	1462	3	4060	2.6	3810	2.4	3550	2.1	3180	1.9	2645	1.6	2075	1.3	1345	1.0		
	1503	2.5	4175	2.8	3940	2.6	3700	2.4	3340	2.1	2885	1.7	2300	1.5	1600	1.2		
	1586	1.5					3950	2.8	3640	2.5	3250	2.3	2745	2.0	2170	1.7		
	1668	0.5							3900	3.0	3600	2.7	3155	2.4	2640	2.1		
	1710	0									3750	3.0	3350	2.7	2975	2.4		
5.0	1627	4	4393	3.9	4210	3.7	4050	3.6	3800	3.3	3490	3.1	3020	2.7	2385	2.4		
	1731	2					4350	4.3	4150	4.1	3895	3.8	3515	3.5	3055	3.2		
	1836	0							4400	5.0	4250	4.7	3970	4.4	3550	4.0		

Note: Brake Horse Power (BHP) is for one blower motor package only.

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

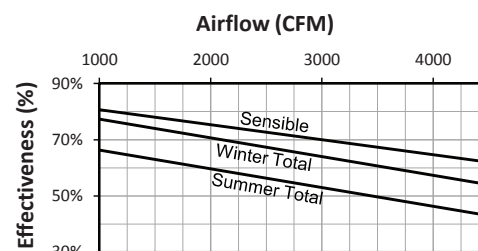
Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

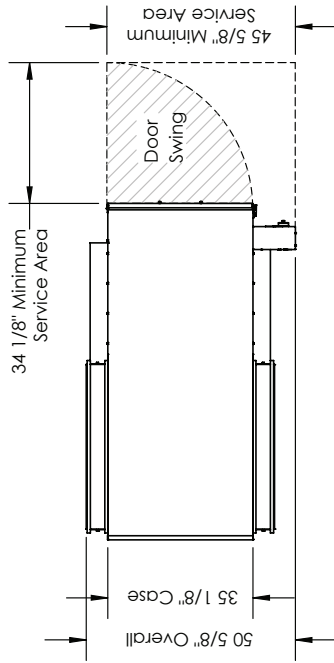
Specifications may be subject to change without notice.

CORE PERFORMANCE

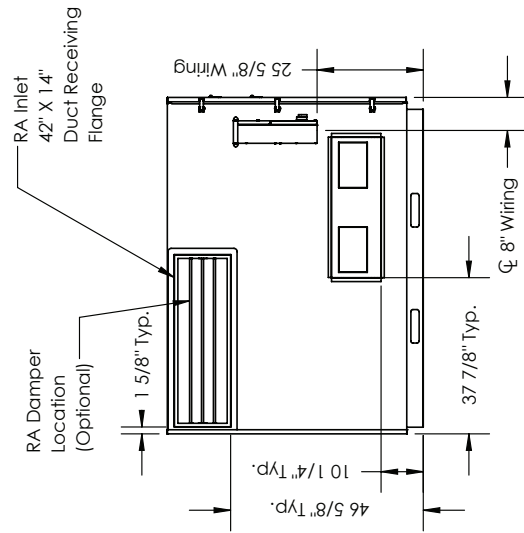


At AHRI 1060 standard conditions.

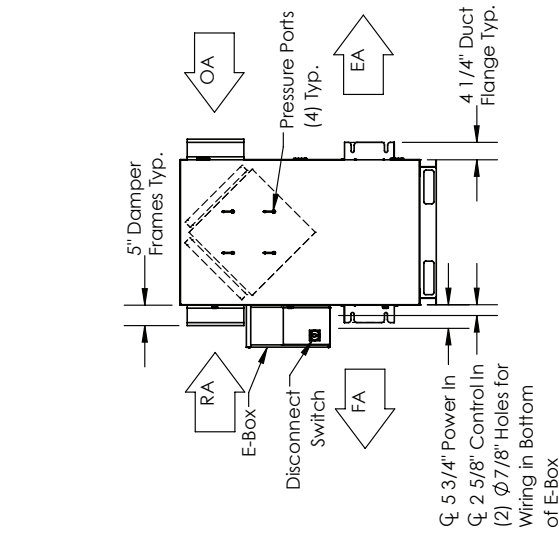
See all AHRI certified ratings at www.ahrinet.org.



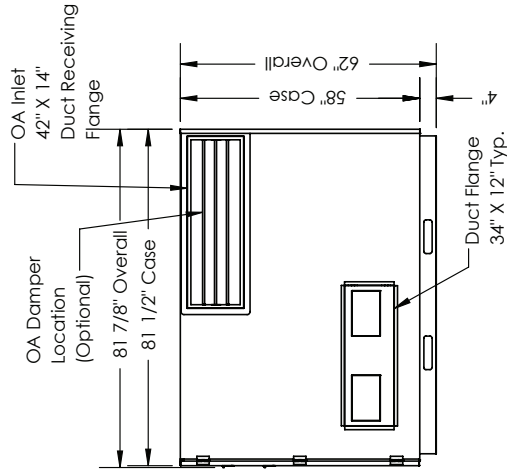
TOP VIEW



LEFT VIEW



FRONT VIEW



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 must be installed in orientation shown.

NOTE

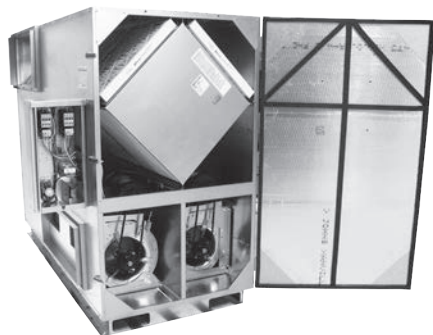
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator

Standard with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM**AHRI 1060 Certified Core:** Four L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

50 3/4" L x 81 1/2" W x 62" H
753-1,196 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

60" L x 90" W x 70" H
1,332 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)															
			0.00		0.25		0.50		0.75		1.00		1.25		1.50			
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1191	4	3330	1.4	3015	1.2	2690	1.0	1915	0.8	1085	0.6						
	1329	2	3715	1.9	3440	1.7	3100	1.5	2485	1.3	2000	1.0	1200	0.8				
	1432	0.5	4000	2.4	3740	2.2	3480	2.0	3050	1.7	2490	1.5	1900	1.2	1100	0.9		
	1466	0							3200	1.9	2650	1.6	2120	1.3	1385	1.1		
3.0	1462	3	4060	2.6	3810	2.4	3550	2.1	3180	1.9	2645	1.6	2075	1.3	1345	1.0		
	1503	2.5	4175	2.8	3940	2.6	3700	2.4	3340	2.1	2885	1.7	2300	1.5	1600	1.2		
	1586	1.5					3950	2.8	3640	2.5	3250	2.3	2745	2.0	2170	1.7		
	1668	0.5							3900	3.0	3600	2.7	3155	2.4	2640	2.1		
	1710	0									3750	3.0	3350	2.7	2975	2.4		
5.0	1627	4	4393	3.9	4210	3.7	4050	3.6	3800	3.3	3490	3.1	3020	2.7	2385	2.4		
	1731	2					4350	4.3	4150	4.1	3895	3.8	3515	3.5	3055	3.2		
	1836	0							4400	5.0	4250	4.7	3970	4.4	3550	4.0		

Note: Brake Horse Power (BHP) is for one blower motor package only.

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

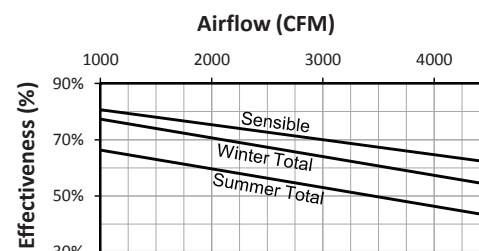
Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.2	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

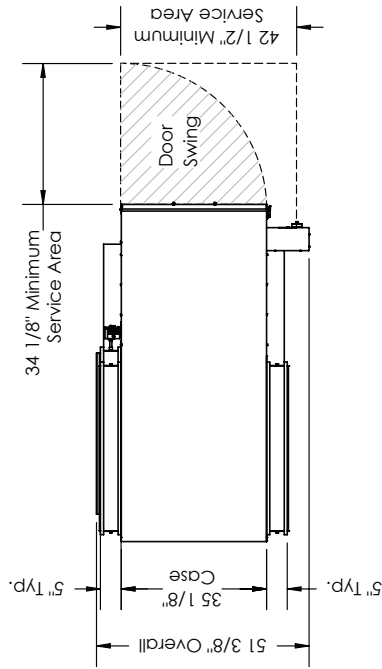
Specifications may be subject to change without notice.

CORE PERFORMANCE

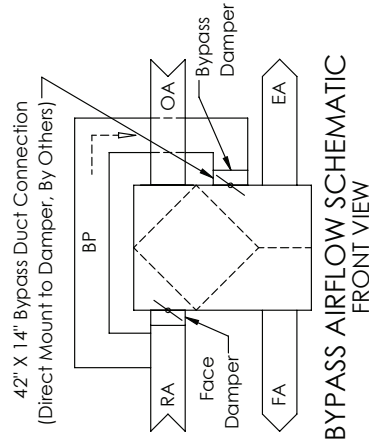


At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.



TOP VIEW



BYPASS AIRFLOW SCHEMATIC
FRONT VIEW

ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

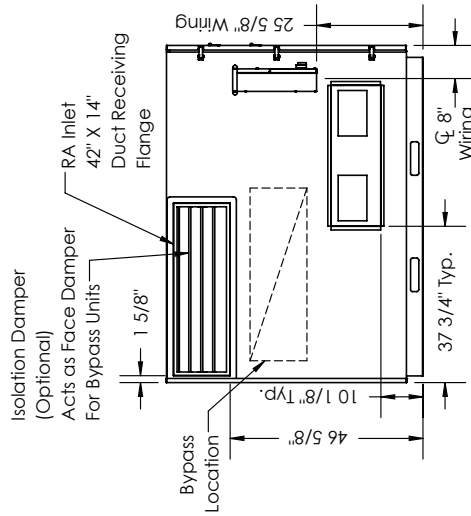
NOTE

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

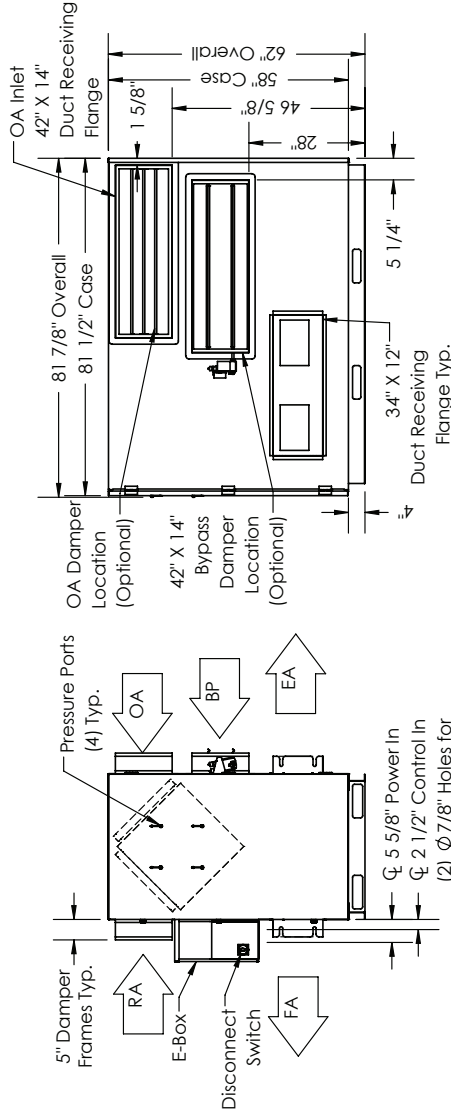
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).

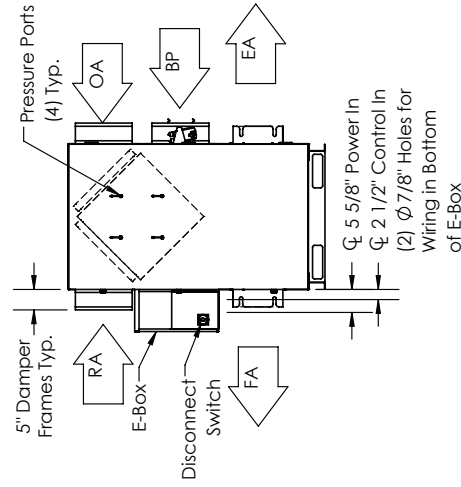
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.



LEFT VIEW



RIGHT VIEW



FRONT VIEW

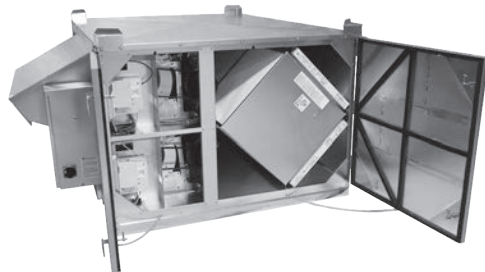
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.





ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM**AHRI 1060 Certified Core:** Four L125-G5**Standard Features:**

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

94" L x 83" W x 44" H
 845-1,143 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 90" W x 67" H
 1,279 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)													
			0.00		0.25		0.50		0.75		1.00		1.25		1.50	
			SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
2.0	1186	4	3099	1.5	2790	1.3	2295	1.1	1790	0.8	1150	0.6				
	1326	2	3465	2.2	3185	1.9	2810	1.7	2335	1.4	1885	1.2	1290	0.9		
	1466	0									2451	1.8	2026	1.5	1485	1.2
3.0	1455	4	3812	2.7	3550	2.5	3285	2.3	2820	2.0	2400	1.7	1970	1.5	1450	1.2
	1527	3			3750	2.9	3500	2.7	3085	2.4	2676	2.1	2300	1.9	1815	1.5
	1598	2							3350	2.6	2950	2.6	2590	2.3	2175	2.0
	1670	1									3210	3.0	2870	2.7	2500	2.4
	1742	0													2800	2.9
5.0	1623	4	4165	3.7	3965	3.5	3750	3.3	3475	3.0	3055	2.5	2685	2.3	2290	2.0
	1728	2			4240	4.3	4050	4.0	3820	3.7	3450	3.3	3050	3.0	2720	2.6
	1832	0					4345	4.9	4140	4.5	3850	4.2	3490	3.7	3145	3.3

Note: Brake Horse Power (BHP) is for one blower motor package only.

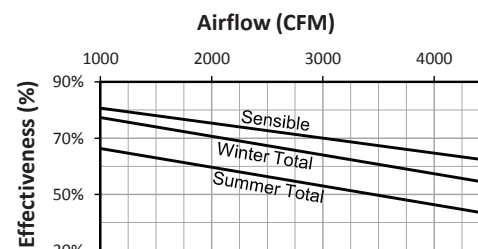
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
2.0	120	60	Single	20.0	45.0	60			
2.0	208-230	60	Single	10.8-10.0	24.3	35	6.6-5.8	28.3	30
	208-230	60	Three	6.6-5.8	14.9	20	6.6-5.8	16.3	20
	460	60	Three	2.9	6.5	15	2.9	7.2	15
	575	60	Three	2.4	5.4	15	2.4	5.9	15
3.0	208-230	60	Single	14.7-14	33.1	40	9.4-8.5	40.2	45
	208-230	60	Three	9.4-8.5	21.1	25	9.4-8.5	23.2	25
	460	60	Three	4.2	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

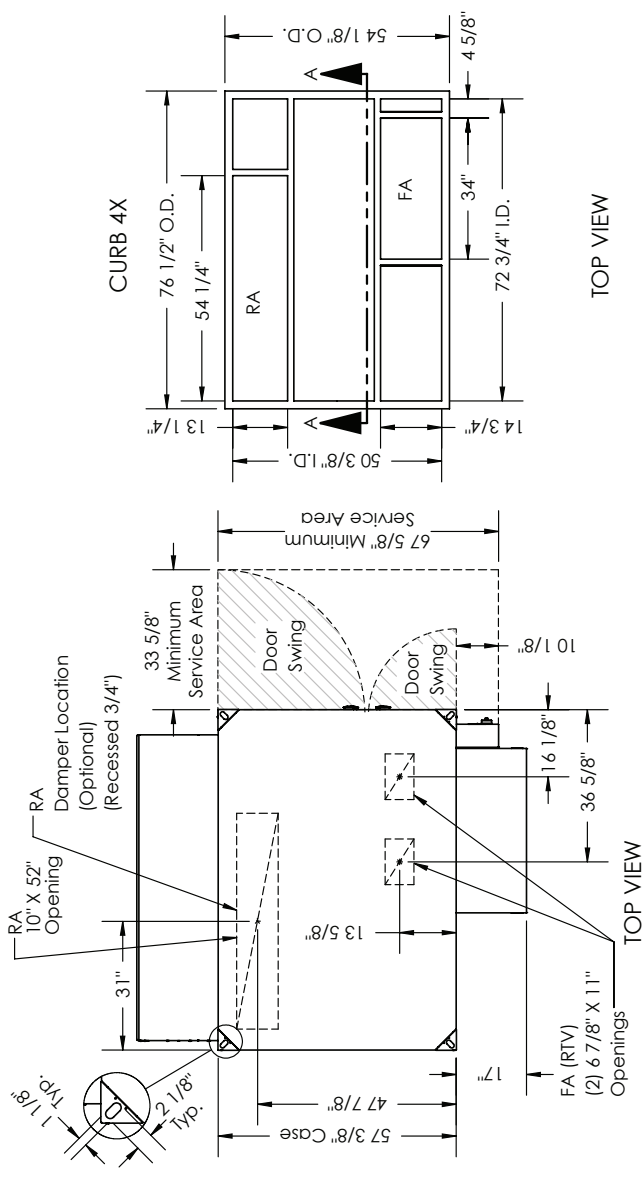
Specifications may be subject to change without notice.

CORE PERFORMANCE

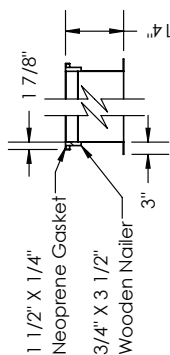


At AHRI 1060 standard conditions.

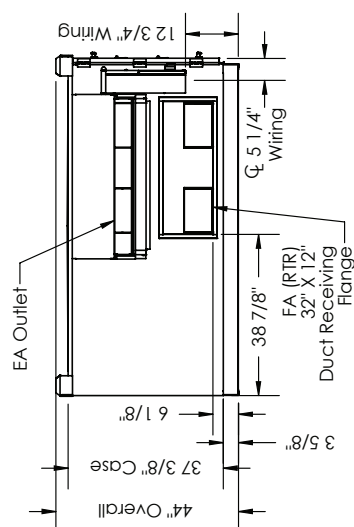
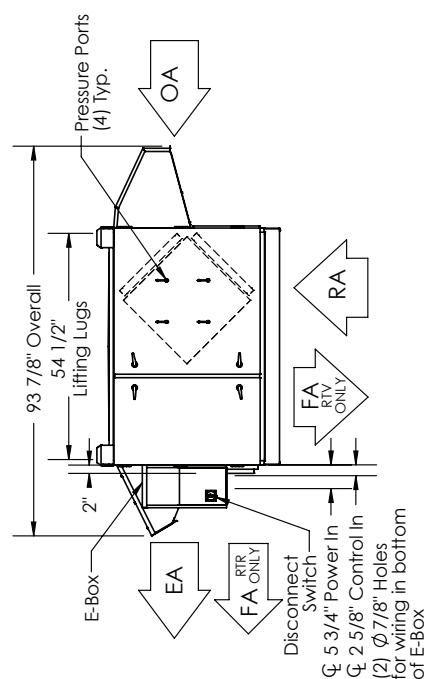
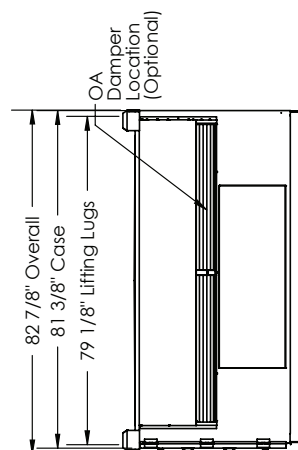
See all AHRI certified ratings at www.ahrinet.org.



CURB CROSS-SECTION A-A (TYP.)



SECTION A-A



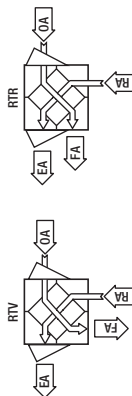
RIGHT VIEW

FRONT VIEW

LEFT VIEW

AIRFLOW CONFIGURATION

Available as shown:



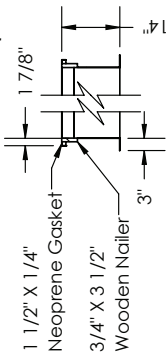
UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



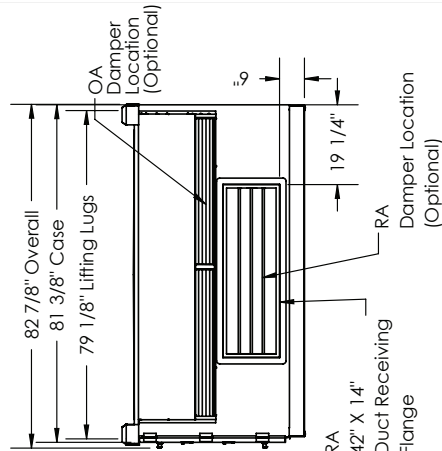
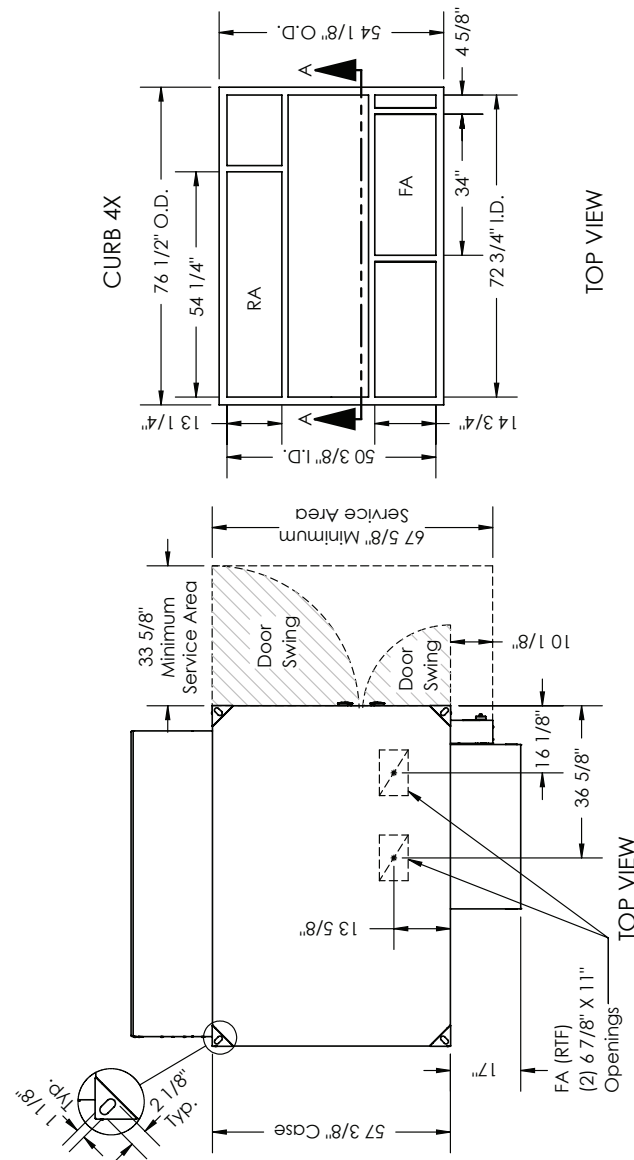
HE4XRT (RTH/RTF) Energy Recovery Ventilator Standard

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

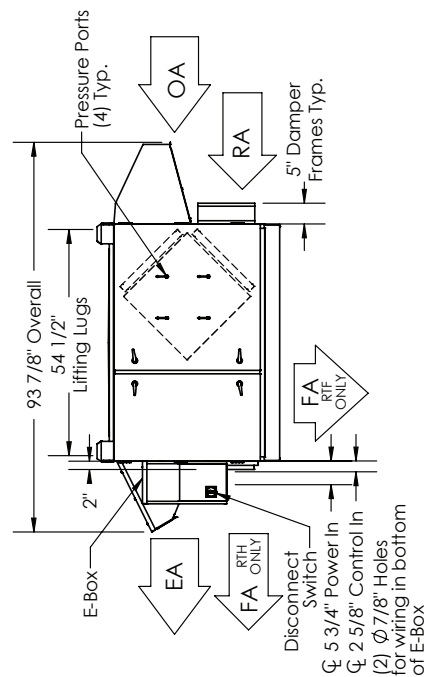
CURB CROSS-SECTION A-A (TYP.)



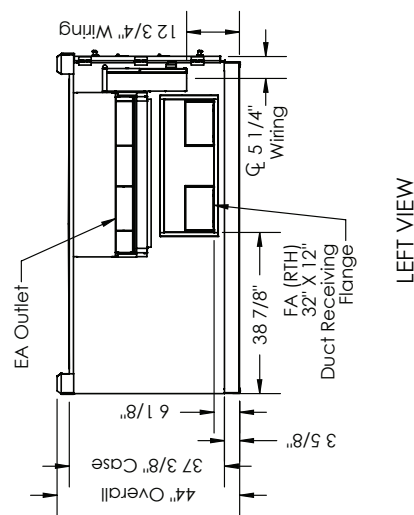
SECTION A-A



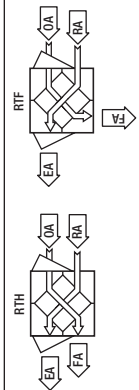
RIGHT VIEW



FRONT VIEW



LEFT VIEW



AIRFLOW CONFIGURATION

Available as shown:



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.

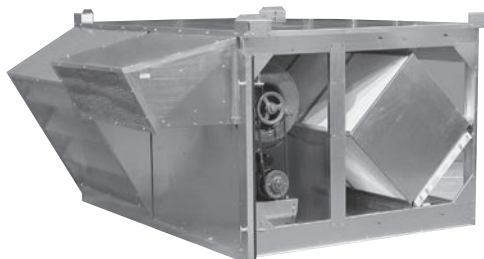


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HE 4XRTC

ROOFTOP UNIT Direct Connect



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,500-3,900 CFM

AHRI 1060 Certified Core: Four L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 8, MERV 8: (4) 20" x 20" x 2" and
(4) 16" x 20" x 2"

Unit Dimensions & Weight:

81 1/4" L x 83 1/4" W x 48 1/4" H
887-1,169 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

80" L x 90" W x 80" H
1,300 lbs.

Motor(s):

Qty. 2, 5.0 HP ea., Belt drive blower/standard motor
packages with adjustable sheaves

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
RTC transition kit - for vertical RTU, for horizontal RTU
Rooftop RTC transition paint - white, custom colors
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)
Smoke Detector - duct mount (SD-D)

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

AIRFLOW PERFORMANCE

	Blower RPM Nominal	Sheave Adj. Turns Open	Tie-In Directly to Rooftop A/C Unit*						Unit Ducted Independently*							
			Static Pressure in Adjacent Air Handler (Inches Water Column)						External Static Pressure (Inches Water Column)							
			-0.75		-0.5		-0.25		0.0		+0.25		+0.5		+0.75	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
Exhaust Air	1510	0	3400	3.1	3700	3.3	4000	3.6	4250	4.1	4000	3.6	3700	3.3	3400	3.1
	1465	1	3275	3.0	3600	3.2	3925	3.4	4225	3.8	3925	3.4	3600	3.2	3275	3.0
	1420	2	3125	2.8	3450	2.9	3775	3.0	4156	3.6	3775	3.0	3450	2.9	3125	2.8
	1375	3	2935	2.3	3300	2.5	3665	2.8	4067	3.4	3665	2.8	3300	2.5	2935	2.3
	1330	4	2780	2.0	3150	2.3	3520	2.5	3900	3.1	3520	2.5	3150	2.3	2780	2.0
	1285	5	2685	1.6	3050	2.0	3415	2.4	3760	2.8	3415	2.4	3050	2.0	2685	1.6
	1240	6	2620	1.4	2950	1.7	3280	2.0	3600	2.4	3280	2.0	2950	1.7	2620	1.4
Fresh Air	1825	0													3245	5.0
	1770	1											3225	4.9	3125	4.6
	1715	2							3450	4.8	3275	4.6	3140	4.5	3005	4.3
	1660	3	3920	5.0	3760	5.0	3600	5.0	3360	4.5	3180	4.1	3060	4.0	2940	3.9
	1605	4	3790	4.6	3670	4.6	3550	4.7	3270	4.1	3090	3.7	2970	3.7	2850	3.7
	1550	5	3724	4.2	3582	4.3	3440	4.5	3190	3.6	3010	3.4	2890	3.3	2770	3.3
	1495	6	3680	4.2	3500	4.1	3320	3.9	3100	3.5	2910	2.9	2790	2.8	2670	2.8

Note: Brake Horse Power (BHP) is for one blower motor package only.

Note: Operation in this zone will likely exceed FLA limits.

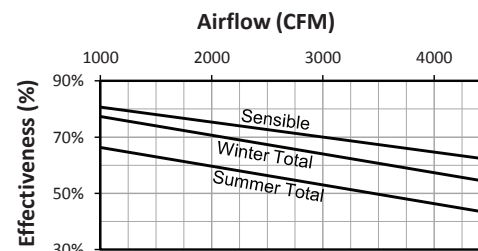
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

* See page 38 for installation details.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15

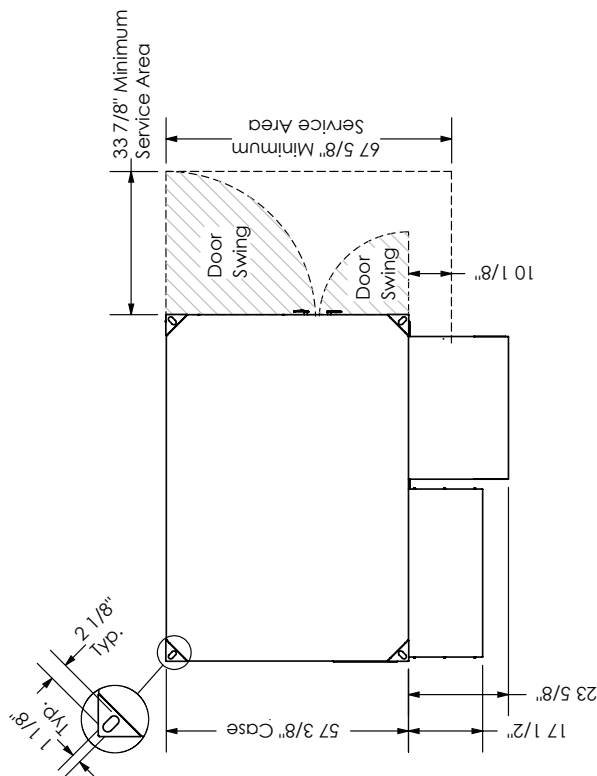
CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.



ABBREVIATIONS

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

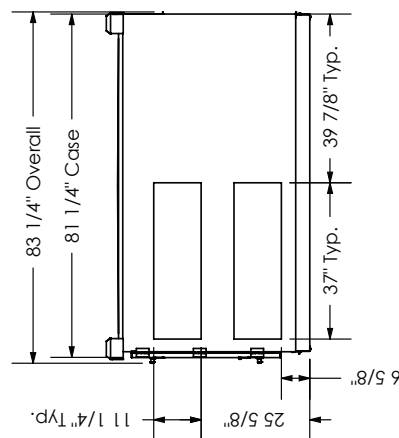
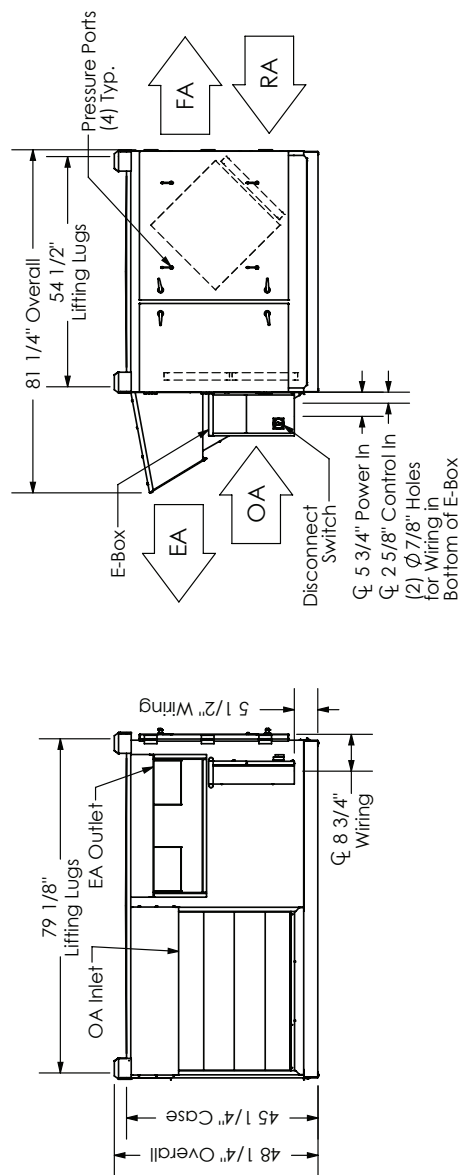
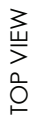
INSTALLATION ORIENTATION

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

NOTE:

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 CONFIGURATION

Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.

HE 6XIN

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



For safety listed products,
see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,500 CFM

AHRI 1060 Certified Core:

Six L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 12, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

88" L x 113 1/2" W x 81 3/4" H
2,235-3,099 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

116" L x 90" W x 90" H
3,439 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, EA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																	
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5005	3.2	4800	3.2	4650	3.1	4475	3.0	4200	2.9	4000	2.8	3750	2.8	3400	2.7	3100	2.5
	1610	2	5550	4.2	5375	4.2	5250	4.1	5100	4.1	4900	4.0	4650	3.9	4500	3.8	4250	3.7	4000	3.6
	1725	0							5525	5.0	5475	5.0	5200	4.9	5050	4.8	4800	4.6	4600	4.5
7.5	1560	4.5	5275	3.7	5200	3.6	4900	3.5	4775	3.5	4550	3.4	4350	3.3	4125	3.3	3875	3.2	3575	3.1
	1740	2	5950	5.0	5825	5.0	5625	4.9	5490	4.9	5325	4.8	5125	4.7	4950	4.7	4750	4.6	4525	4.5
	1865	0	6500	6.5	6350	6.5	6225	6.4	6125	6.4	5910	6.3	5825	6.2	5625	6.1	5410	6.1	5300	6.0

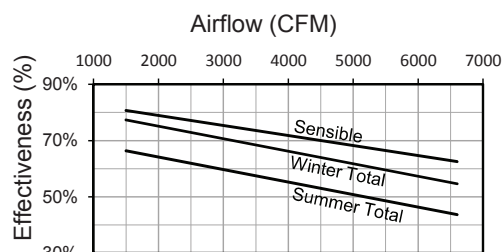
Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

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

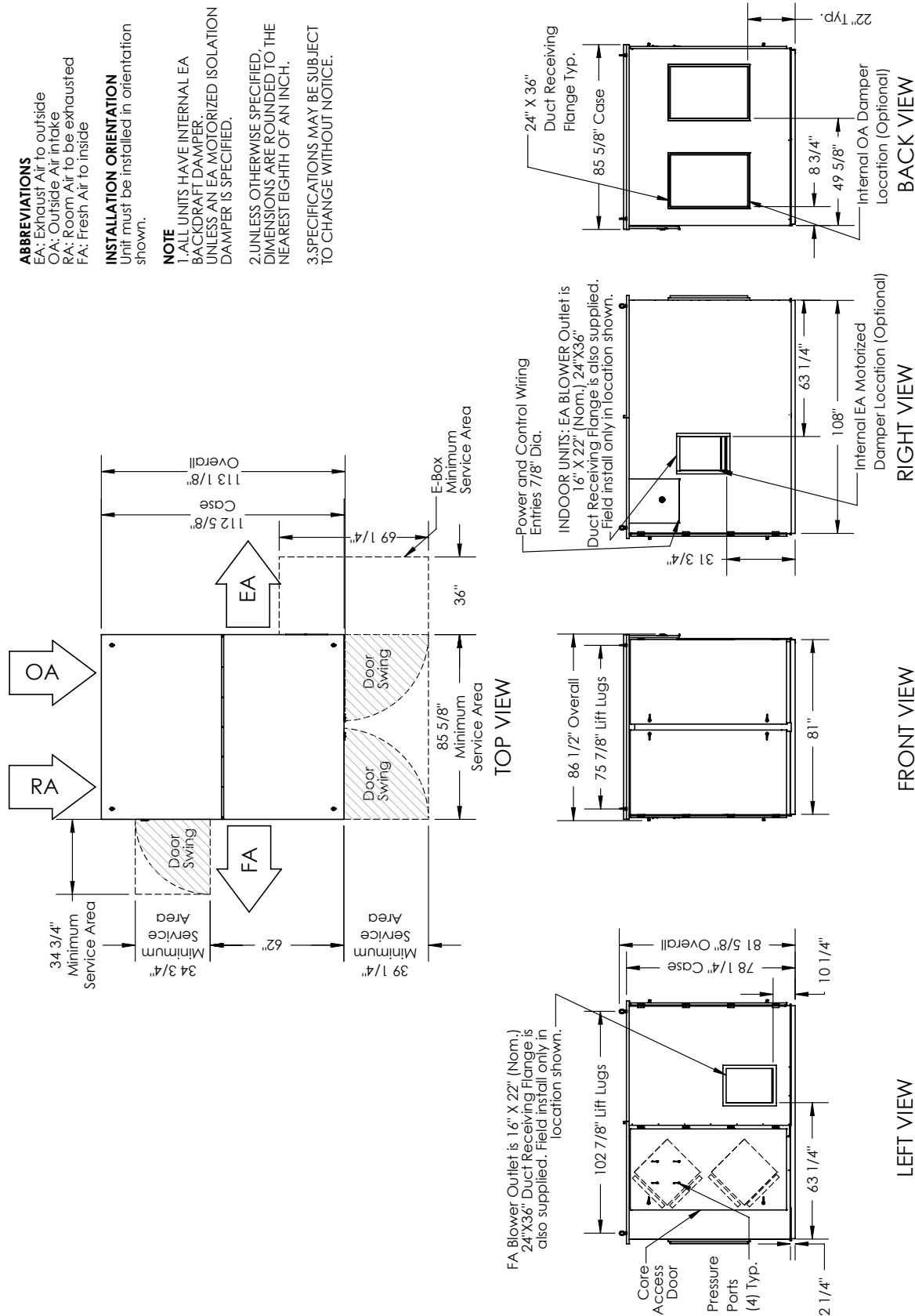
ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.



AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.

HE 6XIN

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard with Bypass Economizer



For safety listed products,
see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,500 CFM

AHRI 1060 Certified Core:

Six L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 12, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

88" L x 113 1/2" W x 81 3/4" H
2,235-3,099 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

116" L x 90" W x 90" H
3,439 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
OA, EA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																	
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5005	3.2	4800	3.2	4650	3.1	4475	3.0	4200	2.9	4000	2.8	3750	2.8	3400	2.7	3100	2.5
	1610	2	5550	4.2	5375	4.2	5250	4.1	5100	4.1	4900	4.0	4650	3.9	4500	3.8	4250	3.7	4000	3.6
	1725	0							5525	5.0	5475	5.0	5200	4.9	5050	4.8	4800	4.6	4600	4.5
7.5	1560	4.5	5275	3.7	5200	3.6	4900	3.5	4775	3.5	4550	3.4	4350	3.3	4125	3.3	3875	3.2	3575	3.1
	1740	2	5950	5.0	5825	5.0	5625	4.9	5490	4.9	5325	4.8	5125	4.7	4950	4.7	4750	4.6	4525	4.5
	1865	0	6500	6.5	6350	6.5	6225	6.4	6125	6.4	5910	6.3	5825	6.2	5625	6.1	5410	6.1	5300	6.0

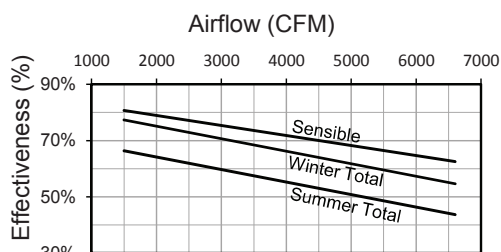
Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

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

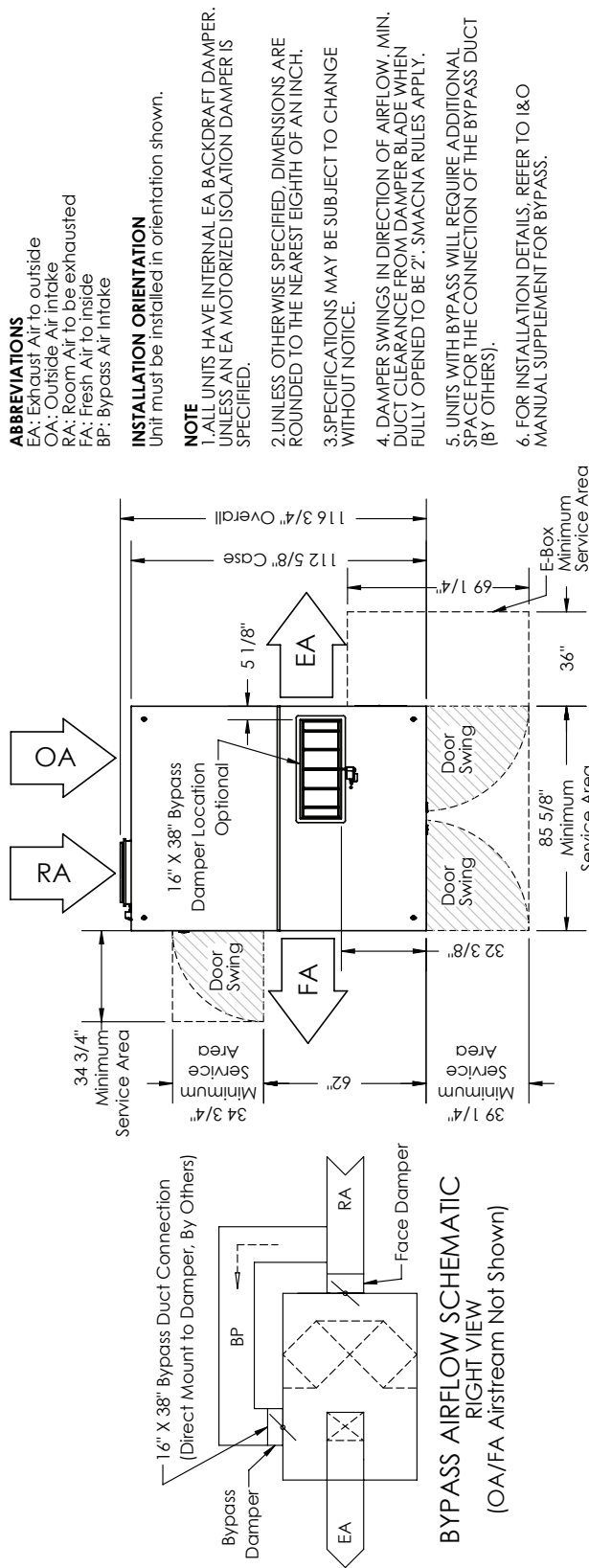
ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

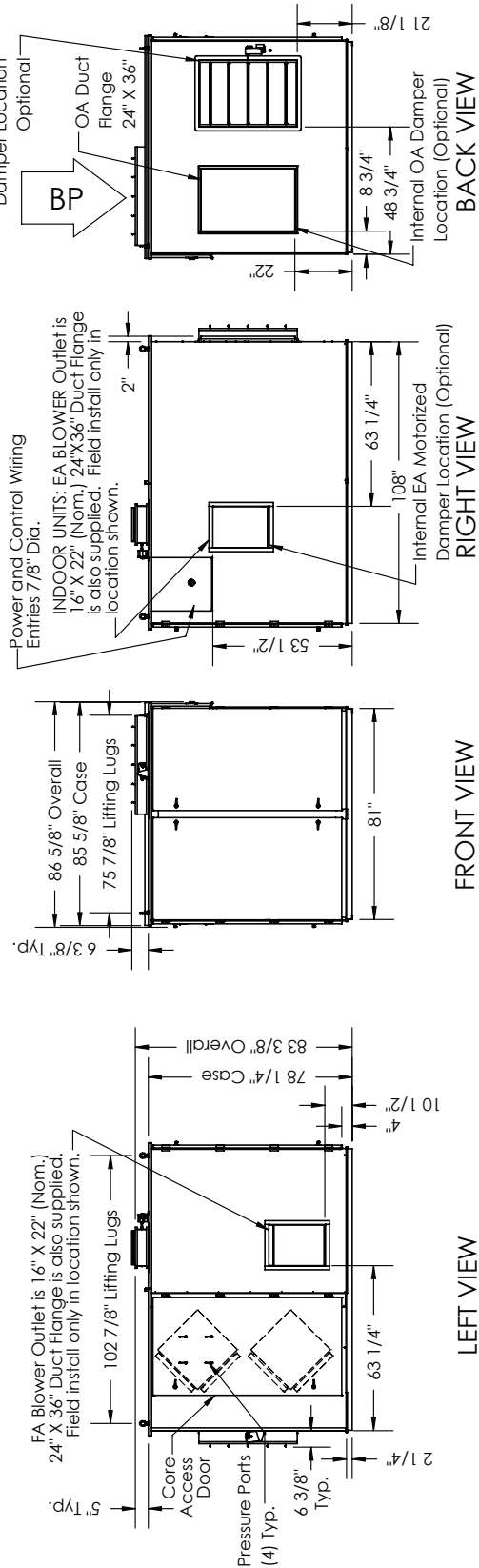
CORE PERFORMANCE



At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.



TOP VIEW



ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. ALL UNITS HAVE INTERNAL EA BACKDRAFT DAMPER, UNLESS AN EA MOTORIZED ISOLATION DAMPER IS SPECIFIED.
2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
4. DAMPER SWINGS IN DIRECTION OF AIRFLOW. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
5. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
6. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

FRONT VIEW

LEFT VIEW

RIGHT VIEW

BACK VIEW

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



HE 6XRT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



For safety listed products,
 see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,500 CFM

AHRI 1060 Certified Core:

Six L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 12, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

106 1/2" L x 113 1/2" W x 81 3/4" H
 2,301-3,166 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

116" L x 90" W x 90" H
 3,599 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, EA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 Digital time clock - wall mount (TC7D-W),
 in exterior enclosure (TC7D-E)
 Carbon dioxide sensor/control -
 wall mount (C02-W), duct mount (C02-D)
 IAQ sensor - wall mount (IAQ-W),
 duct mount (IAQ-D)
 Motion occupancy sensor/control -
 ceiling mount (MC-C), wall mount (MC-W)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																	
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5005	3.2	4800	3.2	4650	3.1	4475	3.0	4200	2.9	4000	2.8	3750	2.8	3400	2.7	3100	2.5
	1610	2	5550	4.2	5375	4.2	5250	4.1	5100	4.1	4900	4.0	4650	3.9	4500	3.8	4250	3.7	4000	3.6
	1725	0							5525	5.0	5475	5.0	5200	4.9	5050	4.8	4800	4.6	4600	4.5
7.5	1560	4.5	5275	3.7	5200	3.6	4900	3.5	4775	3.5	4550	3.4	4350	3.3	4125	3.3	3875	3.2	3575	3.1
	1740	2	5950	5.0	5825	5.0	5625	4.9	5490	4.9	5325	4.8	5125	4.7	4950	4.7	4750	4.6	4525	4.5
	1865	0	6500	6.5	6350	6.5	6225	6.4	6125	6.4	5910	6.3	5825	6.2	5625	6.1	5410	6.1	5300	6.0

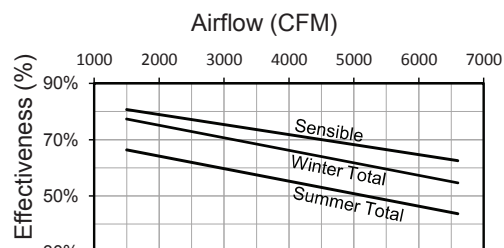
Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

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

ELECTRICAL DATA

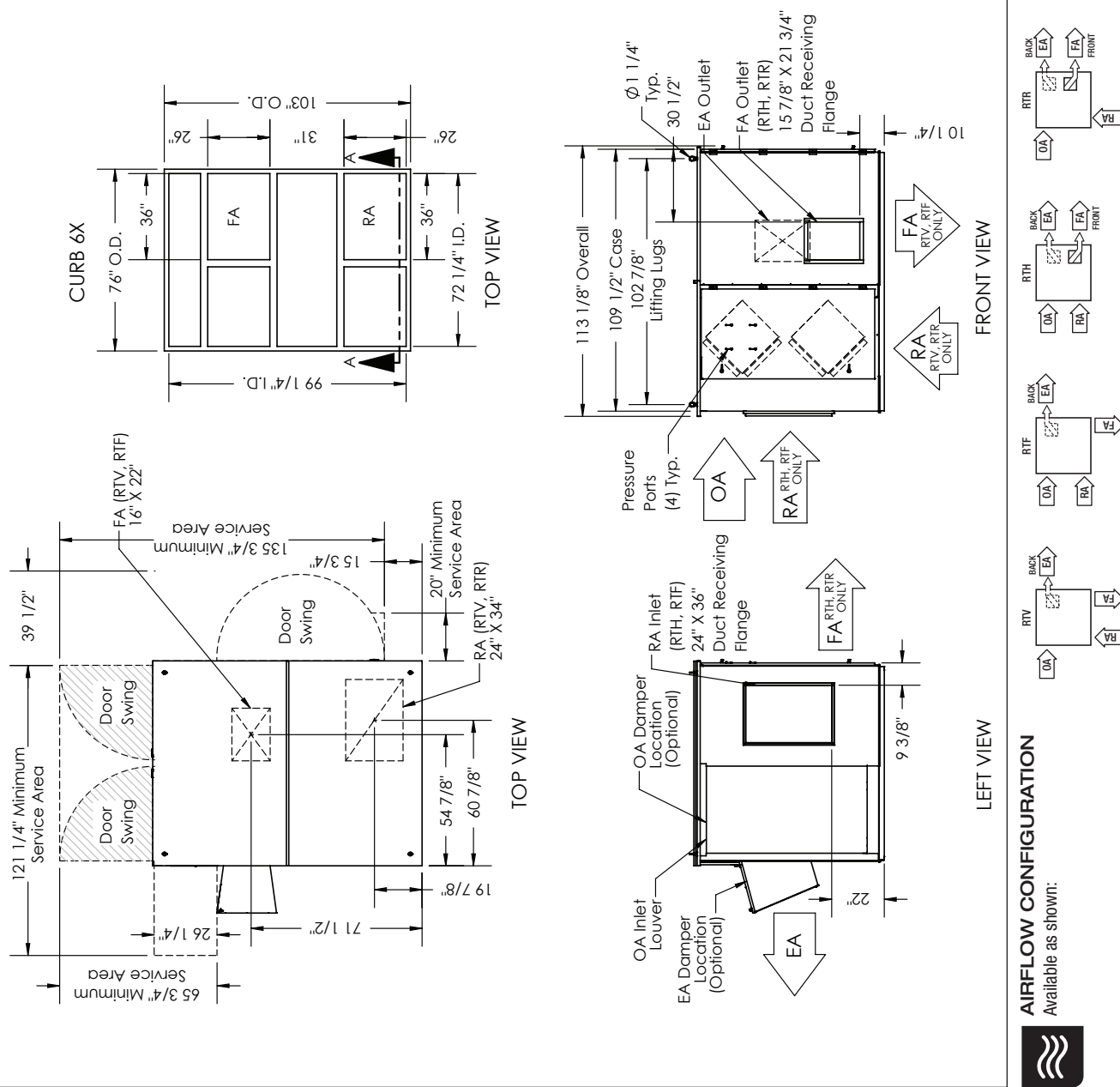
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.

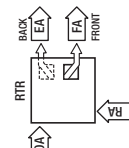
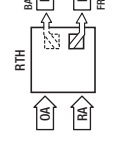
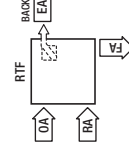
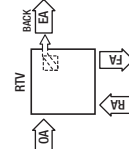
HE6XRT



AIRFLOW CONTROL
Available as shown:



AIRFLOW CONFIGURATION



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



For safety listed products,
 see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-7,950 CFM

AHRI 1060 Certified Core:

Eight L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 16, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

88" L x 113 1/2" W x 81 3/4" H
 2,261-3,278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

116" L x 90" W x 90" H
 3,618 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 OA, EA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																			
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00			
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5575	3.2	5425	3.2	5200	3.2	5000	3.2	4775	3.1	4550	3.0	4270	2.9	4000	2.8	3625	2.7		
	1610	2	6200	4.3	6010	4.3	5875	4.2	5700	4.2	5500	4.2	5325	4.1	5125	4.1	4900	4.0	4625	3.9		
	1725	0	6650	5.2	6500	5.2	6375	5.2	6200	5.2	6050	5.1	5875	5.1	5700	5.1	5490	5.0	5250	4.9		
7.5	1560	4.5	6000	3.9	5850	3.9	5650	3.8	5475	3.8	5275	3.8	5100	3.7	4875	3.7	4600	3.6	4300	3.5		
	1740	2	6700	5.3	6575	5.3	6400	5.3	6300	5.3	6125	5.3	5950	5.2	5750	5.2	5575	5.1	5325	5.1		
	1865	0	7225	7.6	7075	7.6	6950	7.6	6800	7.5	6675	7.5	6500	7.5	6375	7.4	6200	7.4	6000	7.3		
10.0	1810	4.5	7000	6.1	6875	6.1	6750	6.1	6600	6.0	6425	6.0	6275	6.0	6100	5.9	5925	5.8	5875	5.8		
	2020	2	7850	8.3	7745	8.3	7625	8.2	7450	8.2	7350	8.2	7200	8.1	7050	8.1	6925	8.0	6775	8.0		
	2105	1					7950	9.1	7800	9.1	7725	9.1	7600	9.0	7450	9.0	7300	8.9	7150	8.9		

Note: Brake Horse Power (BHP) is for one blower motor package only.

Operation in this zone will likely exceed FLA limits.

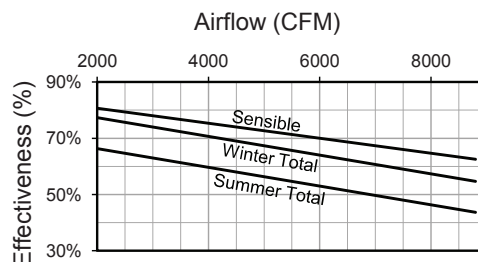
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

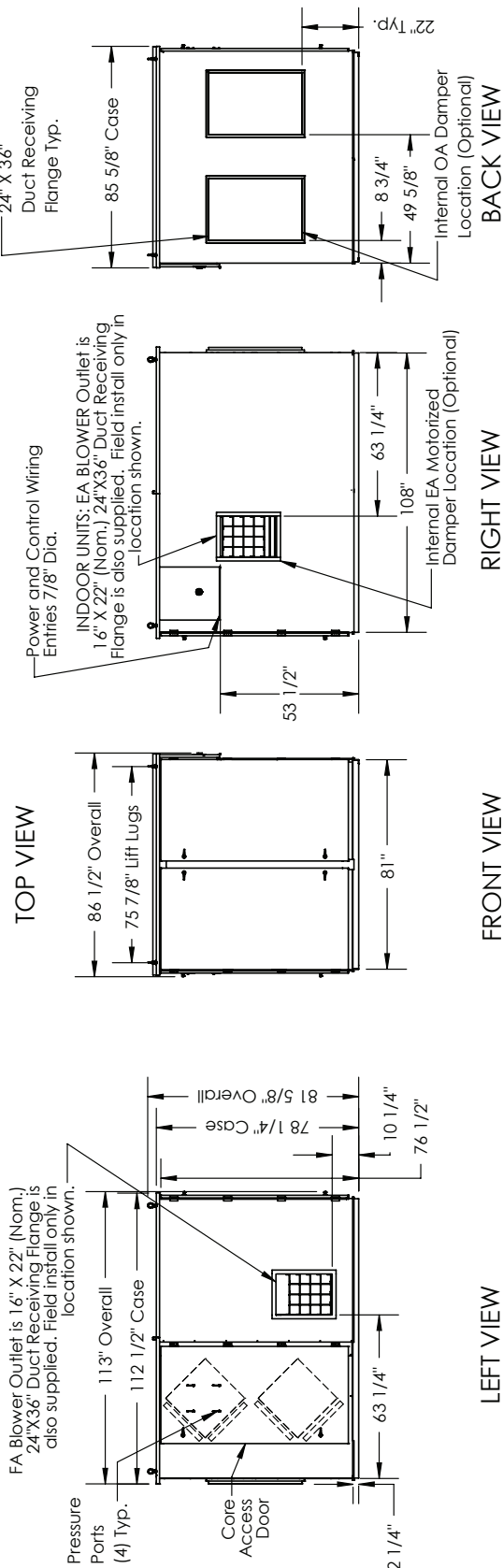
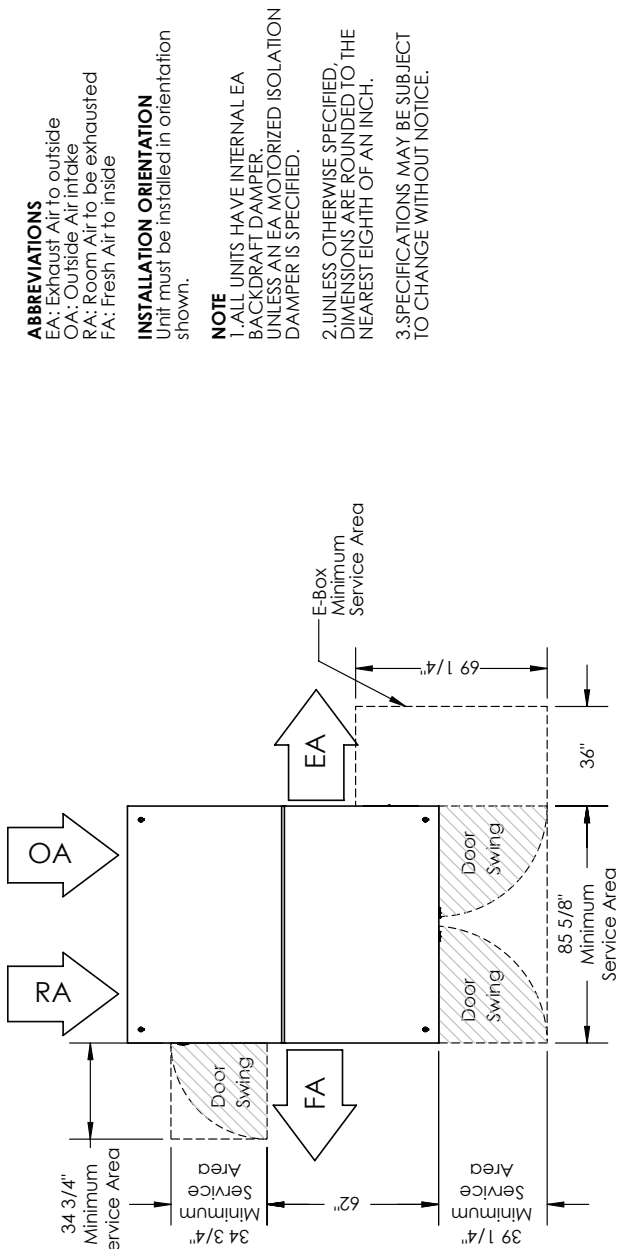
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-25.0	60.8	80	27.0-25.0	66.8	80
	460	60	Three	12.5	28.1	35	12.5	30.9	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.



AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.

HE 8XIN

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard with Bypass Economizer



For safety listed products,
see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-7,950 CFM

AHRI 1060 Certified Core:

Eight L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 16, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

88" L x 113 1/2" W x 81 3/4" H
 2,261-3,278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

116" L x 90" W x 90" H
 3,618 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Bypass economizer damper
 (see bypass DIM drawing) -
 dry-bulb temperature controls (standard),
 enthalpy controls (option)
 Class 1 low leakage motorized isolation dampers -
 OA, EA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																	
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5575	3.2	5425	3.2	5200	3.2	5000	3.2	4775	3.1	4550	3.0	4270	2.9	4000	2.8	3625	2.7
	1610	2	6200	4.3	6010	4.3	5875	4.2	5700	4.2	5500	4.2	5325	4.1	5125	4.1	4900	4.0	4625	3.9
	1725	0	6650	5.2	6500	5.2	6375	5.2	6200	5.2	6050	5.1	5875	5.1	5700	5.1	5490	5.0	5250	4.9
7.5	1560	4.5	6000	3.9	5850	3.9	5650	3.8	5475	3.8	5275	3.8	5100	3.7	4875	3.7	4600	3.6	4300	3.5
	1740	2	6700	5.3	6575	5.3	6400	5.3	6300	5.3	6125	5.3	5950	5.2	5750	5.2	5575	5.1	5325	5.1
	1865	0	7225	7.6	7075	7.6	6950	7.6	6800	7.5	6675	7.5	6500	7.5	6375	7.4	6200	7.4	6000	7.3
10.0	1810	4.5	7000	6.1	6875	6.1	6750	6.1	6600	6.0	6425	6.0	6275	6.0	6100	5.9	5925	5.8	5875	5.8
	2020	2	7850	8.3	7745	8.3	7625	8.2	7450	8.2	7350	8.2	7200	8.1	7050	8.1	6925	8.0	6775	8.0
	2105	1					7950	9.1	7800	9.1	7725	9.1	7600	9.0	7450	9.0	7300	8.9	7150	8.9

Note: Brake Horse Power (BHP) is for one blower motor package only.

 Operation in this zone will likely exceed FLA limits.

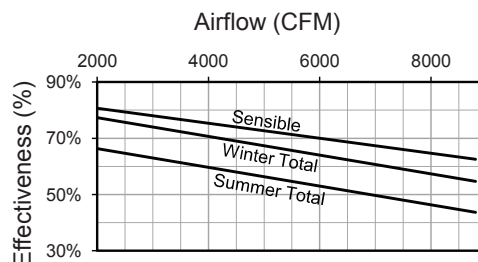
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

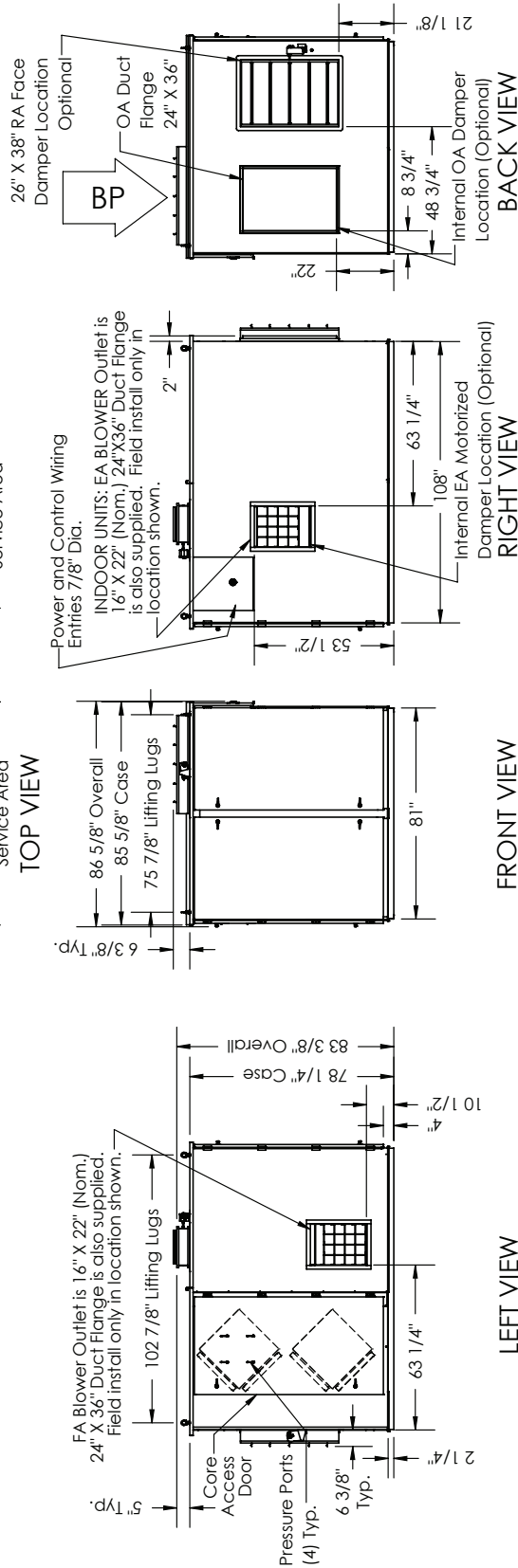
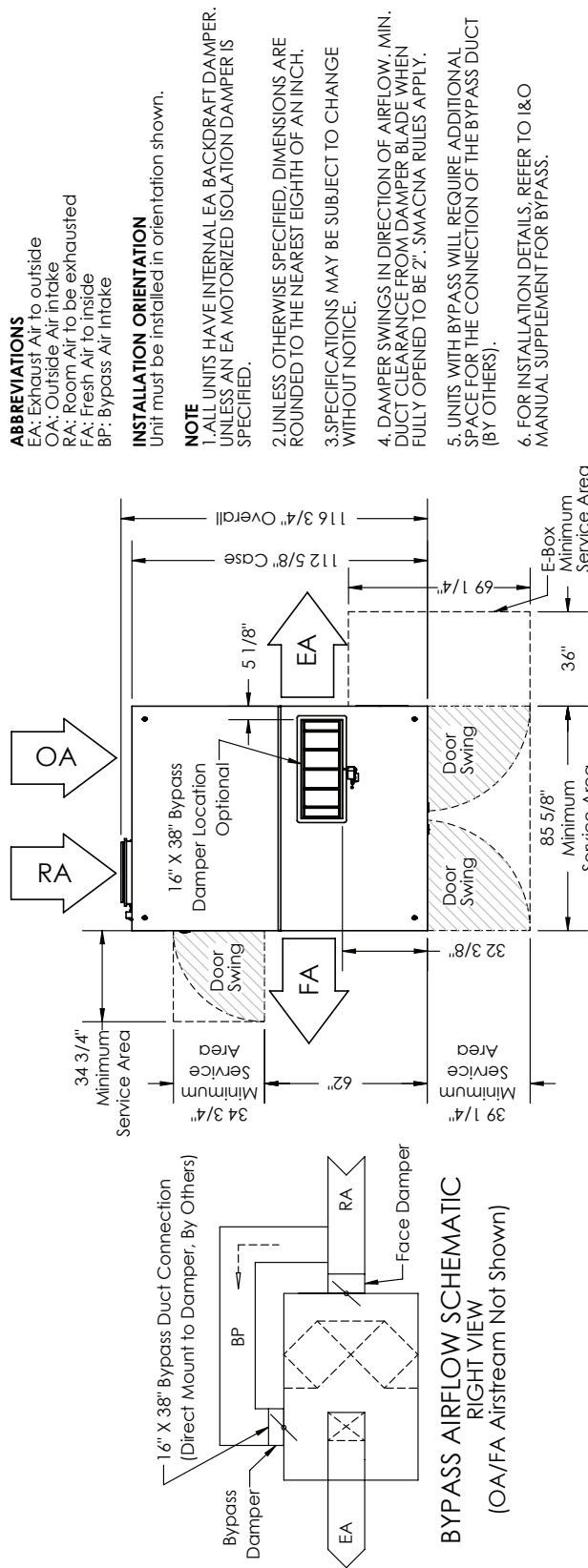
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-25.0	60.8	80	27.0-25.0	66.8	80
	460	60	Three	12.5	28.1	35	12.5	30.9	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.



AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

FRONT VIEW

RIGHT VIEW

BACK VIEW

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.



HE 8XRT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



For safety listed products,
see LE-SERIES models.

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-7,950 CFM

AHRI 1060 Certified Core:

Eight L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

Total qty. 16, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:

106 1/2" L x 140 1/2" W x 81 3/4" H
2,399-3,416 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Pallet 1 (unit): 116" L x 90" W x 90" H
Pallet 2 (hoods): 60" L x 42" W x 90" H
3,756 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:

Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Class 1 low leakage motorized isolation dampers -
OA, EA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)
Roof curb - standard 14"
Curb wind clip
Engineered combo curb for Carrier RTU
Engineered combo curb for Trane RTU
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW);
designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Motor HP	Blower RPM	Sheave Adj. Turns Open	External Static Pressure (in. w.g.)																	
			0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5.0	1460	4.5	5575	3.2	5425	3.2	5200	3.2	5000	3.2	4775	3.1	4550	3.0	4270	2.9	4000	2.8	3625	2.7
	1610	2	6200	4.3	6010	4.3	5875	4.2	5700	4.2	5500	4.2	5325	4.1	5125	4.1	4900	4.0	4625	3.9
	1725	0	6650	5.2	6500	5.2	6375	5.2	6200	5.2	6050	5.1	5875	5.1	5700	5.1	5490	5.0	5250	4.9
7.5	1560	4.5	6000	3.9	5850	3.9	5650	3.8	5475	3.8	5275	3.8	5100	3.7	4875	3.7	4600	3.6	4300	3.5
	1740	2	6700	5.3	6575	5.3	6400	5.3	6300	5.3	6125	5.3	5950	5.2	5750	5.2	5575	5.1	5325	5.1
	1865	0	7225	7.6	7075	7.6	6950	7.6	6800	7.5	6675	7.5	6500	7.5	6375	7.4	6200	7.4	6000	7.3
10.0	1810	4.5	7000	6.1	6875	6.1	6750	6.1	6600	6.0	6425	6.0	6275	6.0	6100	5.9	5925	5.8	5875	5.8
	2020	2	7850	8.3	7745	8.3	7625	8.2	7450	8.2	7350	8.2	7200	8.1	7050	8.1	6925	8.0	6775	8.0
	2105	1					7950	9.1	7800	9.1	7725	9.1	7600	9.0	7450	9.0	7300	8.9	7150	8.9

Note: Brake Horse Power (BHP) is for one blower motor package only.

Operation in this zone will likely exceed FLA limits.

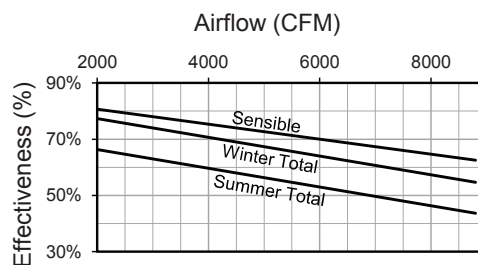
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-25.0	60.8	80	27.0-25.0	66.8	80
	460	60	Three	12.5	28.1	35	12.5	30.9	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

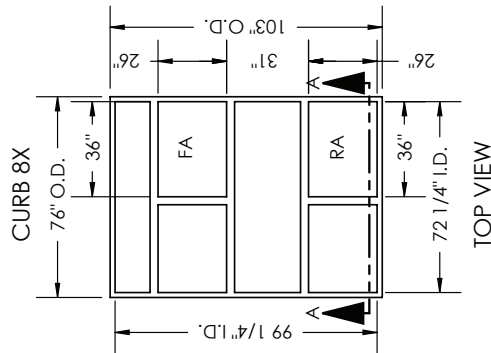
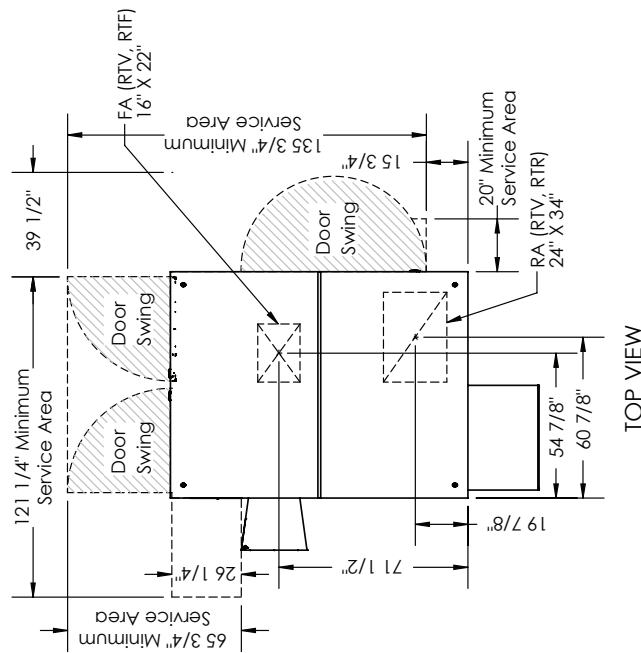
Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.



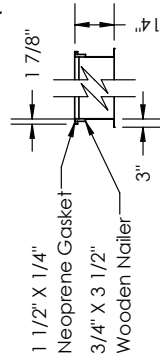
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 RTV: Rooftop Vertical RA & FA
 RTF: Rooftop Vertical FA Only
 RTR: Rooftop Vertical RA Only
 RTH: Rooftop Horizontal RA & FA

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

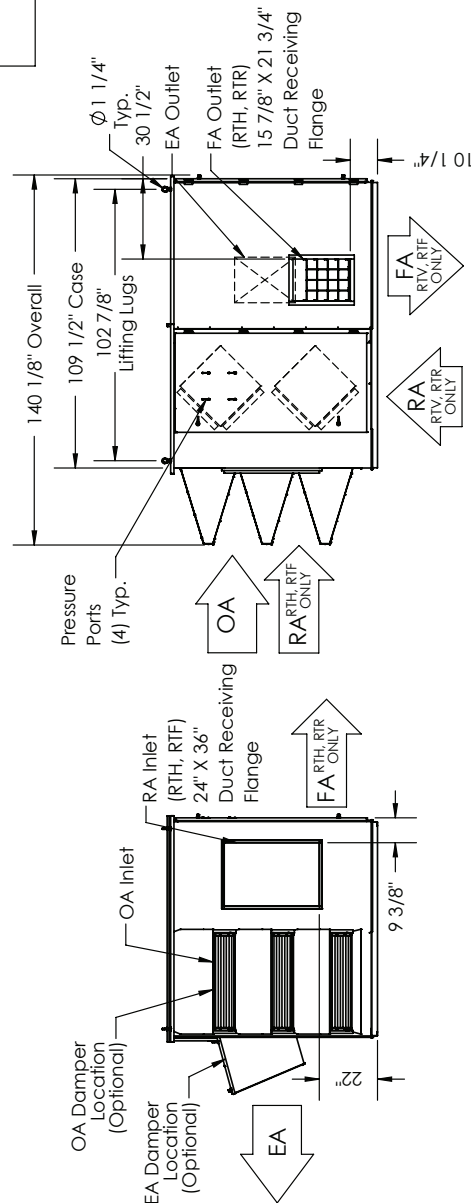
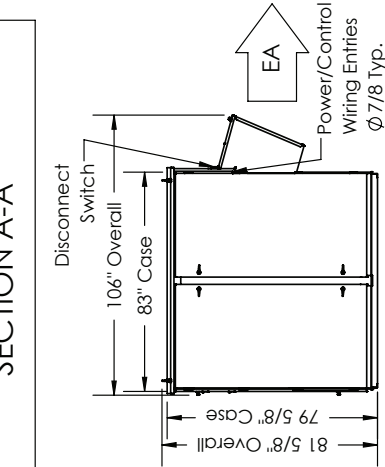
NOTE:
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

CURB CROSS-SECTION A-A (TYP.)



SECTION A-A



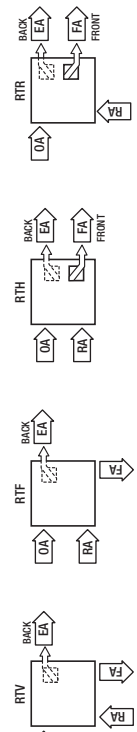
LEFT VIEW

FRONT VIEW

RIGHT VIEW

AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.



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OPTIONS

See individual submittal pages for availability by model.

EC MOTOR

- ♦ Best energy efficiency
- ♦ Two speed, single speed, or variable speed operation
- ♦ Easy airflow setup using RenewAire's standard pressure taps
- cuts commissioning time



ELECTRICAL

- ♦ Disconnect fuses and motor starters
- ♦ Independent blower control (IBC) available as an option for HE1X and HE1.5X



VARIABLE FREQUENCY DRIVE

- ♦ Factory supplied and mounted variable frequency drives (VFDs)
- one or both airstreams
- ♦ Provides additional control options
- ♦ Separate VFD for each airstream
- ♦ Display/control in electrical box - can be remotely mounted
- ♦ Pre-programmed speeds or variable speed
- ♦ Easy airflow setup using RenewAire's standard pressure ports
- cuts commissioning time
- ♦ Shaft grounding ring on motors with VFDs



VFD all voltage except 575V



VFD 575V only

MOTORIZED ISOLATION DAMPERS

- ♦ Class 1, low leakage
- ♦ Robust, reliable actuators for highest dependability
- ♦ Automatic operation with spring return in event of power loss
- ♦ Damper(s) are factory mounted and wired (except in HE1XIN - shipped loose)



FILTER ALARM

- ♦ Factory mounted airflow switches - one for each airstream
- ♦ Allows for remote indication of loaded (dirty) filter



EXTERIOR PAINT

- ♦ White and custom colors available



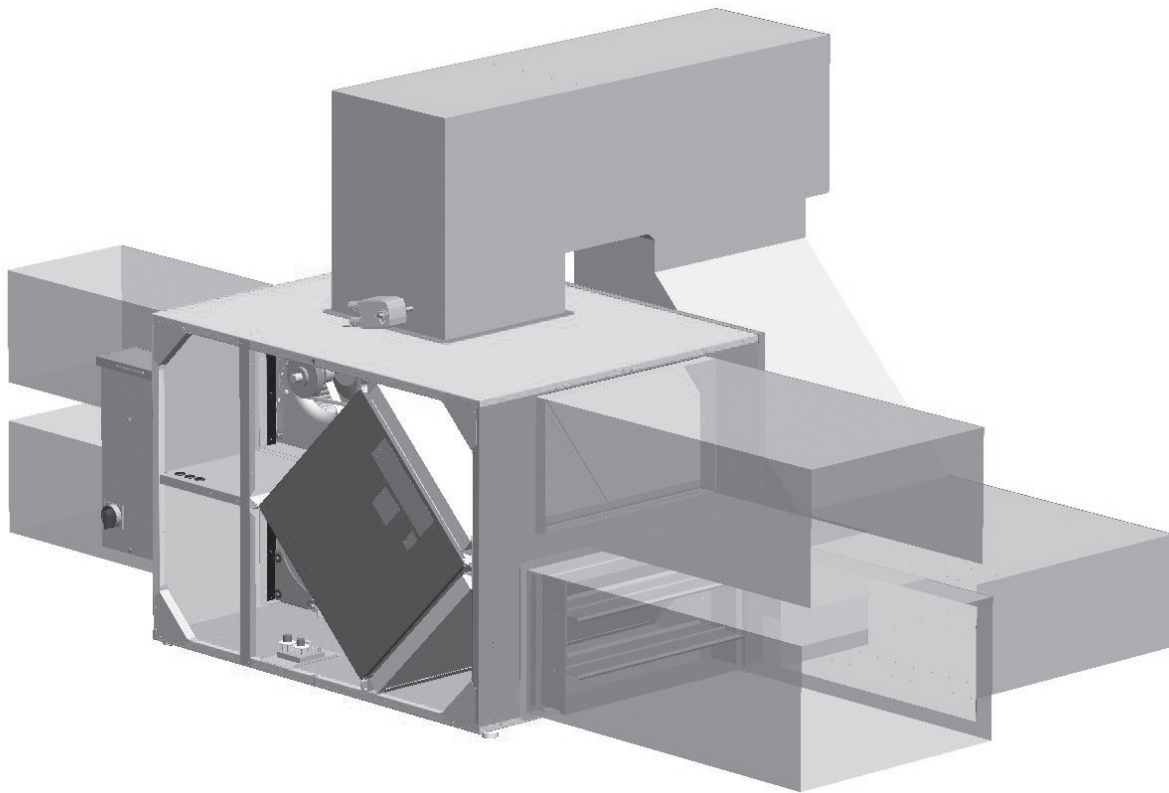
Specifications may be subject to change without notice.

OPTIONS

Bypass Economizer

AVAILABLE ON ALL HE-SERIES INDOOR UNITS

By utilizing what nature offers, our bypass economizer can “free cool” indoor spaces by using tempered and filtered outdoor air when the temperature and/or humidity are within a favorable range. This process **MAXIMIZES OPERATING EFFICIENCIES** and **REDUCES ENERGY** use and costs, all while indoor air quality is Enhanced—a win-win for occupant health, the environment and the bottom line. Bypass can now be specified for all RenewAire HE indoor units as a factory option.



KEY BENEFITS

- ♦ **Reduce energy use and costs:**
Energy efficiency is optimized since the bypass provides airside economizer capabilities to the building mechanical system.
- ♦ **Flexible design:**
Bypass allows for flexibility in the routing of the bypass duct. Additionally, the dampers are adjustable and AMCA Class I certified for low leakage.
- ♦ **Increase installation opportunities:**
HE indoor units can now be specified and installed on projects that require ERV bypass.
- ♦ **100% bypass of air:**
Unlike other options on the market, RenewAire offers 100% core bypass of air, resulting in free cooling and further energy reductions.
- ♦ **Ultimate reliability:**
Our commitment to innovative design practices, expert workmanship and Quick Response Manufacturing ensures unmatched reliability.
- ♦ **Fast and easy implementation:**
The economizer option doesn't affect the current lead time of the base units, and it doesn't require any additional certifications.
- ♦ **Meet code requirements:**
Bypass helps HE indoor units meet economizer requirements per building codes and other referenced standards.

Specifications may be subject to change without notice.

OPTIONS

Bypass Economizer

The bypass system consists of the addition of an **extra bypass duct**, two **electrically actuated dampers** and a **control system**. Bypass is achieved with the help of two dampers consisting of the face damper (normally closed) and the bypass damper (normally closed), factory-installed bypass controls and field-installed ductwork that links the return air to the exhaust air. **When conditions are favorable for bypass, the face damper closes** while the bypass damper opens simultaneously, thereby allowing for 100% of the return air to bypass the core. The Bypass Economizer option comes with two factory-supplied dampers and a bypass control system of your choice:

DAMPERS



Square Damper



Circle Damper

The **face damper** is factory-installed on the return air (RA) duct inlet for all units except HE1X. The **bypass damper** is also factory-installed on all units except HE1X and HE1.5X.

CONTROLS



Dry-bulb control:

The standard bypass control is temperature-based via a single outdoor-air controller and sensor.



Enthalpy control:

This optional bypass control is based on differential enthalpy and uses a return-air enthalpy sensor in conjunction with an outdoor-air enthalpy controller and a dry-bulb temperature controller.

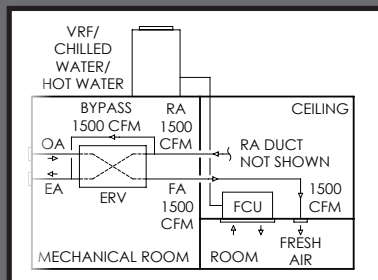
FIELD-INSTALLED BYPASS DUCT SIZE RECOMMENDATIONS

ERV UNIT	FACE DAMPER	BYPASS DAMPER	RECOMMENDED BYPASS DUCT SIZE*
HE1XINH, HE1XINV	Shipped loose	Shipped loose	12"
HE1.5XINH, HE1.5XINV	Factory installed	Shipped loose	12"
HE2XINH, HE2XINV	Factory installed	Factory installed	16" x 16"
HE3XINH	Factory installed	Factory installed	30" x 16"
HE3XINV			36" x 14"
HE4XINH	Factory installed	Factory installed	34" x 16"
HE4XINV			42" x 14"
HE6XIN, HE8XIN	Factory installed	Factory installed	38" x 16"

* Recommended duct sizes are based on ensuring that the pressure drop in the bypass duct is less than the pressure drop through the core. Equivalent duct sizes at same pressure drop are acceptable.

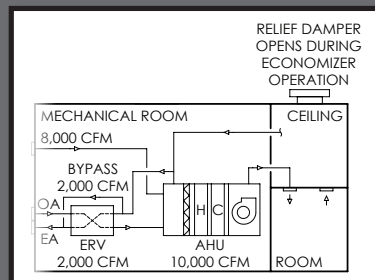
NOTE: Installation of bypass duct per SMACNA guidelines.

100% ECONOMIZER



The Bypass Economizer option will provide 100% economizer capabilities in mechanical systems where the ERV is connected to a fan coil unit or supplying fresh air directly into the space. Examples of such systems are VRF, Chilled Beam or Chilled/Heated Panels.

PARTIAL ECONOMIZER



When connected to a main building air handler, the Bypass Economizer option shall offer partial bypass of only the ERV total airflow. For 100% economizer capability on the HVAC system, the air handler must be equipped with either powered relief or barometric relief economizer capacity (barometric relief shown).

OPTIONS

Integrated Programmable Controls

AVAILABLE ON ALL EV450, HE, LE, RD AND DN-SERIES UNITS

RenewAire's **INTEGRATED PROGRAMMABLE CONTROLS** optimize the usability and performance of our commercial ERVs by improving functionality, enabling intelligent controls, streamlining operations and boosting efficiencies. This is accomplished via sophisticated factory-installed microprocessor controls and sensors that provide stand-alone ERVs with Direct Digital Control (DDC) and/or Building Management System (BMS) control interface.



KEY BENEFITS

Optimize usability:

- Maximize ERV functionality and intelligent control via remote Ethernet accessibility and BMS connectivity without third-party interface.
- Streamline operations by easily managing and changing ERV control parameters via an advanced user interface.
- Increase uptime reliability through constant system monitoring.
- Achieve cleaner and healthier indoor air via IAQ-based ERV control.

Improve performance:

- Support effective and efficient ERV performance with real-time data trending and logging capabilities.
- Enhance ERV control via access to real-time airflow rates, airstream temperature and airstream humidity.
- Facilitate fast and easy ERV upkeep and maintenance with real-time fan, filter and bypass status.

Increase capabilities:

- Expand ERV connectivity via access to a wide range of open standard protocols, including BACnet and Modbus.
- Broaden ERV interoperability by connecting to third-party equipment and receiving third-party signals for unit control.
- Expand ERV-application scope by meeting new code requirements and the needs of institutional customers requiring DDC controls in mechanical equipment.

Simplify operations:

- Achieve easier ERV setup, commissioning and balancing via simple-to-install controls.
- Improve operational efficiencies by easily communicating ERV status, airflows, temperatures and humidity.
- Allow for more flexible installations by enabling ERVs to be interconnected with a BMS, operated independently or run in concert with other ERVs.

ACCESSORIES AVAILABLE WITH INTEGRATED PROGRAMMABLE CONTROLS

	STANDARD CONTROLS	ENHANCED CONTROLS	PREMIUM CONTROLS
CO2 sensor (wall or duct mount)*	◆		◆
IAQ sensor (wall or duct mount)*	◆		◆
Occupancy sensor (ceiling or wall mount)	◆		◆
Smoke detector (duct mount)	◆	◆	◆
BACnet factory activation (MS/TP or TCP/IP)		◆	◆
Remote display (handheld or wall mount)		◆	◆
Room Pressure Sensor (with or without display)			◆
Duct Static Pressure Sensor (with or without display)			◆
Temperature Sensor Kit (wall or duct mount)**			◆

NOTES

*Sensor output is 0-10 vdc, for use as on/off or modulating control.

**Temperature Sensor Kit is for use with non-integrated heating.

Specifications may be subject to change without notice.

OPTIONS

Integrated Programmable Controls

MODELS

STANDARD CONTROLS

via dry contact and relays

Our ERV units are provided with a dry contact that can be used to control the unit with a variety of low-voltage (24VAC) control devices such as remote switches or relays. In addition, third-party analog output can be used to operate the ERV.

ENHANCED CONTROLS

Carel [c.pCOMini] with or without BACnet

Enhanced controls offer automated control, including temperature and humidity control with data trending via microprocessor controls and sensors that enable BMS connectivity.

PREMIUM CONTROLS

Carel [c.pCOMini] with expansion module with or without BACnet

Premium controls include all functionality of Enhanced-controls capabilities, as well as airflow and IAQ monitoring, demand control, electric or gas heating options, as well as RD-Series cooling and heating control.

FEATURE COMPARISON

	STANDARD CONTROLS	ENHANCED CONTROLS	PREMIUM CONTROLS
Ability to automatically enable and disable unit	◆	◆	◆
Enable the exhaust fan only (See note 1)	◆	◆	◆
Filter alarm for both sets of filters (See note 2)	◆	◆	◆
Bypass controls [†] (See note 3)	◆	◆	◆
Control isolation dampers [†] (See note 4)	◆	◆	◆
Supply fan only modulation for VFD/EC Motor units [†] (See note 5 and 6)	◆	◆	◆
Exhaust fan only modulation for VFD/EC Motor units [†] (See note 5 and 6)	◆	◆	◆
Internal time clock (See note 7)	◆	◆	◆
Defrost controls - Canada only	◆	◆	◆
Smoke detection - sensor required (See note 8)	◆	◆	◆
Demand control ventilation using CO2 - sensor required	◆		◆
Occupancy-based ventilation - sensor required	◆		◆
IAQ control ventilation using VOC - sensor required	◆		◆
Microprocessor controller		◆	◆
Provide supply and exhaust air temperatures		◆	◆
Provide outside and return air temperature and humidity [†]		◆	◆
Fan status on both fans ^{††}		◆	◆
Enable the supply fan only [†]	◆	◆	◆
Enable the exhaust fan only [†]	◆	◆	◆
Micro USB port		◆	◆
Fieldbus port		◆	◆
BACnet MS/TP or BACnet TCP/IP - activation required		◆	◆
Modbus		◆	◆
Data trending		◆	◆
Outside airflow rate			◆
Exhaust airflow rate			◆
Space pressure control			◆
Duct pressure control			◆
Unit supply air temp			◆
Heating enable			◆
Heating modulation - staged or modulating			◆
Cooling modulation* - staged or modulating			◆

*RD-Series units only

[†]Not available on EV450

^{††}EF fan status not available on EV450

NOTES FOR STANDARD CONTROLS ONLY

1. Relays and terminal block (option).
2. Differential pressure sensing tube and pressure switch with manual trip point adjustment (option), wiring to switch and alarm indication provided by others.
3. Option on HE-Series (IN) and standard on RD-Series.
4. 24V transformer contactors and relays (option).

5. VFD (option). Factory installed and wired.
6. EC Motor (option) Potentiometer control factory wired.
7. Independent time clock (option).
8. External smoke detector (option), field installed in series to shut off unit in adverse conditions.

Specifications may be subject to change without notice.

ACCESSORIES

Standard Controls

Standard controls are intended to turn RenewAire commercial energy recovery ventilation systems on and off at appropriate times. Specification, installation and set-up is an easy process. RenewAire HE, LE, and RD Series units come standard with a 24 volt transformer/relay package for easy interface with all controls.

It is not necessary that RenewAire controls be used to operate RenewAire units. A wide range of controls or building automation systems may be used.

***Available with Standard or Integrated Programmable Controls.**

****Only available with Integrated Programmable Controls.**

DIGITAL TIME CLOCK*

- 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



TC7D-W
Wall Mount



TC7D-E Control In
NEMA 3R Enclosures

CO2 SENSORS*

- 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*

- 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*

- 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

SMOKE DETECTOR*

- Photoelectric type detector
- Plug-in sensor
- Round, square or rectangular duct mounting options
- Easy access test/reset button and LED display
- For 100-4000 fpm duct air velocity applications
- 24 VAC power requirement
- Interconnect feature for multi-fan shutdown
- Built-in short circuit protection



SD-D
Duct Mount

Specifications may be subject to change without notice.

ACCESSORIES

Controls Continued

REMOTE DISPLAY**

- ♦ Hand held or wall mount
- ♦ LED display
- ♦ Keypad for easy programming



RD-M
Handheld or Wall Mount

PRESSURE SENSORS (ROOM PRESSURE/DUCT STATIC PRESSURE)**

- ♦ With or without display
- ♦ Differential pressure transmitter
- ♦ 4-20 mA or field selectable 0-10 & 0.5V output signal
- ♦ Integral barbed tubing connections that fit 1/8" and 3/16" ID tubing



RPS-WOD/DPS-WOD
Wall/Duct Mount
without Display



RPS-WD/DPS-WD
Wall/Duct Mount
with Display

BACNET FACTORY ACTIVATION**

- ♦ Allows for communication to a BAS via Bacnet NS/TP
- ♦ Factory programmed and tested



TEMPERATURE SENSOR KIT**

- ♦ Duct temperature sensors
- ♦ Hermetically sealed 304SS probe
- ♦ Operating range -40F to 210F
- ♦ Easy installation with integral mounting plate



TS
Wall/Duct Mount

Engineered Combo Curbs

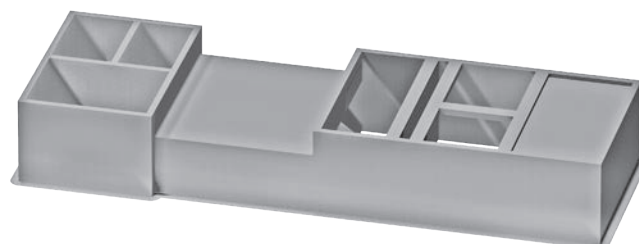
Exclusively designed for select Trane (Voyager and Precedent) and Carrier (WeatherExpert, WeatherMaster, and Weathermaker) models, RenewAire's engineered combo curb makes it easy to combine standard Air Handling Unit (AHU) rooftop applications with the benefits of RenewAire energy recovery ventilation. They eliminate the need for transitional ductwork between the RTU and the ERV, reducing the time and costs of installation. Simply install the curb, run the return and supply duct to the curb openings, then install the AHU and RenewAire units onto the curb. Additionally, the curbs allow the AHU unit to function in its standard operation as well as full-flow economizer modes.

Standard Construction

- ♦ Prime G-90, 18-gauge galvanized steel
- ♦ Fully welded and mitered corners (single piece curb lift)
- ♦ Base flange attachments for securing to the building structure
- ♦ 1 1/2" 3 lb. density fiberglass insulation
- ♦ Reinforced with cross channel supports on center
- ♦ Conforms to ASTM A653/A653M (standard specification for sheet metal)

Available Options (Special Order)

- ♦ Seismic and/or wind load applications
- ♦ Pitched roof applications
- ♦ High vibration applications
- ♦ Custom curb heights
- ♦ Heavier metal gauges
- ♦ Aluminum liners



ACCESSORIES

Hoods and Dampers

FA10-G & FA12-G

- ♦ 10" or 12" wall cap
- ♦ Galvanized finish
- ♦ Hood type wall cap
- ♦ 1/4" metal screen



FA10-P & FA12-P

- ♦ 10" or 12" wall cap
- ♦ Galvanneal finish
- ♦ Paintable
- ♦ 1/4" metal screen



VW12X12

- ♦ 12" x 12" x 10" round louver
- ♦ Galvanized finish
- ♦ Flush mount
- ♦ 1/2" metal screen



BD10 & BD12

- ♦ 10", 12" backdraft damper
- ♦ Male/female ends
- ♦ Mechanical "butterfly" design



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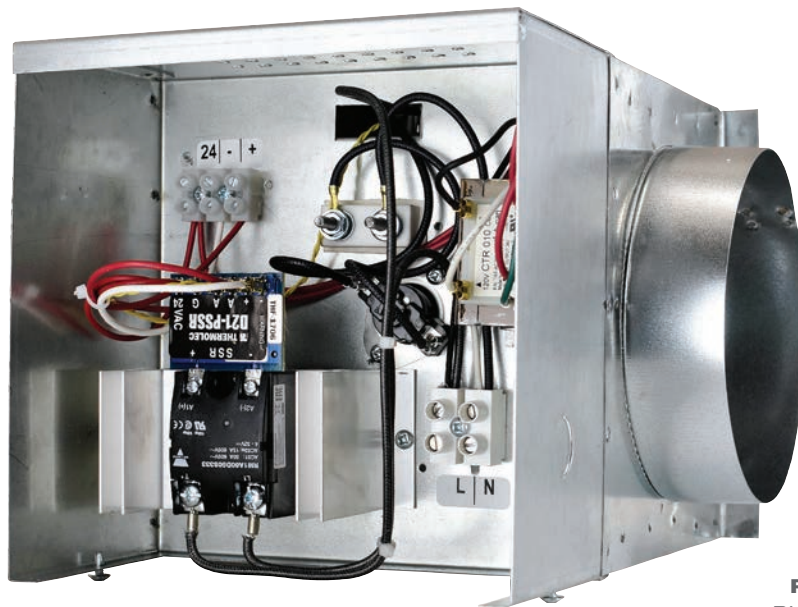


ACCESSORIES

RH Series Electric Duct Heater

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

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



RH SERIES
RH-W SHOWN

KEY BENEFITS

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

Specifications may be subject to change without notice.

RH SERIES

ELECTRIC DUCT HEATER

NEW

Electric Duct Heater (1-11.5 kW)

Accessory

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

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



RH-D (Integral Thermostat)

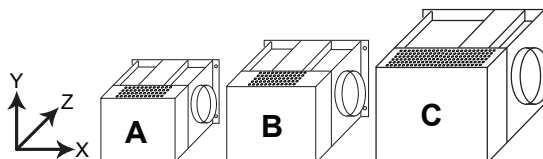


RH-W (Wall Mount Thermostat)

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

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

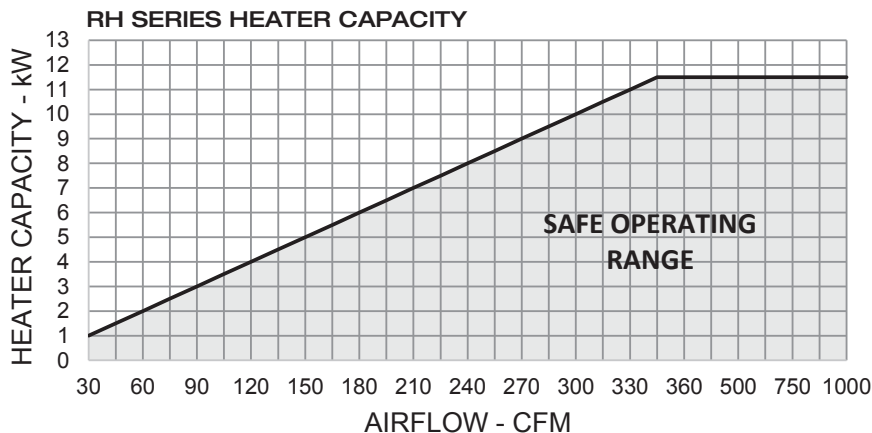
Download specification at:
renewaire.com/specifications



DIMENSIONS IN INCHES

SIZE	X	Y	Z
A	11.5	8.0	11.5
B	11.5	10.0	13.5
C	15.5	12.0	15.5

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



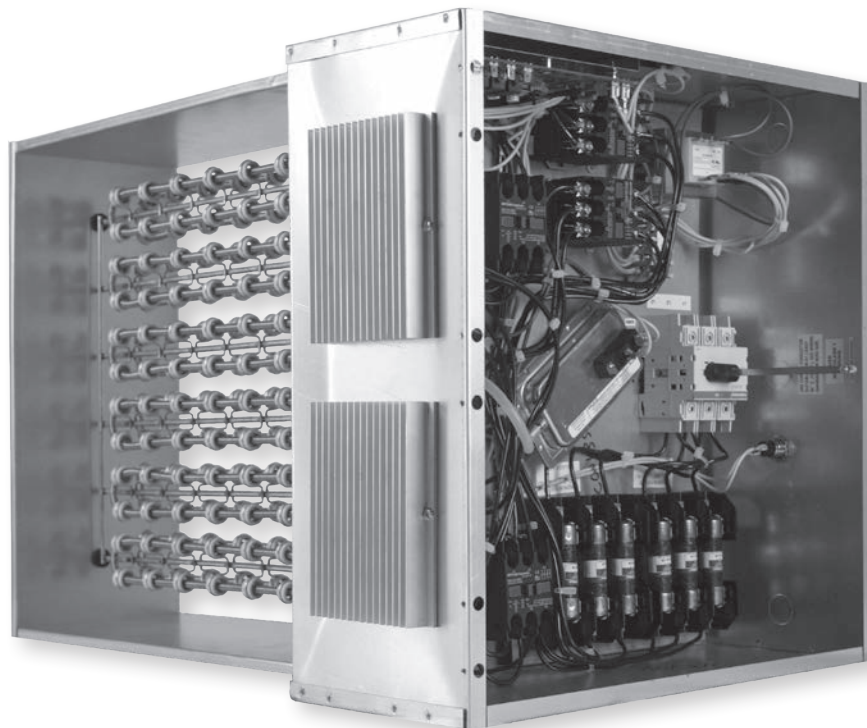
Specifications may be subject to change without notice.

ACCESSORIES

EK Series Electric Duct Heater

AVAILABLE ON ALL 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 **CONFIGURABLE ELECTRIC DUCT HEATERS** as an accessory to our 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.



FLIPPABLE
EK SERIES
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:** UL Listed (UL1996 Standard) and CSA certified.

Specifications may be subject to change without notice.

EK SERIES

ELECTRIC DUCT HEATER



Download specification at:
renewaire.com/specifications

Electric Duct Heater (1-175 kW) Accessory



SPECIFICATIONS

Heater Type:

Electric Duct Heater

Typical KW Range:

1-175 kW

Standard Features:

A disconnecting magnetic control contactor per stage or each 48 Amp circuit within a stage
Open-coil element
Staged on/off
Control terminal board
Grounding lugs
Automatic limit switch for primary over-temperature protection
Manual reset limit switch for secondary over-temperature protection
Non-adjustable airflow switch
Standard control transformer - 24 VAC
Disconnect switch
Duct thermostat with sensor for on/off control
60-20-20 (Ni/Cr/Fe) C Grade element wire with nickel-plated terminals
Slip-in mount
No left/right hand
Vertical up/down flow

Voltages & Phase:

Single phase - 120, 208, 240, 277
Three phase - 208, 240, 480, 600

Control Voltage:

24 VAC

Dimensions:

Minimum - 8" x 8" (W x H)
Maximum - 99" x 99" (W x H)

Options:

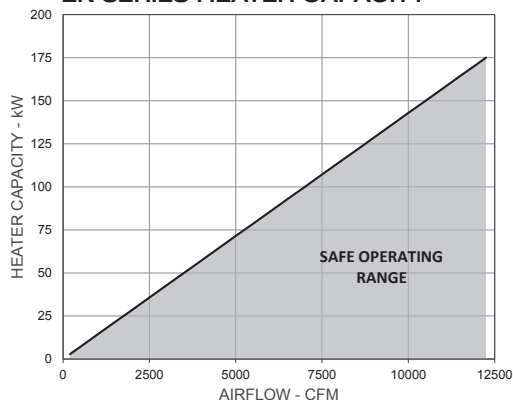
Flange mount
80-20 (Ni/Cr) A Grade element wire with stainless steel terminals
Recessed control box 1"
Gasketed cover - dust tight
Power fusing, standard for heaters drawing more than 48 Amps
2-stage
Electronic step controller (4-stage)
SCR (up to 96 Amps)
SCR Vernier (over 96 Amps)
Pilot light

Accessory:

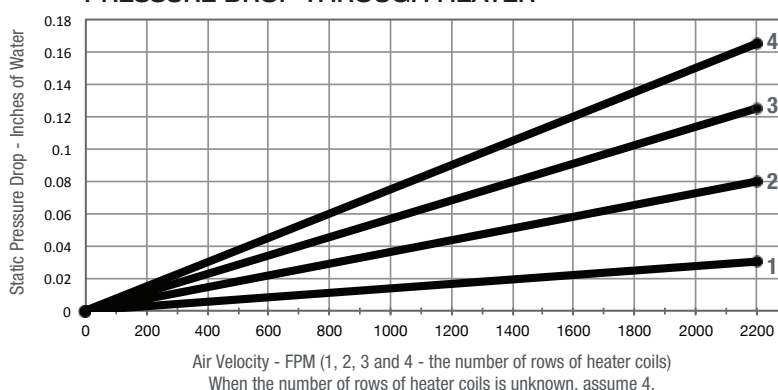
Room thermostat
Room/duct thermostat-sensor kit for SCR control

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

EK SERIES HEATER CAPACITY

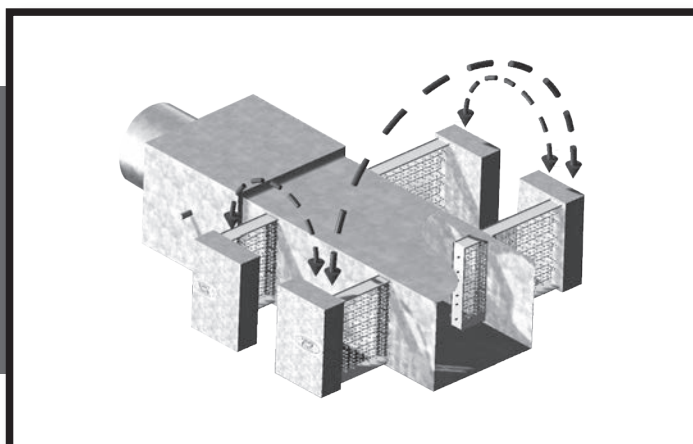


PRESSURE DROP THROUGH HEATER



FLIPPABLE CAPABILITIES

Unique to the EK series, this unit has the ability to flip 180°. Additionally, EK heaters feature both vertical up and vertical down airflow.



Specifications may be subject to change without notice.

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ACCESSORIES

Indirect Gas-Fired Duct Furnace

AVAILABLE ON ALL COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)

RenewAire offers some of 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 providing an indoor and outdoor **INDIRECT GAS-FIRED DUCT FURNACE** as an accessory for our commercial ERVs, in addition to the Electric Duct Heater, RenewAire ERVs now have increased flexibility for controlling supply-air temperature during cooler months. This enhances indoor comfort, makes ERV installations easier and is possible via a single source for ERVs and furnaces.



GH OUTDOOR SERIES
SHOWN

KEY BENEFITS

- ♦ **A single source for your ERV and furnace 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, as well as streamlines logistics for design engineers and contractors.
- ♦ **Increased capabilities and flexibility:** RenewAire offers design engineers the capacity to specify ERVs with a matching indoor or outdoor gas-fired furnace to increase ERV capabilities and flexibility for providing a single space or multiple spaces with tempered air conditions to equal wintertime loads.
- ♦ **More and easier applications:** The addition of the indoor and outdoor indirect gas-fired duct furnace as an option ensures that RenewAire ERVs can be easily specified on more applications that require gas heating of the recovered air.
- ♦ **Expert guidance:** The RenewAire customer-support team will provide detailed and expert guidance for how best to install the indoor and outdoor gas-fired duct furnace with an ERV.
- ♦ **Ultimate reliability:** RenewAire furnaces 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:** ETL-listed to the requirements of ANSI Z83.8/ CSA 2.6.



Indirect Gas-Fired Duct Furnace Accessory



INDOOR

Indirect Gas-Fired Duct Furnace



Indoor IN-KI shown

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Heater Type:

Indirect Gas-Fired Duct Furnace

Typical Input Capacity (MBH):

50, 75, 100, 125, 150, 175,
200, 250, 300, 350, 400

Standard Features:

Tubular heaters
Indirect natural gas fired
Indoor installation
80% thermal efficiency
Horizontal airflow
Rated for elevations from 0 – 2,000 ft.
409 stainless steel heat exchanger
409 stainless steel burners
Flue/combustion air – indoor models
Vertical (separated indoor)
Vertical top exhaust with louvered intake
Direct spark ignition
1-stage/2-stage gas controls
Induced draft venting
Terminal block for power and control wiring
Automatic high limit safety shut-off
Auxiliary manual high limit switch
Combustion air pressure switch
Air proving switch
Combination gas valve with shutoff

Standard Features (continued):

Flame rollout switch
Manual shut off valve
3/8" condensate drain connection

Voltages & Phase:

Single phase - 120V, 208V, 230V

Control Voltage:

24 VAC

Dimensions:

See table 2

Shipping:

Shipped loose with base unit and installed in the field

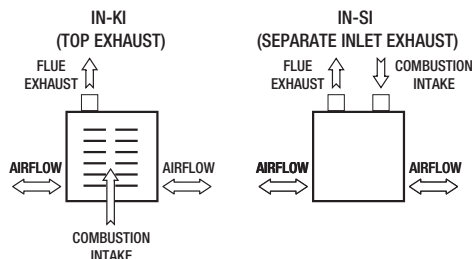
Options:

Indirect propane fired fuel
Elevation correction for elevation > 2,000 ft.
304 stainless steel heat exchanger
5:1 continuous electronic modulation for all furnaces
10:1 continuous electronic modulation for furnaces
200 MBH and larger
Duct thermostat for modulation control
Disconnect switch
Power fusing

Accessory:

Duct thermostat for 1-stage/2-stage control
Duct thermostat for modulation control

FLUE AND COMBUSTION AIR CONFIGURATION



Note: The total equivalent length of vent pipe must not exceed 50 feet. If equivalent length exceeds 50 feet refer to IOM for recommendations.

Caution: All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

TEMPERATURE RISE AND PRESSURE DROP

FIGURE 1 GAS FURNACE 50-200 MBH

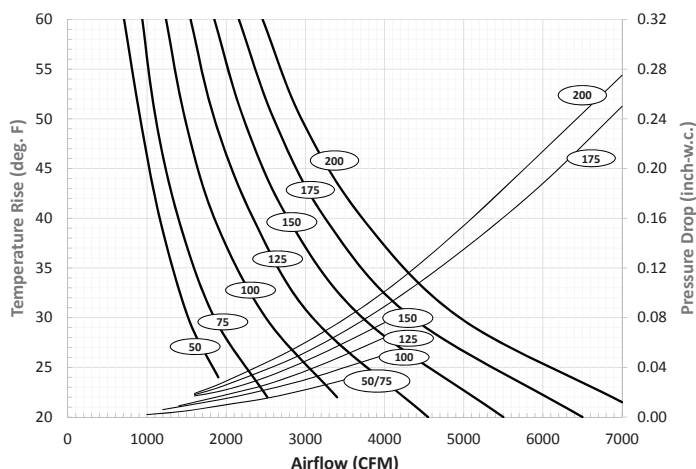
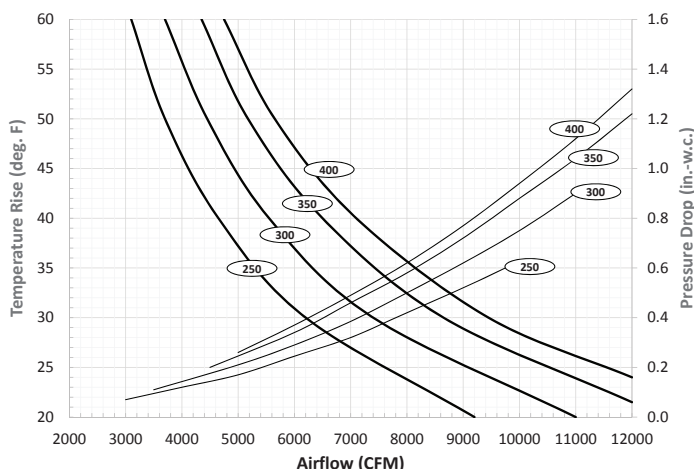


FIGURE 2 GAS FURNACE 250-400 MBH



Specifications may be subject to change without notice.

DUCT FURNACE DIMENSIONS

FIGURE 3 IN-KI (TOP EXHAUST INDOOR)

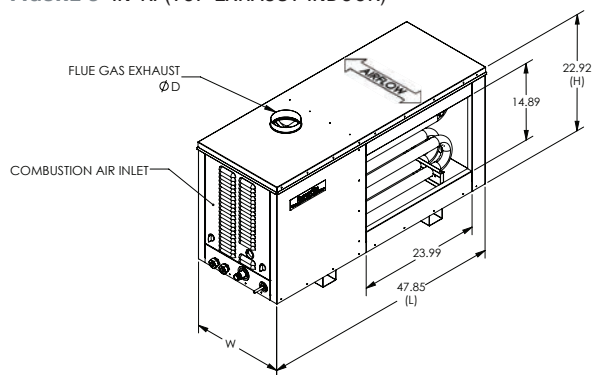


FIGURE 4 IN-SI (SEPARATE INLET EXHAUST INDOOR)

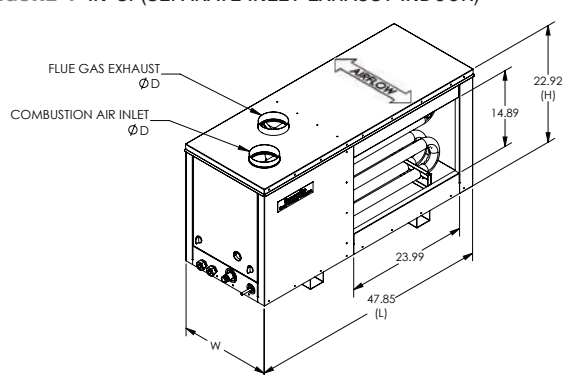
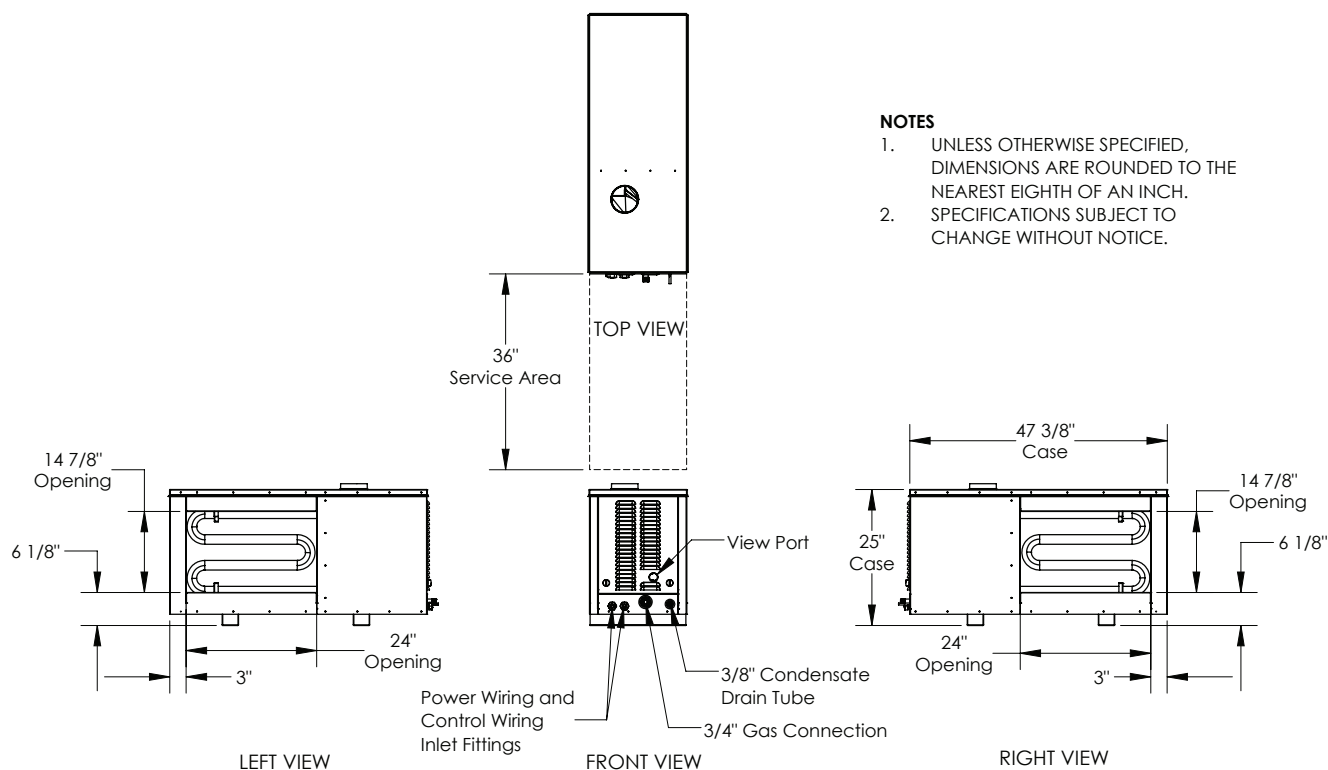


TABLE 2

Size	Tubes	Input Rate	Output	Min/Max Temperature Rise through Furnace (°F)									Vent Locations				Unit Weight	Shipping Weight
				20	25	30	35	40	45	50	55	60	IN-KI, IN-SI			Diameter		
				Nom. Duct Opening Airflow (CFM)									"W"	"L"	"H"	"D"		
MBH	Qty.	Btuh	Btuh										inch	inch	inch	inch	lb	lb
50	3	50,000	40,000	1852	1481	1235	1058	926	823	741	673	617	15.7	47.8	22.9	5	127	207
75	3	75,000	60,000	2778	2222	1852	1587	1389	1235	1111	1010	926	15.7				127	207
100	4	100,000	80,000	3704	2963	2469	2116	1852	1646	1481	1347	1235	18.4				142	222
125	5	125,000	100,000	4630	3704	3086	2646	2315	2058	1852	1684	1543	21.2				169	249
150	6	150,000	120,000	5556	4444	3704	3175	2778	2469	2222	2020	1852	23.9				160	240
175	7	175,000	140,000	6481	5185	4321	3704	3241	2881	2593	2357	2160	26.7				180	260
200	8	200,000	160,000	7407	5926	4938	4233	3704	3292	2963	2694	2469	29.4	47.8	22.9	6	196	276
250	10	250,000	200,000	9259	7407	6173	5291	4630	4115	3704	3367	3086	34.9				245	325
300	12	300,000	240,000	11111	8889	7407	6349	5556	4938	4444	4040	3704	40.4				279	384
350	14	350,000	280,000	12963	10370	8642	7407	6481	5761	5185	4714	4321	45.9				324	429
400	15	400,000	320,000	14815	11852	9877	8466	7407	6584	5926	5387	4938	48.7				394	499

Note: For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS



GH OUTDOOR Indirect Gas-Fired Duct Furnace Accessory



ROOFTOP

Indirect Gas-Fired Duct Furnace



Rooftop RT-NO shown

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Heater Type:

Indirect Gas-Fired Duct Furnace

Typical Input Capacity (MBH):

50, 75, 100, 125, 150, 175,
200, 250, 300, 350, 400

Standard Features:

Tubular heaters
Indirect natural gas fired
Outdoor installation
80% thermal efficiency
Horizontal airflow
Rated for elevations from 0 – 2,000 ft.
409 stainless steel heat exchanger
409 stainless steel burners
Flue/combustion air – outdoor models
Horizontal separated outdoor with hoods
Vertical top exhaust with intake hood
Direct spark ignition
2-stage gas controls
Induced draft venting
Terminal block for power and control wiring
Automatic high limit safety shut-off
Auxiliary manual high limit switch
Combustion air pressure switch
Air proving switch

Standard Features (continued):

Combination gas valve with shutoff
Flame rollout switch
Manual shut off valve
3/8" condensate drain connection

Voltages & Phase:

Single phase - 120V, 208V, 230V

Control Voltage:

24 VAC

Dimensions:

See table 1

Shipping:

Shipped loose with base unit and installed in the field

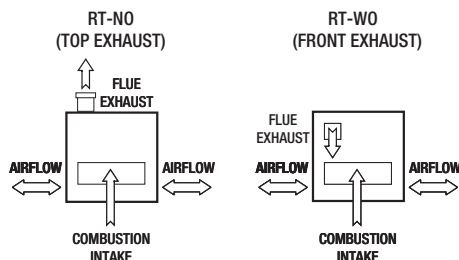
Options:

Indirect propane fired fuel
Elevation correction for elevation > 2,000 ft.
304 stainless steel heat exchanger
5:1 continuous electronic modulation for all furnaces
10:1 continuous electronic modulation for furnaces
200 MBH and larger
Duct thermostat for modulation control
Disconnect switch
Power fusing

Accessory:

Duct thermostat for 2-stage control
Duct thermostat for modulation control
Duct curb

FLUE AND COMBUSTION AIR CONFIGURATION



Caution: All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

TEMPERATURE RISE AND PRESSURE DROP

FIGURE 1 GAS FURNACE 50-200 MBH

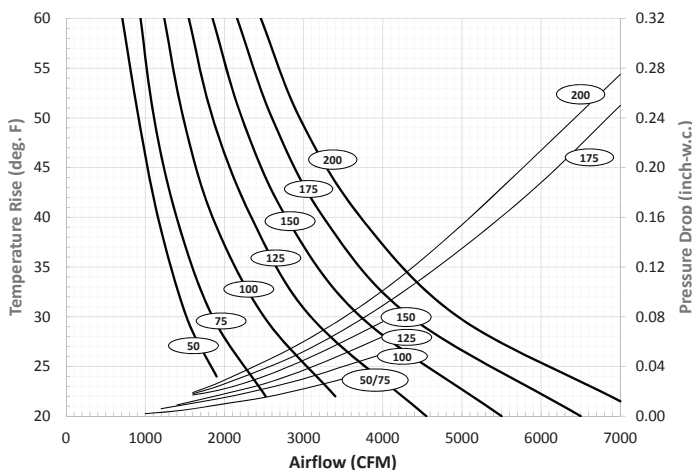
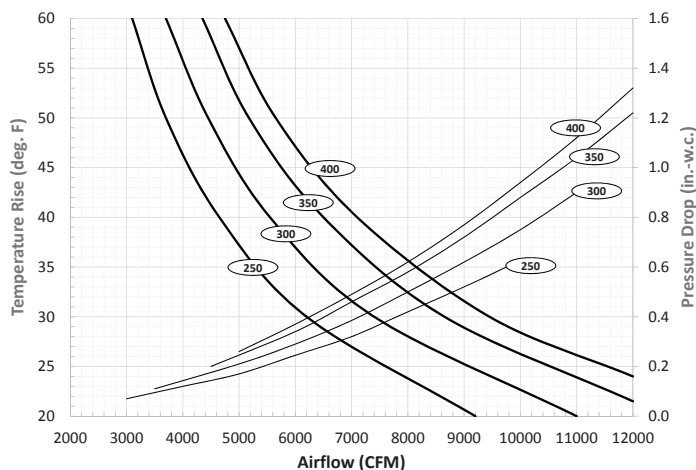


FIGURE 2 GAS FURNACE 250-400 MBH



Specifications may be subject to change without notice.

DUCT FURNACE DIMENSIONS

FIGURE 3 RT-NO (TOP EXHAUST OUTDOOR)

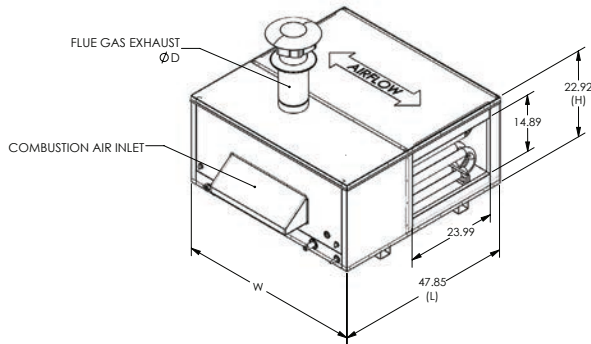


FIGURE 4 RT-WO (FRONT EXHAUST OUTDOOR)

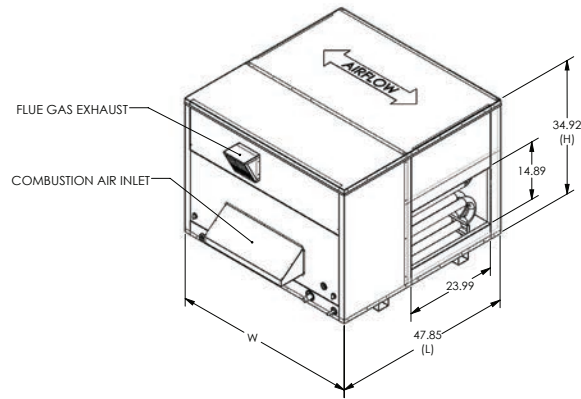
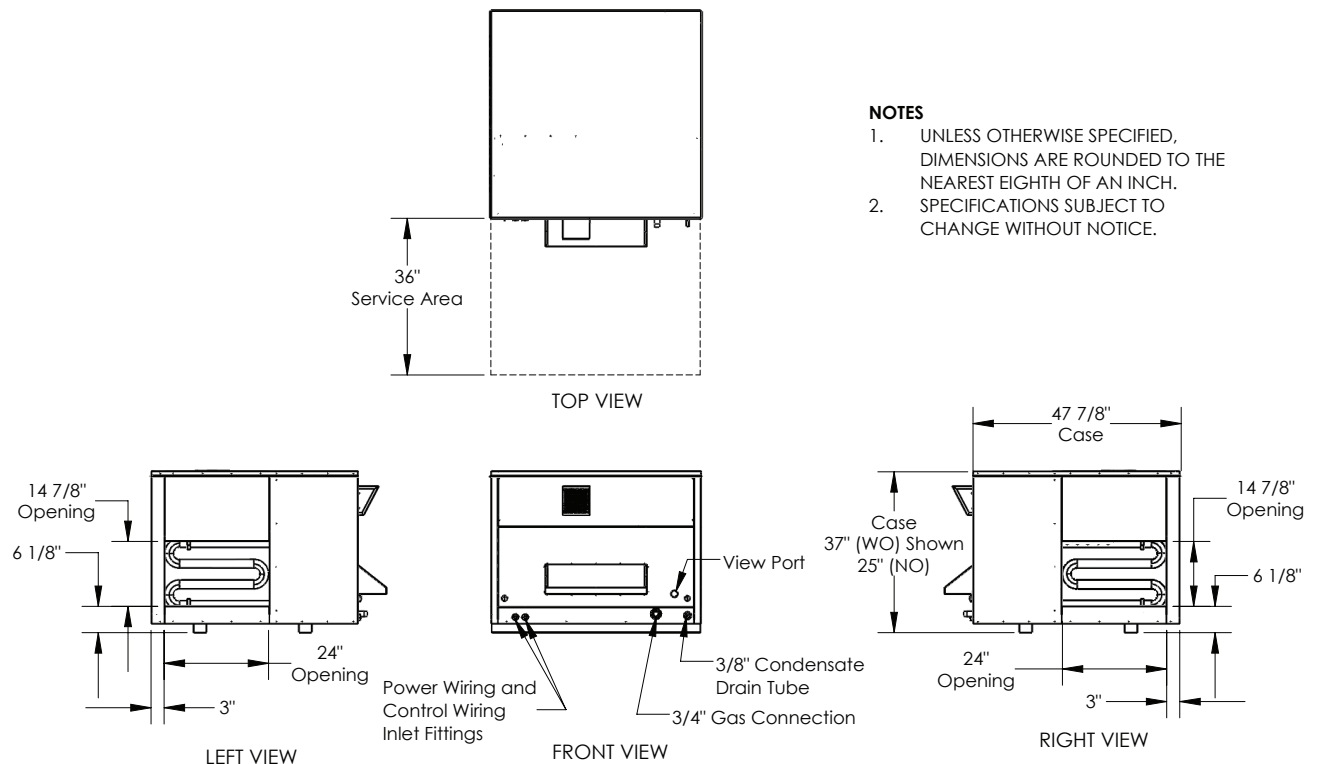


TABLE 1

Size	Tubes	Input Rate	Output	Min/Max Temperature Rise through Furnace (°F)									Vent Locations				Unit Weight	Shipping Weight	
				20	25	30	35	40	45	50	55	60	RT-NO, RT-WO		RT-NO	RT-WO			Diameter
													"W"	"L "	"H"	"H"			"D"
MBH	Qty.	Btuh	Btuh	Nom. Duct Opening Airflow (CFM)									inch	inch	inch	inch	inch	lb	lb
50	3	50,000	40,000	1852	1481	1235	1058	926	823	741	673	617	15.7	47.8	22.9	34.9	5	127	207
75	3	75,000	60,000	2778	2222	1852	1587	1389	1235	1111	1010	926	15.7					127	207
100	4	100,000	80,000	3704	2963	2469	2116	1852	1646	1481	1347	1235	18.4					142	222
125	5	125,000	100,000	4630	3704	3086	2646	2315	2058	1852	1684	1543	21.2					169	249
150	6	150,000	120,000	5556	4444	3704	3175	2778	2469	2222	2020	1852	23.9					160	240
175	7	175,000	140,000	6481	5185	4321	3704	3241	2881	2593	2357	2160	26.7					180	260
200	8	200,000	160,000	7407	5926	4938	4233	3704	3292	2963	2694	2469	29.4	47.8	22.9	34.9	6	196	276
250	10	250,000	200,000	9259	7407	6173	5291	4630	4115	3704	3367	3086	34.9					245	325
300	12	300,000	240,000	11111	8889	7407	6349	5556	4938	4444	4040	3704	40.4					279	384
350	14	350,000	280,000	12963	10370	8642	7407	6481	5761	5185	4714	4321	45.9					324	429
400	15	400,000	320,000	14815	11852	9877	8466	7407	6584	5926	5387	4938	48.7					394	499

Note: For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS



NOTES

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

AHRI 1060

CERTIFIED PERFORMANCE

Energy recovery component certified in accordance with AHRI Standard 1060-2013.
Actual performance in packaged equipment may vary.



AHRI-1060 Certified Performance - Model Number L125-G5

Type			Tilt Angle		Nominal Airflow				Pressure Drop			
Plate			N/A		100% - 750 SCFM 75% - 563 SCFM				0.65 in. H ₂ O			
Leakage Ratings				Thermal Effectiveness Ratings at 0" Pressure Differential								
Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow		Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
-1 in. H ₂ O	1.0%	1.00	N/A	750 CFM	Heating	70%	52%	64%	750 CFM	70%	52%	64%
					Cooling	70%	42%	53%		70%	42%	53%
0 in. H ₂ O	0.0%	1.02	N/A	563 CFM	Heating	74%	59%	69%	563 CFM	74%	59%	69%
					Cooling	74%	49%	58%		74%	49%	58%
1 in. H ₂ O	0.0%	1.05	N/A									

AHRI-1060 Certified Performance - Model Number L85-G5

Type				Tilt Angle				Nominal Airflow				Pressure Drop			
Plate				N/A				100% - 500 SCFM 75% - 375 SCFM				0.65 in. H ₂ O			
Leakage Ratings				Thermal Effectiveness Ratings at 0" Pressure Differential											
Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow		Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total			
-1 in. H ₂ O	1.0%	1.00	N/A	500 CFM	Heating	70%	52%	64%	500 CFM	70%	52%	64%			
0 in. H ₂ O	0.0%	1.02	N/A		Cooling	70%	42%	53%		70%	42%	53%			
1 in. H ₂ O	0.0%	1.05	N/A	375 CFM	Heating	74%	59%	69%	375 CFM	74%	59%	69%			
					Cooling	74%	49%	58%		74%	49%	58%			

AHRI-1060 Certified Performance - Model Number L62-G5

Type			Tilt Angle			Nominal Airflow			Pressure Drop			
Plate			N/A			100% - 350 SCFM 75% - 263 SCFM			0.65 in. H ₂ O			
Leakage Ratings				Thermal Effectiveness Ratings at 0" Pressure Differential								
Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow		Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
-1 in. H ₂ O	1.0%	1.00	N/A	350 CFM	Heating	70%	52%	64%	350 CFM	70%	52%	64%
0 in. H ₂ O	0.0%	1.02	N/A		Cooling	70%	42%	53%		70%	42%	53%
1 in. H ₂ O	0.0%	1.05	N/A	263 CFM	Heating	74%	59%	69%	263 CFM	74%	59%	69%
				Cooling	74%	49%	58%					

NOTE: SCFM = Standard Cubic Feet per Minute OACF = Outdoor Air Correction Factor EATR = Exhaust Air Transfer Ratio N/A = Not Applicable

MODEL NUMBER					J			-						-	-					-					
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Digits 1 - 5:	Model
"EV450", "HE-1X", "HE1.5", "HE-2X", "HE-3X", "HE-4X", "HE-6X", "HE-8X"	
Digits 7 - 8:	Location
"IN" = Indoor "RT" = Rooftop	
Digit 9:	Orientation (see Restriction 1)
"V", "H" (Indoor Units) "V", "H", "R", "F", "C" (Rooftop Units) "-" = Default in EV450	
Digit 11:	Wall Type
"S" = Single "D" = Double	
Digit 12:	Phase (see Restriction 7)
"1" = Single Phase "3" = Three Phase	
Digit 13:	Voltage (see Restrictions 2, 3, 4, 5, 6 & 18))
"1" = 115V "4" = 460V "5" = 208-230V "8" = 575V "9" = 277V	
Digit 14:	FA Horsepower (see Restriction 7 & 18)
"-" = Standard EV450 Motors "H" = 0.75 HP Standard Direct-Drive Motors (HE-1X only) "E" = EC Direct Drive Motors (EV450, HE-1X and HE1.5 only) "S" = Standard Impellers (HE1.5 only) "U" = 1.5HP (HE-2X only) "V" = 2HP (HE-2X, HE-3X, HE-4X only) "W" = 3HP (HE-3X, HE-4X only) "X" = 5HP (HE-3X, HE-4X, HE-6X, HE-8X only) "Y" = 7.5HP (HE-6X, HE-8X only) "Z" = 10HP (HE-8X only)	
Digit 15:	EA Horsepower (see Restriction 7 & 18)
"-" = Standard EV450 Motors "H" = 0.75 HP Standard Direct-Drive Motors (HE-1X only) "E" = EC Direct Drive Motors (EV450, HE-1X and HE1.5 only) "S" = Standard Impellers (HE1.5 only) "U" = 1.5HP (HE-2X only) "V" = 2HP (HE-2X, HE-3X, HE-4X only) "W" = 3HP (HE-3X, HE-4X only) "X" = 5HP (HE-3X, HE-4X, HE-6X, HE-8X only) "Y" = 7.5HP (HE-6X, HE-8X only) "Z" = 10HP (HE-8X only)	

Digit 18:	Flow Control * (see Restrictions 11, 12, & 14)
"." = No Isolation Dampers (with no Bypass) "D" = Motorized Damper both Airstreams (with no Bypass) "E" = Motorized Damper EA or RA Airstream (with no Bypass) "F" = Motorized Damper FA or OA Airstream (with no Bypass) "S" = Backdraft Damper OA Airstream (with no Bypass) "R" = Backdraft Damper EA Airstream (with no Bypass) "B" = Backdraft Damper both Airstreams (with no Bypass) "T" = Motorized Damper OA, Backdraft Damper EA (with no Bypass) "0" = Dry Bulb Bypass Dampers only "1" = Dry Bulb Bypass with Motorized Dampers all Airstreams "4" = Dry Bulb Bypass with Backdraft Damper OA Airstream "5" = Enthalpy Bypass Dampers only "6" = Enthalpy Bypass with Motorized Dampers all Airstreams "9" = Enthalpy Bypass with Backdraft Damper OA Airstream	
Digit 19:	Unit Control (see Restrictions 8, 9, 10, 15, & 16)
"A" = Standard Unit Control Wiring "D" = Independent Blower Control (HE-1X and HE1.5 only) "V" = Onboard VFD Both Airstreams "F" = Onboard VFD FA Airstream "E" = Onboard VFD EA Airstream "G" = Terminal Strip for EC Motors or Impellers	
Digit 20:	Unit Fusing
"N" = Non-Fused (Standard) "F" = Fused	
Digit 21:	Unit Control Enhancements (see Restrictions 16 & 17)
"T" = Transformer with Isolation Relay (Standard) "1" = Enhanced Controls "2" = Premium Controls "3" = Enhanced Controls with BACNET License "4" = Premium Controls with BACNET License	
Digit 22:	Filter Options (see Restriction 17)
"" = None "F" = Filter Monitor Both Airstreams	
Digit 23:	Other Options
"" = None (Reserved)	
Digit 24:	Paint and Customization
"" = None "W" = White Paint "C" = Custom Paint "X" = Custom Unit	
Digit 25:	Safety Listing (see Restriction 13)
"L" = Listed "N" = Non-Listed	

*Digit 18: Flow Control: Codes for Bypass: Face damper also acts as isolation damper in EA or RA Airstream.

Restrictions:
1: Orientation Code "C" not available with models EV450, HE-6X, HE-8X, HE1.5 2: Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase). 3: Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase). 4: Voltage Code "9" (277V) only available with EV450, HE-1X & HE1.5 models. 5: Voltage Code "8" (575V) not available with EV450, HE-1X & HE1.5 models. 6: Voltage Code "1" only available with FA/EA Horsepower Codes "EE", "E-", "H", "S", "U", "V" & "-". 7: Motor Codes "E-" & "EE" (EC Motors) only available with Phase Code "1" (Single Phase) 8: Unit Control Codes "V, F & E" not available in EV450, HE-1XIN, HE1.5IN & HE-1XRTC. 9: Unit Control Code "G" (Terminal Strip) only available in EV450, HE-1X & HE1.5 with Motor Codes "E-" and "EE" (EC Motors). 10: Unit Control Code "D" only available in HE-1X & HE1.5. 11: Dampers and Bypass not available in EV450 or with Orientation Code "C". 12: Backdraft Dampers only available with HE1.5 models. 13: Some units with Customization Code "X", HE-6X & HE-8X models are not safety listed. 14: Bypass only available with Location Code "IN". 15: Unit Control Codes "V", "E" & "F" not available with Voltage Code "1". 16: Unit Control "A" not available with Unit Control Enhancements Codes "1", "2", "3" & "4" in HE-1X and HE-1.5 models. 17: Filter Code "F" not available with Unit Control Enhancements Codes "1", "2", "3" & "4". Filter Monitor is provided with those options. 18: Voltage Code "9" not available with FA/EA Horsepower Codes "EE" & "E-".



RenewAire®
Energy Recovery Ventilation

GH SERIES INDIRECT GAS-FIRED DUCT FURNACE CONFIGURATION GUIDE

Note: Not all options are available on every model.

MODEL NUMBER			-																	-			-		
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Digits 1 - 2:	Duct Furnace Type
"GH" = Gas Furnace 50-400 MBH	
Digits 4 - 5:	Location
"IN" = Indoor "RT" = Rooftop	
Digits 6 - 7:	Vent Location
"SI" = Separated Top Indoor "KI" = Top Exhaust Indoor "WO" = Front Exhaust Outdoor "NO" = Top Exhaust Outdoor	
Digits 8 - 10:	Input Capacity in MBH
"050", "075", "100", "125", "150", "175", "200", "250", "300", "350", "400"	
Digit 11:	Fuel Type
"N" = Natural Gas (Standard) "P" = Propane	
Digits 12 - 13:	Tube Material
"SS" = 409 Stainless Steel (Standard) "CS" = 304 Stainless Steel	
Digit 14:	Airflow Orientation
"H" = Horizontal	
Digit 15:	Thermal Efficiency
"S" = 80%	
Digit 16:	Elevation
"S" = 0 - 2000' (Standard) "2" = 2001' - 3000' "3" = 3001' - 4000' "4" = 4001' - 5000' "5" = 5001' - 6000' "6" = 6001' - 7000' "Y" = 7001' and above	

Digit 17:	Disconnect Switch
"N" = None (Standard) "D" = Disconnect Switch	
Digit 18:	System/Inducer Voltage (see Restriction 2)
"1" = 115V "2" = 208V "3" = 230V	
Digit 19:	Phase
"1" = Single Phase	
Digit 20:	Power Fusing (see Restriction 3)
"N" = None "F" = Fusing	
Digit 22:	Control Voltage
"S" = 24VAC	
Digit 23:	Control Type (see Restriction 1)
"T" = Two Stage High/Low with Thermostat (Standard) "S" = Single Stage On/Off with Thermostat "E" = Modulating 5:1 (Natural Gas)/3:1 (Propane) with Thermostat "W" = Modulating 10:1 (Natural Gas)/6:1 (Propane) with Thermostat "2" = Two Stage High/Low without Thermostat "1" = Single Stage On/Off without Thermostat "M" = Modulating 5:1 (Natural Gas)/3:1 (Propane) without Thermostat "V" = Modulating 10:1 (Natural Gas)/6:1 (Propane) without Thermostat	

***NOTE:**

Digits 3, 21, 24 & 25 are not used in this model.

All heaters come with standard features: Air Proving Switch, Auxiliary High Temperature Limit Switch
Descriptions of feature and options are found in the installation and operation manual.

Restrictions:	
1. Control Type Code "V" & "W" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150" & "175". 2. System/Inducer Voltage Code "2" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150", "175" & "200". 3. Power Fusing Code "F" only available with Disconnect Switch Code "D". Power Fusing Code "F" always selected when Disconnect Switch Code "D" is selected.	

For Technical Support E-mail: RenewaireSupport@renewaire.com
To Place an Order E-mail: RenewaireOrders@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



**BETTER
HEALTH**



**IMPROVED
COGNITIVE
FUNCTION**



**INCREASED
PRODUCTIVITY**



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

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.

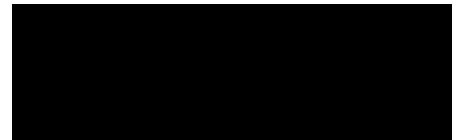
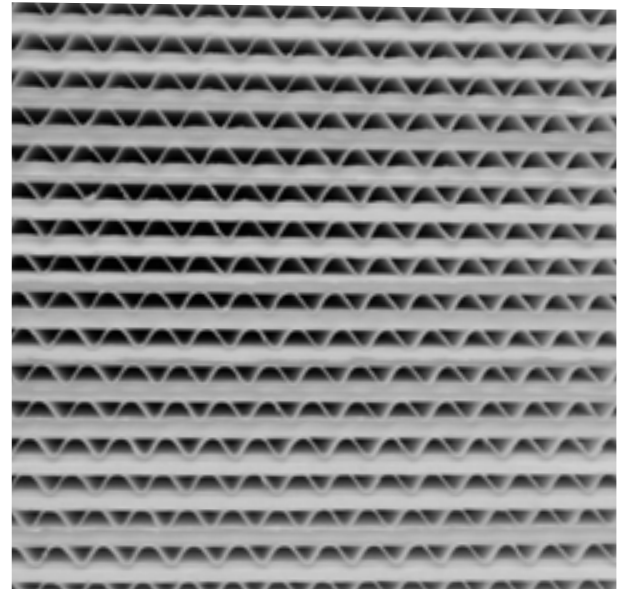
GOVERNMENT

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



LIT114_00 (01/19)



LE SERIES

COMMERCIAL ERV CATALOG

JANUARY 2019

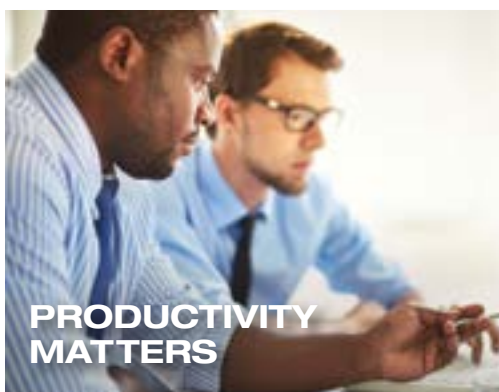
RENEWAIRE.COM | 800.627.4499

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 ERV technologies. 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 (CO₂)—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) that **optimize energy efficiency**, lower capital costs via **HVAC load reduction** and **decrease operational expenses** by minimizing equipment needs, resulting in significant energy savings. Our ERVs 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

LE SERIES - Commercial Unitary ERV

MODEL	TYPE	CFM RANGE	PAGE
LE6XINH - STANDARD	Indoor	1,500-6,600 CFM	4-5
LE6XINV - STANDARD	Indoor	1,500-6,600 CFM	6-7
LE6XRT - STANDARD	Rooftop	1,500-6,600 CFM	8-10
LE8XINH - STANDARD	Indoor	2,000-8,800 CFM	12-13
LE8XINV - STANDARD	Indoor	2,000-8,800 CFM	14-15
LE8XRT - STANDARD	Rooftop	2,000-8,800 CFM	16-18
LE10XINH - STANDARD	Indoor	2,500-11,000 CFM	20-21
LE10XINV - STANDARD	Indoor	2,500-11,000 CFM	22-23
LE10XRT - STANDARD	Rooftop	2,500-11,000 CFM	24-26

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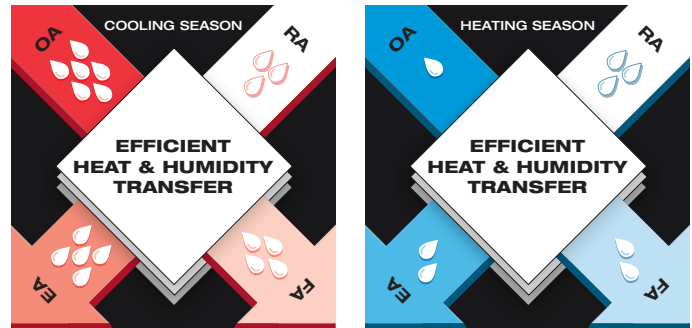


RENEWAIRE ERVs ACHIEVE SUSTAINABLE IAQ

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 zero exhaust air transfer at normal balanced operating conditions. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

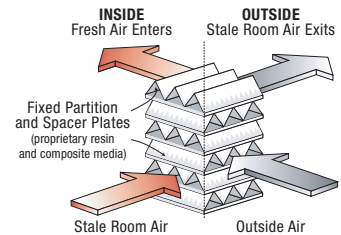
OPTIMIZING ENERGY EFFICIENCY

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 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



LE 6XINH

INDOOR UNIT



LE6XINH shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,600 CFM

AHRI 1060 Certified Core: Six L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters: Total qty. 12, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

81 1/2" L x 125 1/2" W x 71 1/4" H
Modular (per module) 943-1,367 lbs., varies by option(s)
Assembled (1-piece) 1,975-2,630 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 80" L x 90" W x 78" H
Module 1 - 1,508 lbs., Module 2 - 1,406 lbs.
Assembled (1-piece) 160" L x 90" W x 78" H - 2,630 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

Options:

Spring vibration isolators
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Airflow CFM	External Static Pressure (in.w.g.)																			
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00			
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM		
										3 HP LOW SPEED		3 HP MED SPEED				3 HP HIGH SPEED				
1500										0.9	820	1.1	900	1.3	960	1.4	1020	1.6	1080	5 HP MED SPEED
2000										1.1	850	1.3	930	1.5	990	1.7	1050	1.9	1100	
2500							1.1	770	1.3	870	1.5	950	1.7	1010	1.9	1060	2.1	1110		
3000							1.4	800	1.6	890	1.8	960	2.0	1020	2.2	1080	2.4	1130		
3500							1.7	840	1.9	910	2.1	980	2.4	1040	2.6	1090	2.8	1140		
3750						1.7	780	1.9	860	2.1	920	2.3	990	2.6	1040	2.8	1100	3.1	1150	5 HP HIGH SPEED
4000						1.9	810	2.1	880	2.3	940	2.6	1000	2.8	1050	3.0	1110	3.3	1160	
4250				2.0	780	2.2	840	2.3	900	2.6	960	2.8	1010	3.0	1060	3.3	1120	3.6	1170	
4500	3 HP LOW SPEED	2.1	770	2.2	820	2.4	870	2.6	920	2.8	970	3.1	1030	3.3	1080	3.6	1130	3.9	1180	
4750		2.4	810	2.5	850	2.7	900	2.9	950	3.1	990	3.3	1040	3.6	1090	3.9	1140	4.2	1190	
5000		2.7	850	2.8	890	3.0	930	3.2	970	3.4	1010	3.7	1060	3.9	1110	4.2	1150	4.5	1210	
5250		3.0	880	3.2	920	3.4	960	3.5	990	3.8	1030	4.0	1080	4.3	1120	4.6	1170	4.9	1220	
5500	5 HP LOW SPEED	3.4	910	3.5	950	3.7	980	3.9	1020	4.1	1060	4.4	1100	4.7	1140	5.0	1190	5.4	1240	
5750		3.8	950	3.9	980	4.1	1010	4.3	1040	4.5	1080	4.8	1120	5.1	1160	5.4	1200	5.8	1260	
6000		4.2	980	4.3	1000	4.5	1030	4.7	1070	5.0	1100	5.2	1140	5.5	1180	5.9	1220	6.3	1270	
6250		4.6	1000	4.8	1030	5.0	1060	5.2	1090	5.4	1120	5.7	1160	6.0	1190	6.3	1240	6.8	1290	
6500		5.1	1030	5.2	1060	5.4	1080	5.6	1110	5.9	1140	6.2	1170	6.5	1210	6.8	1250	7.3	1300	
6600		5.3	1040	5.4	1070	5.6	1090	5.8	1120	6.1	1150	6.4	1180	6.7	1220	7.0	1260	7.5	1310	
7.5 HP LOW SPEED										7.5 HP MED SPEED										

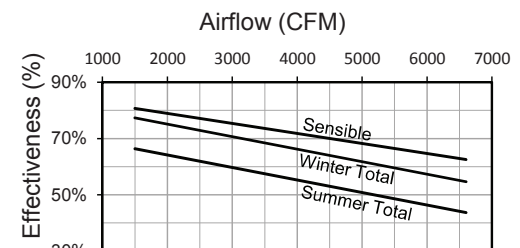
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

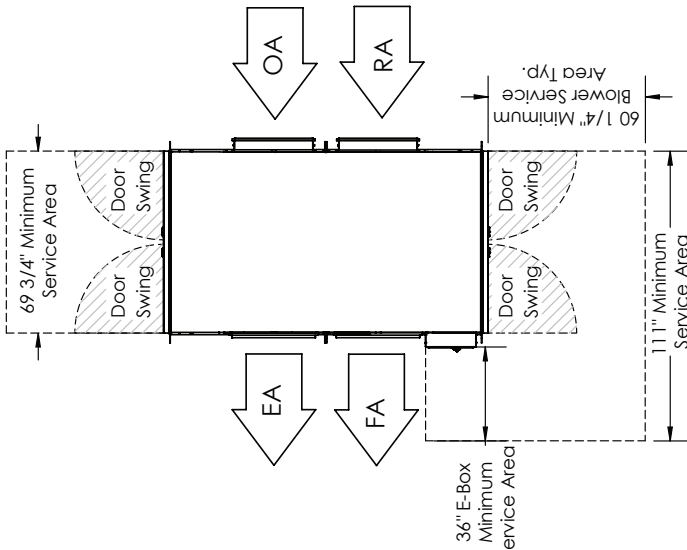
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

Specifications may be subject to change without notice.

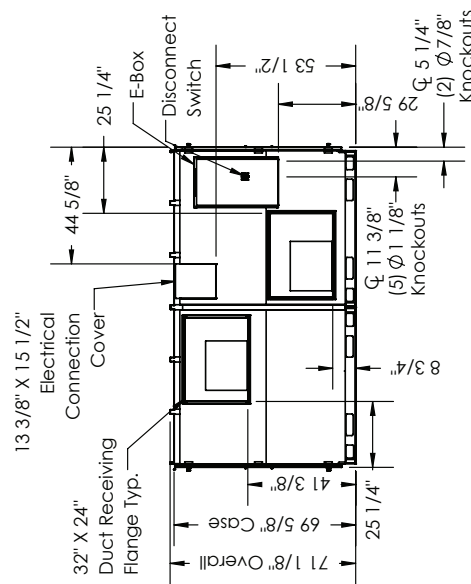
CORE PERFORMANCE



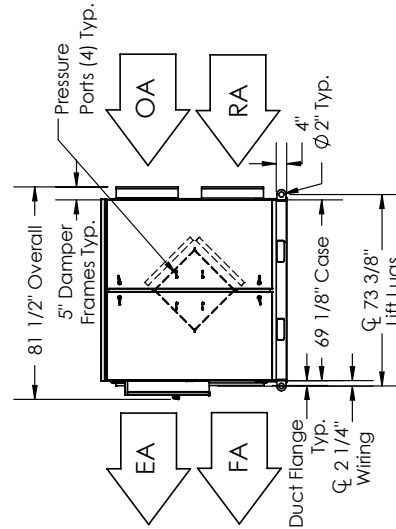
At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.



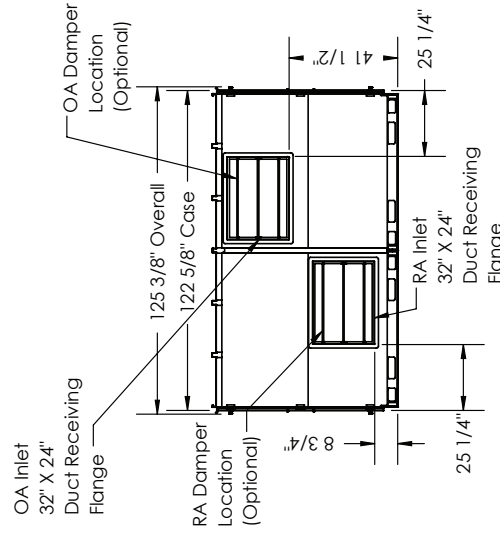
TOP VIEW



LEFT VIEW



FRONT VIEW



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 must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,600 CFM**AHRI 1060 Certified Core:** Six L125-G5**Standard Features:**

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters: Total qty. 12, MERV 8: 20" x 25" x 2"**Unit Dimensions & Weight:**

81 1/2" L x 125 1/2" W x 71 1/4" H
Modular (per module) 715-1,622 lbs., varies by option(s)
Assembled (1-piece) 1,984-2,640 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 80" L x 90" W x 78" H
Module 1 - 1,763 lbs., Module 2 - 1,159 lbs.
Assembled (1-piece) 160" L x 90" W x 78" H - 2,922 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
with choice of adjustable sheaves for low,
medium or high blower speed (see table below)

Options:

Spring vibration isolators
Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Class 1 low leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Airflow CFM	External Static Pressure (in.w.g.)																							
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00							
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM								
	3 HP LOW SPEED								3 HP MED SPEED				3 HP HIGH SPEED											
1500									0.9	820	1.1	900	1.3	960	1.4	1020	1.6	1080						
2000									1.1	850	1.3	930	1.5	990	1.7	1050	1.9	1100						
2500									1.3	870	1.5	950	1.7	1010	1.9	1060	2.1	1110						
3000									1.4	800	1.6	890	1.8	960	2.0	1020	2.2	1080		2.4	1130			
3500									1.7	840	1.9	910	2.1	980	2.4	1040	2.6	1090	2.8	1140				
3750									1.7	780	1.9	860	2.1	920	2.3	990	2.6	1040	2.8	1100		3.1	1150	
4000									1.9	810	2.1	880	2.3	940	2.6	1000	2.8	1050	3.0	1110		3.3	1160	
4250									2.0	780	2.2	840	2.3	900	2.6	960	2.8	1010	3.0	1060		3.3	1120	3.6
4500	3 HP LOW SPEED	2.1	770	2.2	820	2.4	870	2.6	920	2.8	970	3.1	1030	3.3	1080	3.6	1130	3.9	1180	5 HP MED SPEED				
4750		2.4	810	2.5	850	2.7	900	2.9	950	3.1	990	3.3	1040	3.6	1090	3.9	1140	4.2	1190					
5000		2.7	850	2.8	890	3.0	930	3.2	970	3.4	1010	3.7	1060	3.9	1110	4.2	1150	4.5	1210					
5250		3.0	880	3.2	920	3.4	960	3.5	990	3.8	1030	4.0	1080	4.3	1120	4.6	1170	4.9	1220					
5500	5 HP LOW SPEED	3.4	910	3.5	950	3.7	980	3.9	1020	4.1	1060	4.4	1100	4.7	1140	5.0	1190	5.4	1240					
5750		3.8	950	3.9	980	4.1	1010	4.3	1040	4.5	1080	4.8	1120	5.1	1160	5.4	1200	5.8	1260					
6000		4.2	980	4.3	1000	4.5	1030	4.7	1070	5.0	1100	5.2	1140	5.5	1180	5.9	1220	6.3	1270					
6250		4.6	1000	4.8	1030	5.0	1060	5.2	1090	5.4	1120	5.7	1160	6.0	1190	6.3	1240	6.8	1290					
6500		5.1	1030	5.2	1060	5.4	1080	5.6	1110	5.9	1140	6.2	1170	6.5	1210	6.8	1250	7.3	1300					
6600		5.3	1040	5.4	1070	5.6	1090	5.8	1120	6.1	1150	6.4	1180	6.7	1220	7.0	1260	7.5	1310					
7.5 HP LOW SPEED																		7.5 HP MED SPEED						

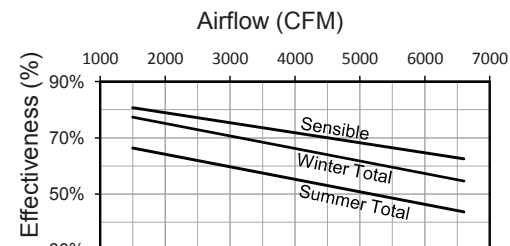
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

Specifications may be subject to change without notice.

CORE PERFORMANCE

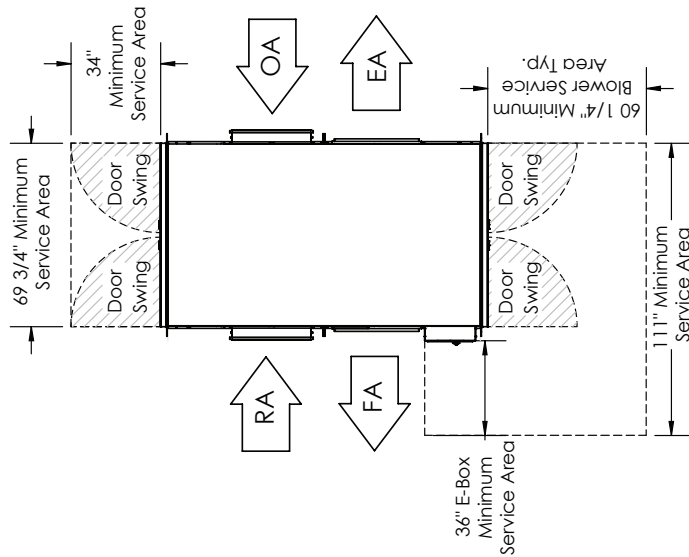


At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

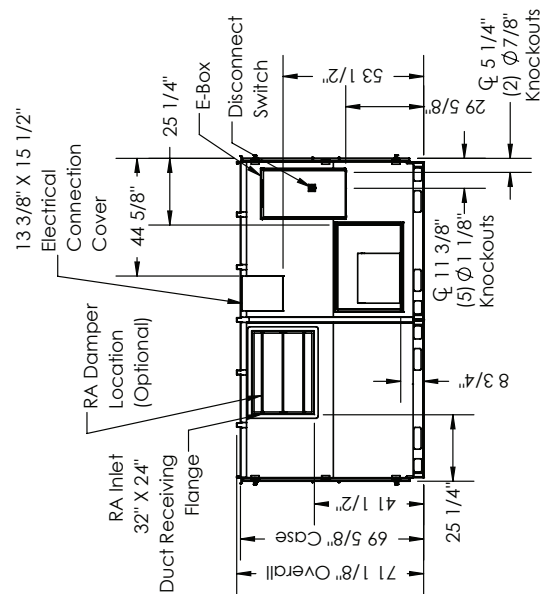
ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air Intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

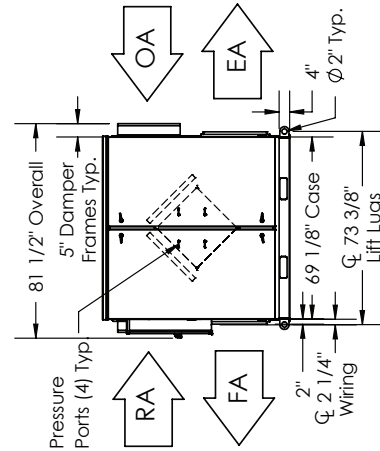
NOTE
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



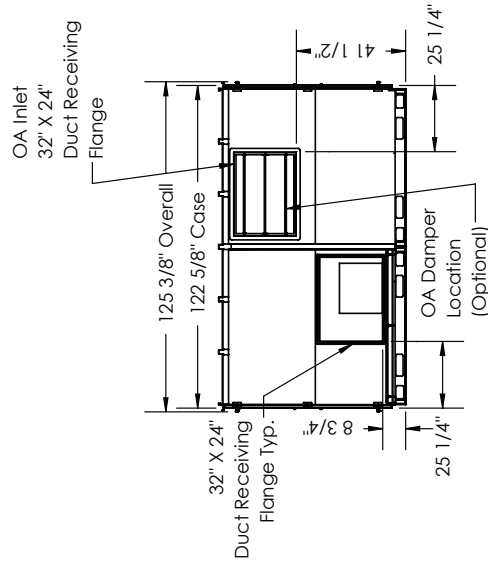
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

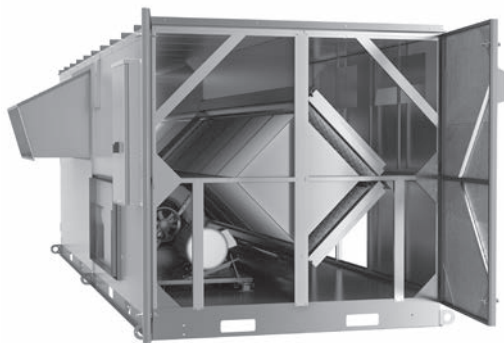
AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



LE 6XRT

ROOFTOP UNIT



LE10XRT shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,600 CFM

AHRI 1060 Certified Core: Six L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters:

Total qty. 12, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

111 1/4" L x 125 1/2" W x 71 1/4" H
 Modular (per module) 1,069-1,461 lbs., varies by option(s)
 Assembled (1-piece) 2,086-2,753 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 80" L x 90" W x 78" H
 Module 1 - 1,602 lbs., Module 2 - 1,491 lbs.
 Assembled (1-piece) 160" L x 90" W x 78" H - 3,035 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with choice of adjustable sheaves for low,
 medium or high blower speed (see table below)

Options:

Spring vibration isolators
 Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
 Roof curb - standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Airflow CFM		External Static Pressure (in.w.g.)																		
		0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		
		BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	
		3 HP LOW SPEED								3 HP MED SPEED				3 HP HIGH SPEED						
1500									0.9	840	1.1	920	1.5	990	1.9	1060	2.4	1120		
2000								0.9	770	1.1	860	1.4	940	1.7	1010	2.2	1080	2.6	1140	
2500								1.1	800	1.3	880	1.7	950	2.0	1030	2.4	1090	2.9	1150	
3000								1.4	830	1.7	900	2.0	970	2.3	1040	2.7	1110	3.1	1170	5 HP MED
3500						1.6	800	1.8	870	2.1	930	2.4	1000	2.7	1060	3.1	1120	3.5	1190	5 HP HIGH SPEED
3750				1.6	760	1.8	820	2.0	890	2.3	950	2.6	1010	2.9	1070	3.3	1130	3.7	1190	
4000				1.8	790	2.0	850	2.3	910	2.5	970	2.8	1030	3.2	1090	3.5	1150	3.9	1200	
4250	3 HP LOW SPEED	1.9	770	2.1	820	2.3	880	2.5	930	2.8	990	3.1	1040	3.4	1100	3.7	1160	4.1	1210	
4500		2.2	800	2.4	850	2.6	900	2.8	960	3.1	1010	3.4	1060	3.7	1110	4.0	1170	4.3	1230	
4750		2.5	840	2.7	880	2.9	930	3.1	980	3.4	1030	3.7	1080	4.0	1130	4.3	1180	4.6	1240	
5000		2.8	870	3.0	910	3.2	960	3.5	1000	3.7	1050	4.0	1100	4.3	1150	4.6	1200	4.9	1250	
5250	5 HP LOW SPEED	3.2	910	3.4	940	3.6	990	3.8	1030	4.1	1070	4.3	1120	4.6	1170	4.9	1220	5.3	1270	
5500		3.6	940	3.8	970	4.0	1010	4.2	1050	4.5	1090	4.7	1140	5.0	1180	5.3	1230	5.6	1290	
5750		4.0	970	4.2	1000	4.4	1040	4.6	1080	4.9	1120	5.1	1160	5.4	1200	5.7	1250	6.0	1300	
6000		4.4	1000	4.6	1030	4.8	1070	5.0	1100	5.3	1140	5.5	1180	5.8	1230	6.1	1270	6.4	1330	
6250		4.9	1030	5.1	1060	5.3	1090	5.5	1130	5.7	1160	6.0	1200	6.2	1250	6.5	1300	6.9	1350	
6500		5.3	1060	5.5	1090	5.7	1120	6.0	1150	6.2	1190	6.4	1230	6.7	1270	7.0	1320	7.4	1380	
6600		5.5	1070	5.7	1100	5.9	1130	6.1	1160	6.4	1200	6.6	1240	6.9	1280	7.2	1330	7.5	1390	
7.5 HP LOW SPEED										7.5 HP MED SPEED										

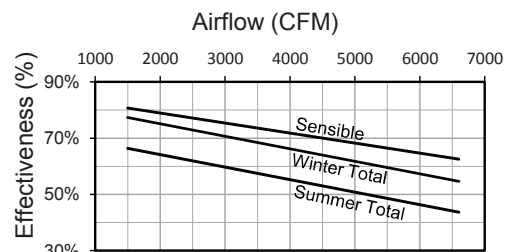
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

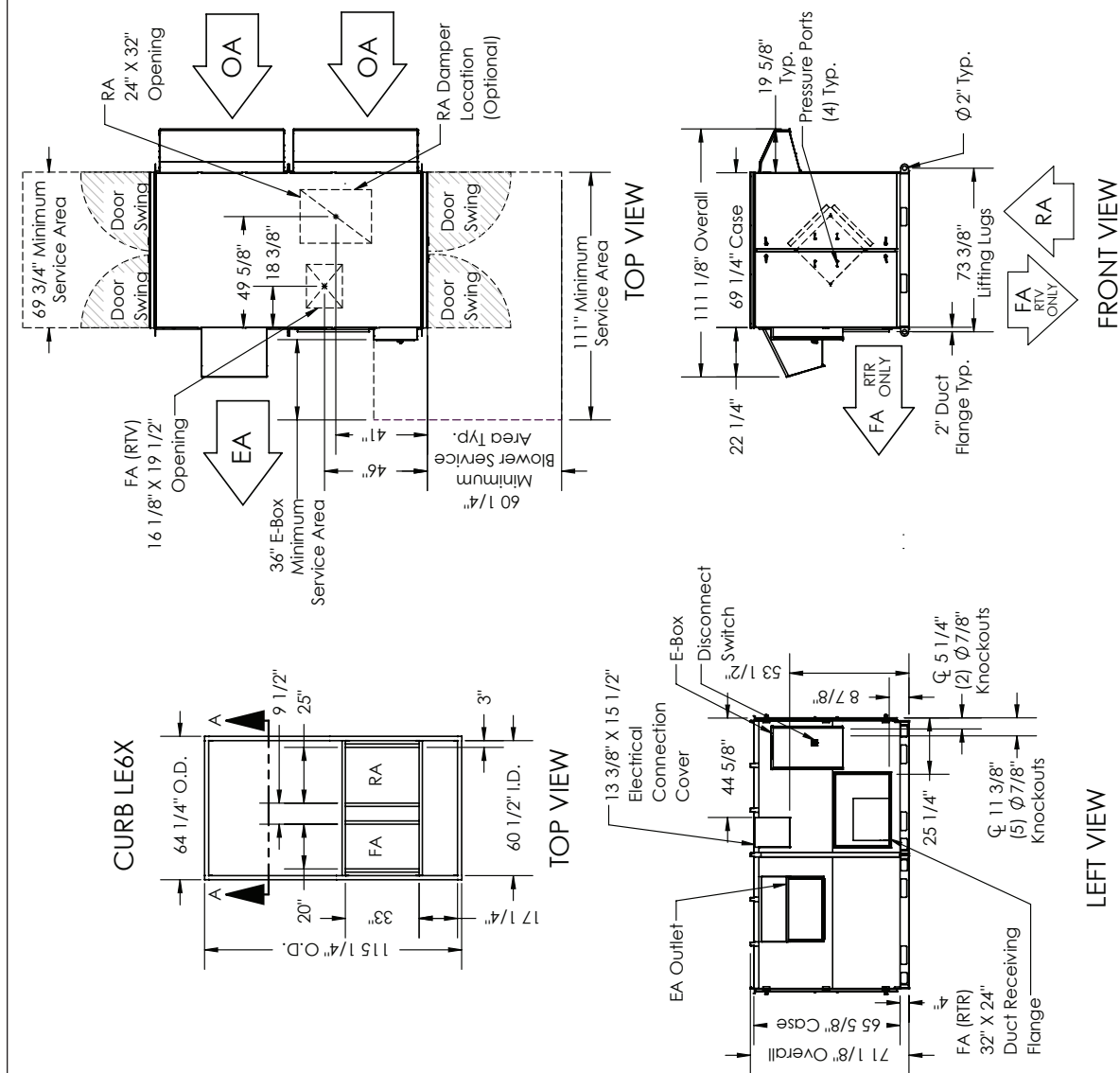
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.

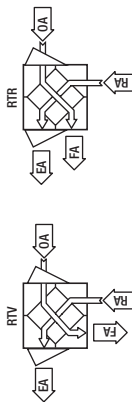


ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RTV: Rooftop Vertical RA & FA
RTR: Rooftop Vertical RA Only

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

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

AIRFLOW CONFIGURATION
Available as shown:



UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.

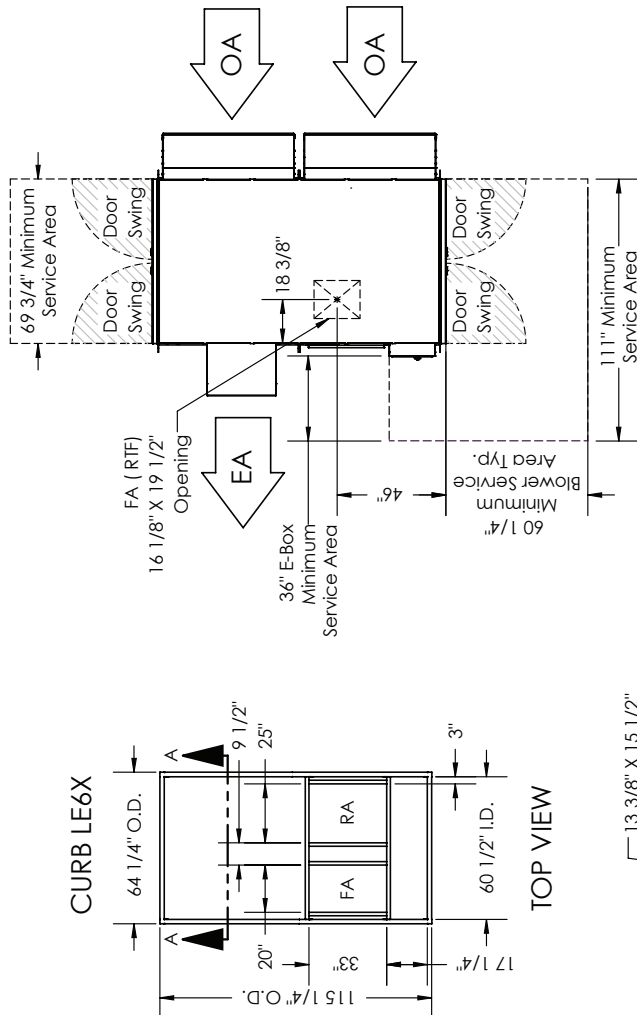
LE6XRT (RTH/RTF) Energy Recovery Ventilator Standard

ABBREVIATIONS
 EA: Exhaust Air to outside
 OA: Outside Air intake
 RA: Room Air to be exhausted
 FA: Fresh Air to inside
 RTF: Rooftop Vertical FA Only
 RTH: Rooftop Horizontal RA & FA

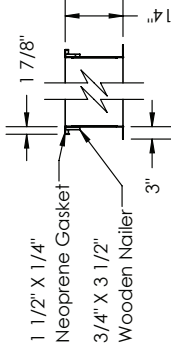
INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

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

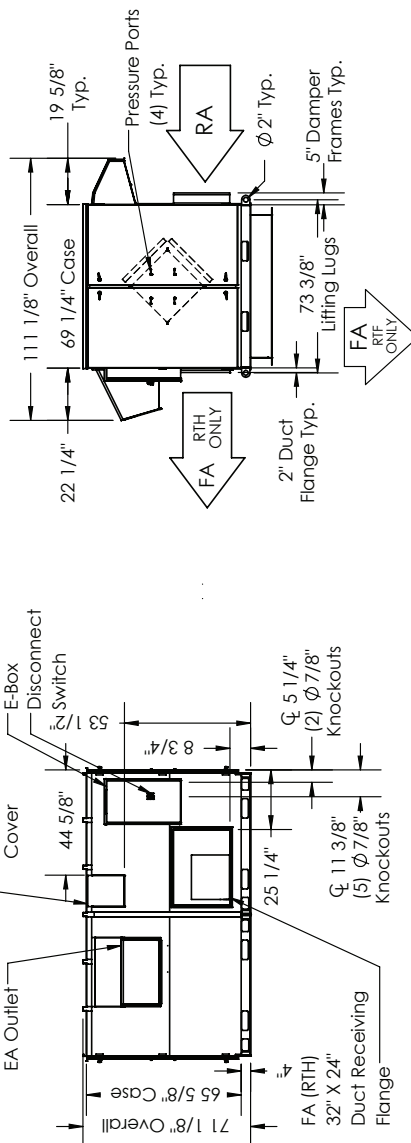
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



CURB CROSS-SECTION A-A (TYP.)

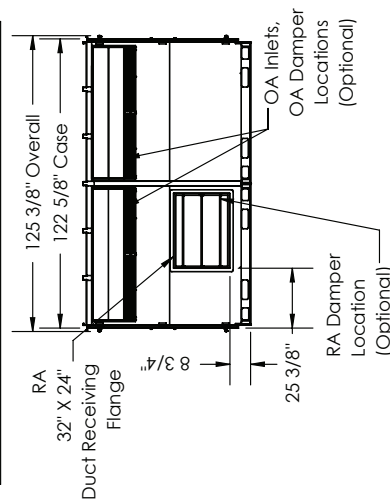


SECTION A-A

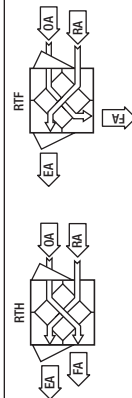


LEFT VIEW

FRONT VIEW



RIGHT VIEW



AIRFLOW CONFIGURATION
 Available as shown:



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.

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Energy Recovery Ventilator

Standard



INDOOR UNIT



LE8XINV shown

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-8,800 CFM

AHRI 1060 Certified Core: Eight L125-G5

Standard Features:

Standard Features:
TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters: Total qty. 16. MERV 8: 20" x 25" x 2"

Unit Dimensions:

80 1/2" L x 165" W x 71 1/4" H
Modular (per module) 1,214-1,672 lbs., varies by option(s)
Assembled (1-piece) 2,479-3,279 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Max. Shipping Dimensions & Weight (on pallet)
 Modular (2-modules) 100" L x 90" W x 78" H
 Module 1 - 1,852 lbs., Module 2 - 1,789 lbs.
 Assembled (1-piece) 200" L x 90" W x 78" H -
 3,638 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

Options:

- Spring vibration isolators
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Airflow CFM	External Static Pressure (in.w.g.)																			
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00			
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM		
							3 HP LOW SPEED				3 HP MED SPEED		3 HP HIGH SPEED							
2000							1.0	680	1.3	790	1.5	870	1.8	940	2.0	1000	2.2	1060		
3000					1.1	640	1.4	740	1.7	820	2.0	890	2.3	960	2.6	1020	2.9	1070		
4000					1.6	710	1.9	790	2.2	860	2.6	920	2.9	990	3.2	1040	3.6	1100	5 HP HIGH SPEED	
4500				1.5	660	1.8	740	2.2	810	2.5	880	2.9	940	3.2	1000	3.6	1060	4.0		1110
5000				1.7	690	2.1	770	2.5	840	2.8	900	3.2	960	3.6	1020	4.0	1070	4.5		1130
5500	3 HP LOW SPEED	1.7	650	2.0	730	2.4	800	2.8	860	3.2	930	3.6	980	4.0	1040	4.5	1090	4.9	1140	
6000		1.9	690	2.3	760	2.7	830	3.1	890	3.6	950	4.0	1010	4.5	1060	5.0	1110	5.5	1160	7.5 HP
6250		2.1	710	2.5	780	2.9	840	3.3	910	3.8	960	4.3	1020	4.7	1070	5.2	1120	5.7	1170	7.5 HP HIGH SPEED
6500		2.3	720	2.7	790	3.1	860	3.6	920	4.0	980	4.5	1030	5.0	1080	5.5	1130	6.0	1180	
6750		2.4	740	2.9	810	3.3	870	3.8	930	4.3	990	4.8	1040	5.3	1100	5.8	1140	6.3	1190	
7000		2.6	760	3.1	830	3.5	890	4.0	950	4.5	1000	5.0	1060	5.6	1110	6.1	1160	6.6	1200	
7250		2.8	780	3.3	850	3.7	910	4.3	960	4.8	1020	5.3	1070	5.8	1120	6.4	1170	7.0	1210	
7500		3.0	800	3.5	860	4.0	920	4.5	980	5.0	1030	5.6	1080	6.2	1130	6.7	1180	7.3	1220	
7750	5 HP LOW SPEED	3.2	820	3.7	880	4.2	940	4.8	990	5.3	1050	5.9	1100	6.5	1140	7.1	1190			
8000		3.5	840	4.0	900	4.5	960	5.1	1010	5.6	1060	6.2	1110	6.8	1160	7.4	1200			
8250		3.7	860	4.2	920	4.8	970	5.4	1030	5.9	1080	6.5	1120	7.1	1170					
8500		4.0	880	4.5	930	5.1	990	5.7	1040	6.3	1090	6.9	1140	7.5	1180					
8800		4.3	900	4.9	960	5.5	1010	6.1	1060	6.7	1110	7.3	1150							
				5 HP MED SPEED		7.5 HP LOW SPEED		7.5 HP MED SPEED												

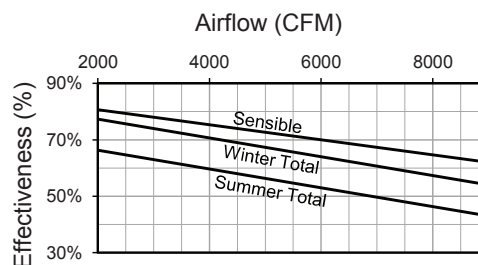
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

Specifications may be subject to change without notice.

CORE PERFORMANCE

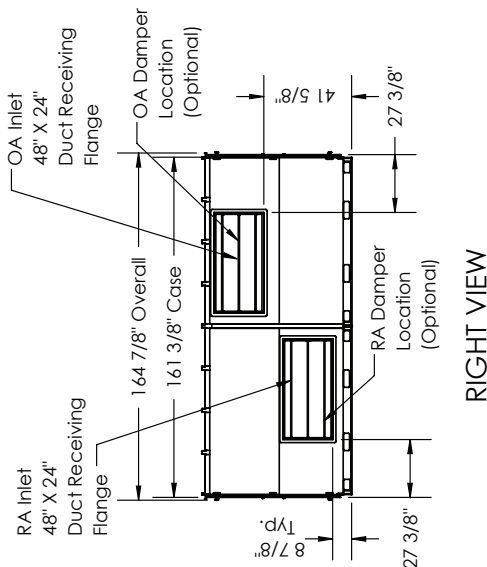
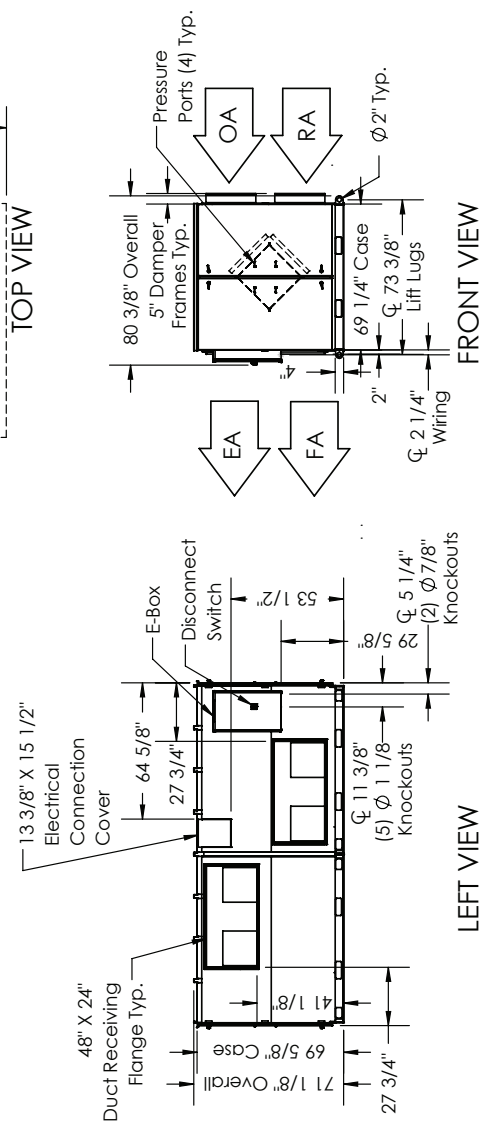
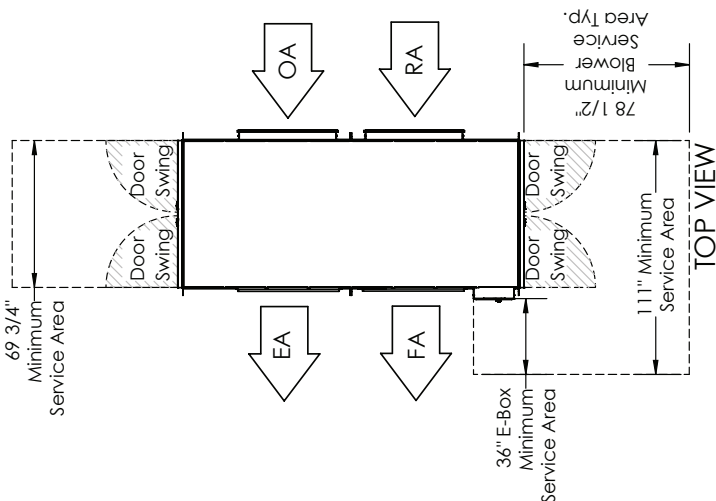


At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

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

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

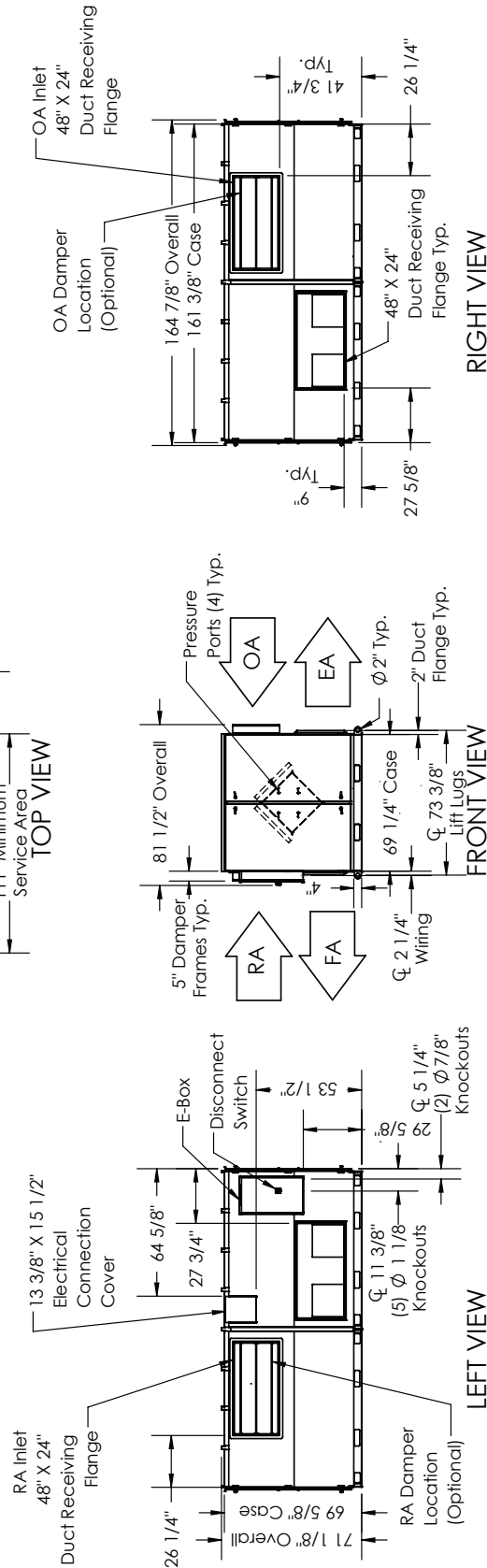
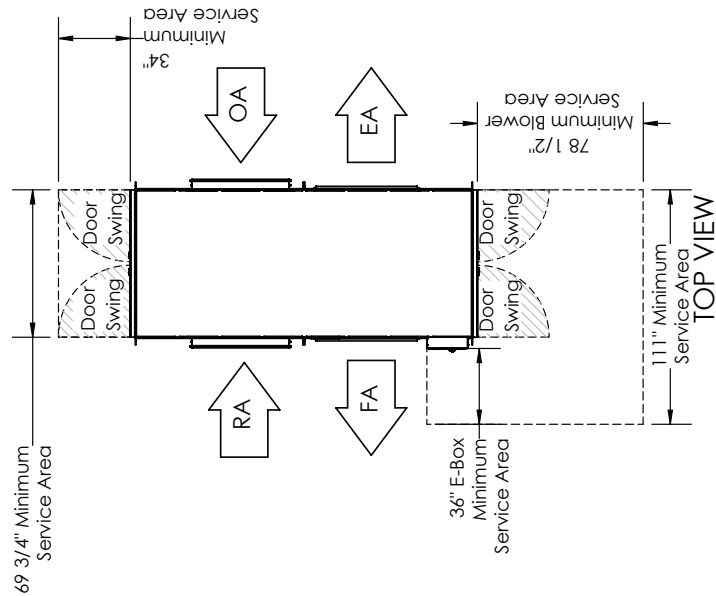
NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.





ABBREVIATIONS

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

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2\"/>

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

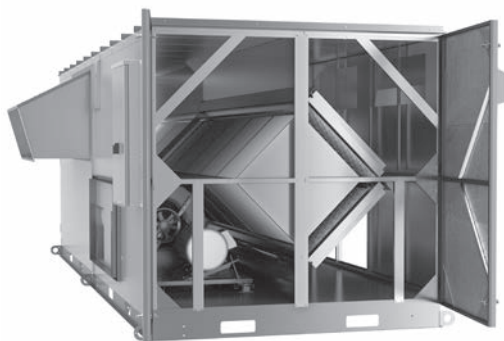
UNIT MOUNTING & APPLICATION

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



LE 8XRT

ROOFTOP UNIT



LE10XRT shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-8,800 CFM

AHRI 1060 Certified Core: Eight L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

Filters: Total qty. 16, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

111 1/4" L x 165 1/2" W x 71 1/4" H
 Modular (per module) 1,311-1,806 lbs., varies by option(s)
 Assembled (1-piece) 2,631-3,453 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 100" L x 90" W x 78" H
 Module 1 - 1,986 lbs., Module 2 - 1,917 lbs.
 Assembled (1-piece) 200" L x 90" W x 78" H - 3,812 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with choice of adjustable sheaves for low,
 medium or high blower speed (see table below)

Options:

Spring vibration isolators
 Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both airstreams
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
 Roof Curb - Standard 14"
 Curb wind clip
 Engineered combo curb for Carrier RTU
 Engineered combo curb for Trane RTU
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

Airflow CFM	External Static Pressure (in.w.g.)																					
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00					
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM				
							3 HP LOW SPEED				3 HP MED SPEED		3 HP HIGH SPEED									
2000							1.3	640	1.3	730	1.4	810	1.6	890	1.9	960	2.4	1030	2.9	1100	5 HP HIGH SPEED	
3000							1.5	700	1.6	780	1.9	860	2.2	930	2.7	1000	3.1	1060	3.7	1130		
4000							1.6	680	1.9	760	2.2	840	2.6	910	3.0	980	3.5	1040	4.6	1160		
4500							1.8	710	2.1	800	2.5	870	3.0	940	3.5	1010	4.0	1060	4.5	1120	5.1	1170
5000	3 HP LOW SPEED	1.7	660	2.1	750	2.5	830	3.0	910	3.5	970	4.0	1030	4.5	1090	5.1	1140	5.6	1190	7.5 HP HIGH SPEED		
5500		2.0	710	2.4	790	2.9	870	3.4	940	4.0	1000	4.5	1060	5.1	1110	5.6	1160	6.2	1210			
6000		2.4	750	2.9	840	3.4	910	4.0	970	4.5	1030	5.1	1090	5.7	1140	6.2	1190	6.8	1230			
6250		2.6	780	3.1	860	3.7	930	4.2	990	4.8	1050	5.4	1100	6.0	1150	6.5	1200	7.1	1240			
6500	5 HP LOW SPEED	2.8	800	3.4	880	4.0	950	4.5	1010	5.1	1060	5.7	1110	6.3	1160	6.8	1210	7.4	1250			
6750		3.1	820	3.7	900	4.3	960	4.8	1020	5.4	1080	6.0	1130	6.6	1180	7.2	1220					
7000		3.3	850	4.0	920	4.6	980	5.2	1040	5.8	1090	6.3	1140	6.9	1190	7.5	1230					
7250		3.6	870	4.3	940	4.9	1000	5.5	1060	6.1	1110	6.7	1160	7.2	1200							
7500	5 HP MED SPEED	3.9	900	4.6	960	5.2	1020	5.8	1080	6.4	1120	7.0	1170									
7750		4.3	920	4.9	980	5.6	1040	6.2	1090	6.8	1140	7.4	1180									
8000		4.6	940	5.3	1000	5.9	1060	6.5	1110	7.1	1160											
8250		5.0	970	5.7	1020	6.3	1080	6.9	1130	7.5	1170											
8500		5.4	990	6.0	1050	6.7	1100	7.3	1140													
8800		5.9	1020	6.5	1070	7.1	1120															
7.5 HP LOW SPEED			7.5 HP MED SPEED																			

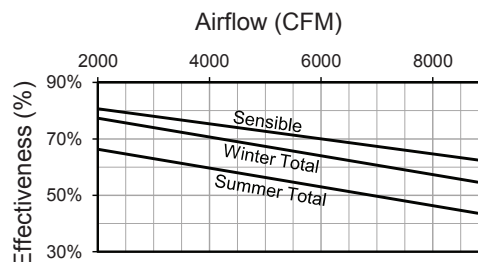
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20

Specifications may be subject to change without notice.

CORE PERFORMANCE



At AHRI 1060 standard conditions.

See all AHRI certified ratings at www.ahrinet.org.



ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
RRTV: Rooftop Vertical RA & FA
RTR: Rooftop Vertical RA Only

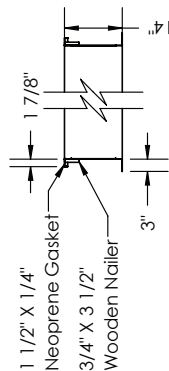
INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

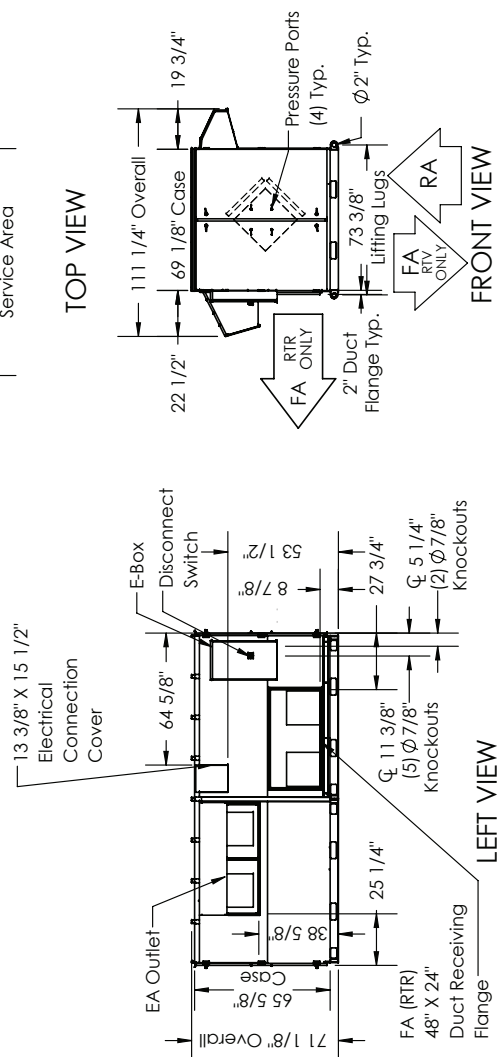
NOTE:

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

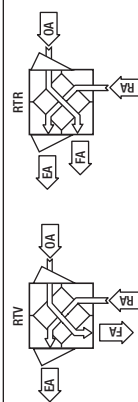
CURB CROSS-SECTION A-A (TYP.)



SECTION A-A



RIGHT VIEW



AIRFLOW CONFIGURATION

Available as shown:



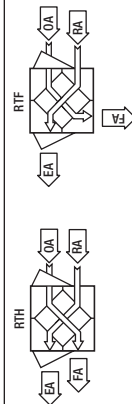
UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.





Available as shown:

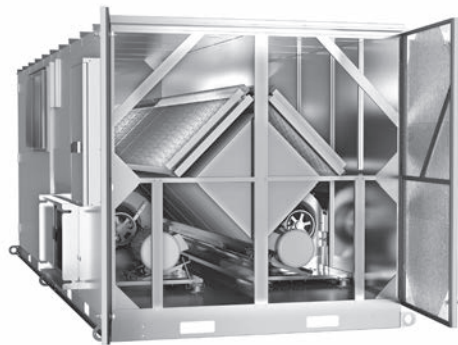


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LE10XINH

INDOOR UNIT



LE10XINH shown

Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,500-11,000 CFM

AHRI 1060 Certified Core: Ten L125-G5

Standard Features:

TEFC Premium efficiency motors
 Motor starters
 Non-fused disconnect
 24 VAC transformer/relay package
 Rubber vibration isolators
 Cross-core differential pressure ports

Filters: Total qty. 20, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

80 1/2" L x 205 1/2" W x 71 1/4" H
 Modular (per module) 1,423-1,912 lbs., varies by option(s)
 Assembled (1-piece) 2,858-3,799 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 120" L x 90" W x 78" H
 Module 1 - 2,132 lbs., Module 2 - 2,107 lbs.
 Assembled (1-piece) 240" L x 90" W x 78" H - 4,239 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages
 with choice of adjustable sheaves for low,
 medium or high blower speed. (see table below)

Options:

Spring vibration isolators
 Onboard variable frequency drives (VFDs) -
 one or both airstreams
 Shaft grounding ring on motors with VFDs
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 OA, RA or both
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
 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)
 Smoke Detector - duct mount (SD-D)
 Electric duct heater - EK series (1-175 kW)
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

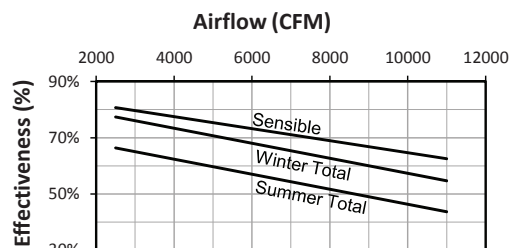
Airflow CFM	External Static Pressure (in.w.g.)																			
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00			
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM		
							3 HP LOW SPEED				3 HP MED SPEED		3 HP HIGH SPEED							
2500							1.1	710	1.3	790	1.6	870	1.8	930	2.1	1000	2.4	1050		
3000							1.3	730	1.5	810	1.8	880	2.0	950	2.3	1010	2.6	1070		
3500							1.2	660	1.4	750	1.7	830	2.0	900	2.3	960	2.6	1020	2.9	1080
4000							1.4	680	1.6	770	1.9	840	2.2	910	2.5	980	2.9	1040	3.2	1100
4500							1.6	710	1.9	790	2.2	860	2.5	930	2.8	990	3.2	1050	3.5	1110
5000							1.9	740	2.1	810	2.5	880	2.8	940	3.1	1000	3.5	1060	3.9	1120
5500	3 HP LOW SPEED	1.6	640	1.9	710	2.2	770	2.5	840	2.8	900	3.1	960	3.5	1020	3.8	1080	4.2	1130	5 HP HIGH SPEED
6000		2.0	690	2.2	750	2.5	810	2.8	870	3.1	920	3.5	980	3.9	1040	4.2	1090	4.6	1150	
6500		2.4	740	2.6	790	2.9	850	3.2	900	3.6	950	3.9	1000	4.3	1060	4.7	1110	5.1	1160	
7000		2.8	790	3.1	830	3.4	880	3.7	930	4.0	980	4.4	1030	4.8	1080	5.2	1130	5.6	1170	
7500	5 HP LOW SPEED	3.3	830	3.6	880	3.9	920	4.2	970	4.6	1010	4.9	1050	5.3	1100	5.7	1140	6.1	1190	7.5 HP HIGH SPEED
8000		3.9	880	4.2	920	4.5	960	4.8	1000	5.1	1040	5.5	1080	5.9	1120	6.3	1160	6.7	1200	
8500	5 HP MED SPEED	4.5	930	4.8	960	5.1	1000	5.4	1030	5.8	1070	6.1	1100	6.5	1140	6.9	1180	7.3	1210	
9000	7.5 HP LOW SPEED	5.2	970	5.5	1000	5.8	1030	6.1	1060	6.4	1100	6.8	1130	7.1	1160	7.5	1190	7.9	1220	
9500		5.9	1010	6.2	1040	6.5	1060	6.8	1090	7.1	1120	7.5	1150	7.8	1180	8.2	1210	8.5	1230	
10000		6.7	1040	7.0	1070	7.3	1090	7.6	1120	7.9	1140	8.2	1170	8.5	1190	8.9	1220	9.2	1240	
10500	7.5 HP MED SPEED	7.5	1080	7.8	1100	8.1	1120	8.4	1140	8.7	1160	9.0	1190	9.3	1210	9.6	1230	10.0	1250	
11000		8.4	1100	8.6	1120	8.9	1140	9.2	1160	9.5	1180	9.8	1200							
	10 HP MED SPEED								10 HP HIGH SPEED											

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-24.4	60.8	80	27.0-24.4	66.8	80
	460	60	Three	12.2	27.5	35	12.2	30.2	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

CORE PERFORMANCE



At AHRI 1060 standard conditions.
 See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

ABBREVIATIONS

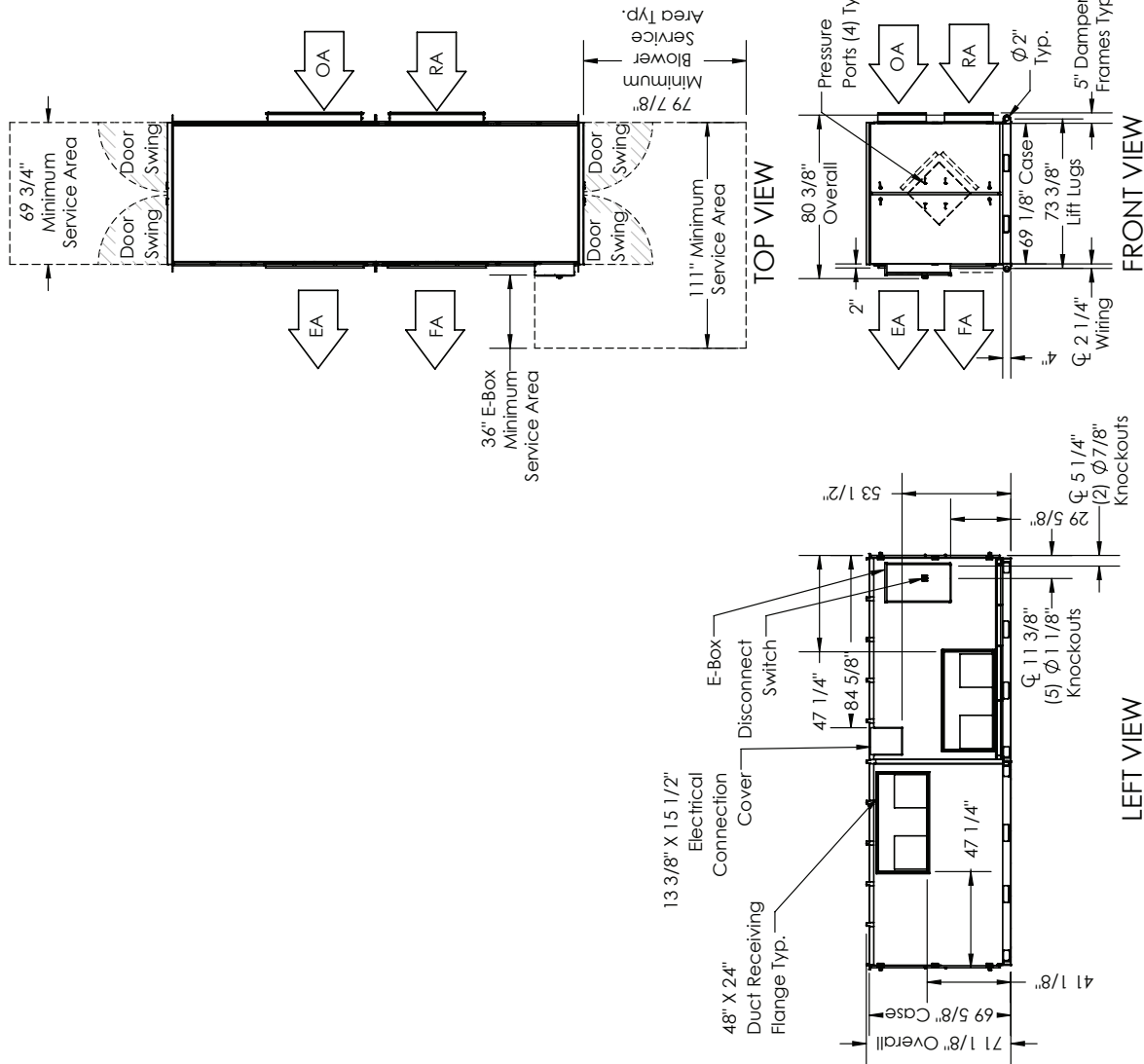
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



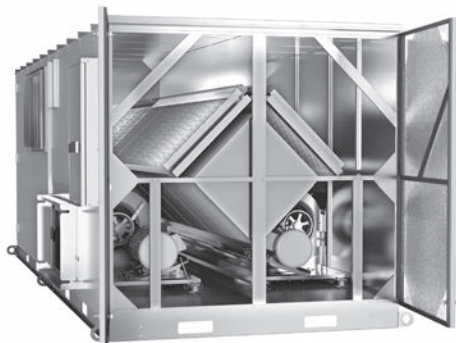
AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



LE 10XINV

INDOOR UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,500-11,000 CFM

AHRI 1060 Certified Core: Ten L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Rubber vibration isolators
Cross-core differential pressure ports

Filters: Total qty. 20, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

81 1/2" L x 205 1/2" W x 71 1/4" H
Modular (per module) 1,127-2,222 lbs., varies by option(s)
Assembled (1-piece) 2,858-3,788 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 120" L x 90" W x 78" H
Module 1 - 2,442 lbs., Module 2 - 1,792 lbs.
Assembled (1-piece) 240" L x 90" W x 78" H - 4,228 lbs.

Motor(s): Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed. (see table below)

Options:

Spring vibration isolators
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Class 1 low leakage motorized isolation dampers - OA, RA or both
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

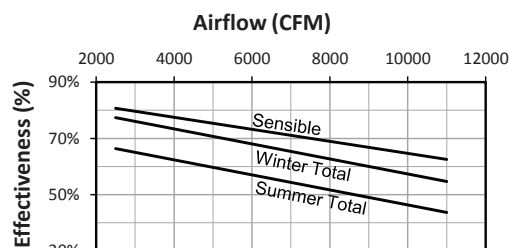
Airflow CFM	External Static Pressure (in.w.g.)																			
	0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00			
	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM		
							3 HP LOW SPEED				3 HP MED SPEED		3 HP HIGH SPEED							
2500							1.1	710	1.3	790	1.6	870	1.8	930	2.1	1000	2.4	1050		
3000							1.0	640	1.3	730	1.5	810	1.8	880	2.0	950	2.3	1010	2.6	1070
3500							1.2	660	1.4	750	1.7	830	2.0	900	2.3	960	2.6	1020	2.9	1080
4000							1.4	680	1.6	770	1.9	840	2.2	910	2.5	980	2.9	1040	3.2	1100
4500							1.6	710	1.9	790	2.2	860	2.5	930	2.8	990	3.2	1050	3.5	1110
5000							1.9	740	2.1	810	2.5	880	2.8	940	3.1	1000	3.5	1060	3.9	1120
5500	3 HP LOW SPEED	1.6	640	1.9	710	2.2	770	2.5	840	2.8	900	3.1	960	3.5	1020	3.8	1080	4.2	1130	5 HP HIGH SPEED
6000		2.0	690	2.2	750	2.5	810	2.8	870	3.1	920	3.5	980	3.9	1040	4.2	1090	4.6	1150	
6500		2.4	740	2.6	790	2.9	850	3.2	900	3.6	950	3.9	1000	4.3	1060	4.7	1110	5.1	1160	
7000		2.8	790	3.1	830	3.4	880	3.7	930	4.0	980	4.4	1030	4.8	1080	5.2	1130	5.6	1170	
7500	5 HP LOW SPEED	3.3	830	3.6	880	3.9	920	4.2	970	4.6	1010	4.9	1050	5.3	1100	5.7	1140	6.1	1190	7.5 HP HIGH SPEED
8000		3.9	880	4.2	920	4.5	960	4.8	1000	5.1	1040	5.5	1080	5.9	1120	6.3	1160	6.7	1200	
8500	5 HP MED SPEED	4.5	930	4.8	960	5.1	1000	5.4	1030	5.8	1070	6.1	1100	6.5	1140	6.9	1180	7.3	1210	
9000	7.5 HP LOW SPEED	5.2	970	5.5	1000	5.8	1030	6.1	1060	6.4	1100	6.8	1130	7.1	1160	7.5	1190	7.9	1220	10 HP HIGH SPEED
9500		5.9	1010	6.2	1040	6.5	1060	6.8	1090	7.1	1120	7.5	1150	7.8	1180	8.2	1210	8.5	1230	
10000		6.7	1040	7.0	1070	7.3	1090	7.6	1120	7.9	1140	8.2	1170	8.5	1190	8.9	1220	9.2	1240	
10500	7.5 HP MED SPEED	7.5	1080	7.8	1100	8.1	1120	8.4	1140	8.7	1160	9.0	1190	9.3	1210	9.6	1230	10.0	1250	
11000		8.4	1100	8.6	1120	8.9	1140	9.2	1160	9.5	1180	9.8	1200							
	10 HP MED SPEED									10 HP HIGH SPEED										

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

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-24.4	60.8	80	27.0-24.4	66.8	80
	460	60	Three	12.2	27.5	35	12.2	30.2	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

CORE PERFORMANCE



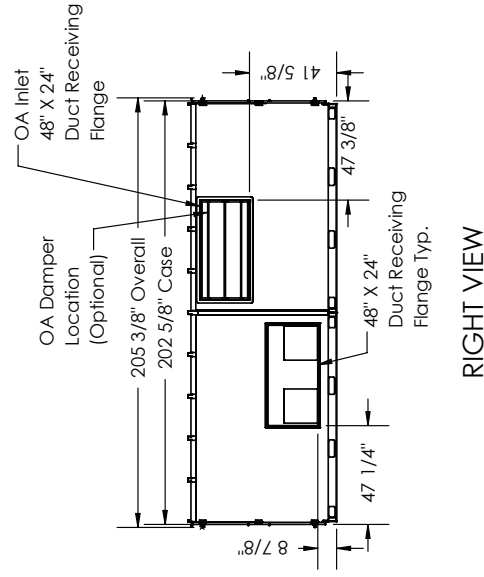
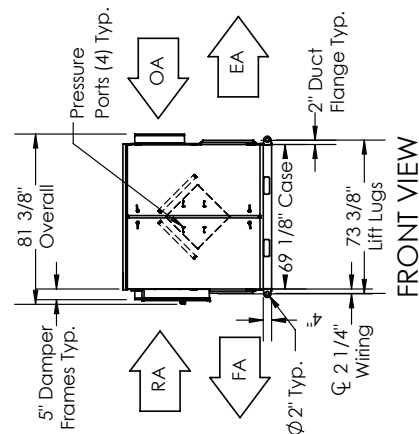
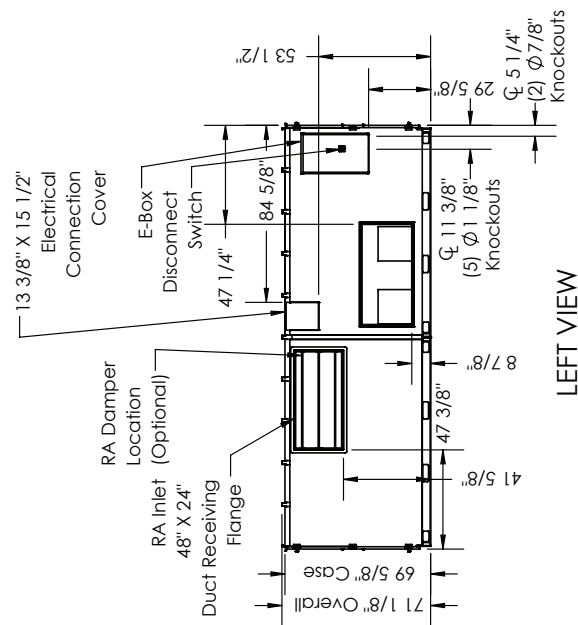
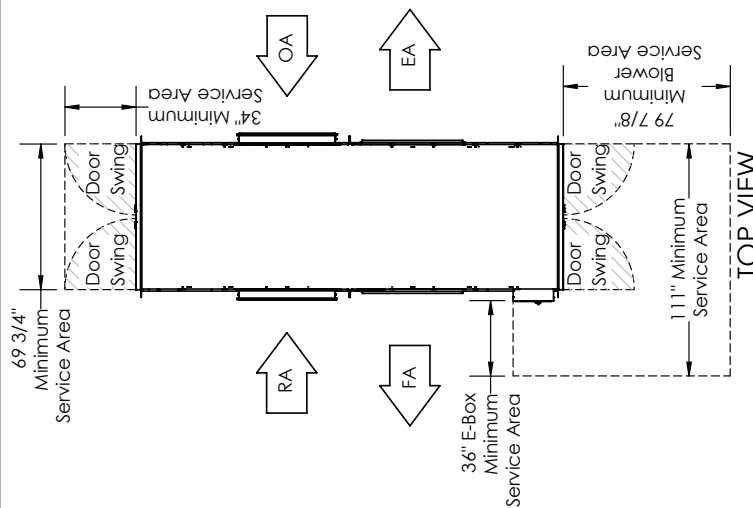
At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

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

INSTALLATION ORIENTATION
 Unit must be installed in orientation shown.

NOTE
 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 3. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.



AIRFLOW CONFIGURATION
 Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
 Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.



LE 10XRT

ROOFTOP UNIT



Download specification at:
renewaire.com/specifications

Energy Recovery Ventilator Standard



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 2,500-11,000 CFM

AHRI 1060 Certified Core: Ten L125-G5

Standard Features:

TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Rubber vibration isolators
Cross-core differential pressure ports

Filters:

Total qty. 20, MERV 8: 20" x 25" x 2"

Unit Dimensions & Weight:

111 1/4" L x 205 1/2" W x 71 1/4" H
Modular (per module) 1,493-2,057 lbs., varies by option(s)
Assembled (1-piece) 3,032-3,993 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

Modular (2-modules) 120" L x 90" W x 78" H
Module 1 - 2,277 lbs., Module 2 - 2,245 lbs.
Assembled (1-piece) 240" L x 90" W x 78" H - 4,433 lbs.

Motor(s):

Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed. (see table below)

Options:

Spring vibration isolators
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Class 1 low leakage motorized isolation dampers - OA, RA or both
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
Roof curb - standard 14"
Curb wind clip
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EK series (1-175 kW); designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

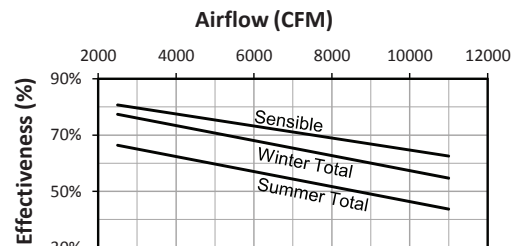
Airflow CFM		External Static Pressure (in.w.g.)																		
		0.00		0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		
		BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	
						3 HP LOW SPEED				3 HP MED SPEED				3 HP HIGH SPEED						
2500						1.0	640	1.2	740	1.5	820	1.7	880	2.0	950	2.3	1000	2.6	1060	
3000						1.1	660	1.4	760	1.7	830	2.0	900	2.3	960	2.6	1020	2.9	1070	
3500						1.3	690	1.6	770	1.9	850	2.2	920	2.5	980	2.9	1040	3.2	1090	5 HP HIGH SPEED
4000						1.5	710	1.8	790	2.1	870	2.5	930	2.8	1000	3.2	1060	3.6	1110	
4500				1.4	650	1.7	740	2.1	810	2.4	890	2.8	950	3.2	1020	3.6	1070	3.9	1130	
5000				1.7	680	2.0	760	2.4	840	2.7	910	3.1	970	3.5	1030	3.9	1090	4.4	1150	
5500	3 HP LOW SPEED	1.7	650	2.0	720	2.4	800	2.7	870	3.1	930	3.5	990	3.9	1050	4.4	1110	4.8	1170	7.5 HP HIGH SPEED
6000		2.1	690	2.4	760	2.8	830	3.1	890	3.5	960	4.0	1020	4.4	1080	4.8	1130	5.3	1190	
6500		2.5	740	2.8	800	3.2	870	3.6	930	4.0	980	4.4	1040	4.9	1100	5.3	1160	5.8	1210	
7000	3.0	790	3.3	850	3.7	900	4.1	960	4.5	1010	5.0	1070	5.4	1120	5.9	1180	6.4	1230		
7500	5 HP LOW SPEED	3.5	840	3.9	890	4.3	940	4.7	990	5.1	1040	5.5	1100	6.0	1150	6.4	1200	6.9	1250	
8000		4.1	880	4.5	930	4.9	980	5.3	1030	5.7	1070	6.1	1120	6.6	1170	7.0	1220	7.5	1270	
8500	5 HP MED SPEED	4.8	930	5.2	970	5.5	1010	5.9	1060	6.3	1100	6.8	1150	7.2	1200	7.7	1240	8.1	1290	10 HP HIGH SPEED
9000	7.5 HP LOW SPEED	5.5	970	5.9	1010	6.2	1050	6.6	1090	7.0	1130	7.4	1170	7.8	1220	8.3	1260	8.7	1300	
9500		6.2	1010	6.6	1050	6.9	1080	7.3	1120	7.7	1160	8.1	1200	8.5	1240	8.9	1280	9.3	1310	
10000		7.0	1050	7.3	1080	7.7	1110	8.0	1150	8.4	1180	8.7	1220	9.1	1250	9.5	1290	9.9	1320	
10500		7.8	1080	8.1	1110	8.4	1140	8.7	1170	9.1	1200	9.4	1230	9.7	1260					
11000		8.6	1110	8.9	1140	9.2	1160	9.4	1190	9.7	1220									
		10 HP MED SPEED						10 HP HIGH SPEED												

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

ELECTRICAL DATA

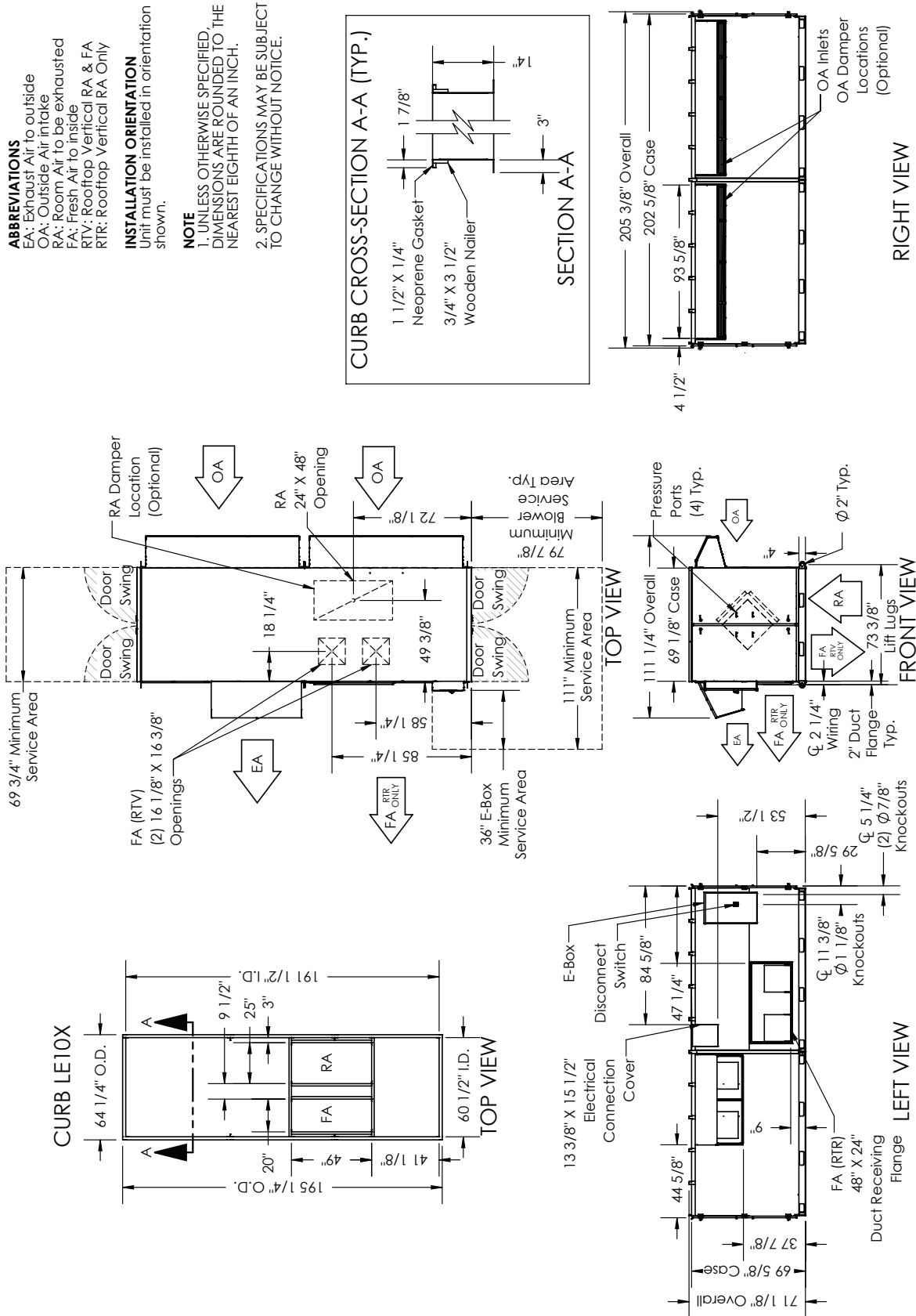
Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.7-14	33.1	40	9.38-8.48	40.2	45
3.0	208-230	60	Three	9.38-8.48	21.1	25	9.38-8.48	23.2	25
	460	60	Three	4.24	9.5	15	4.24	10.5	15
	575	60	Three	3.3	7.4	15	3.3	8.2	15
5.0	208-230	60	Three	14.5-13.4	32.6	45	14.5-13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208-230	60	Three	21.0-19.0	47.3	60	21.0-19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208-230	60	Three	27.0-24.4	60.8	80	27.0-24.4	66.8	80
	460	60	Three	12.2	27.5	35	12.2	30.2	35
	575	60	Three	9.76	22.0	30	9.76	24.2	30

CORE PERFORMANCE



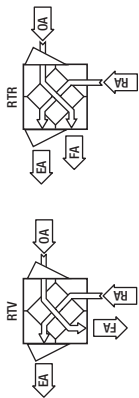
At AHRI 1060 standard conditions.
See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.



AIRFLOW CONFIGURATION

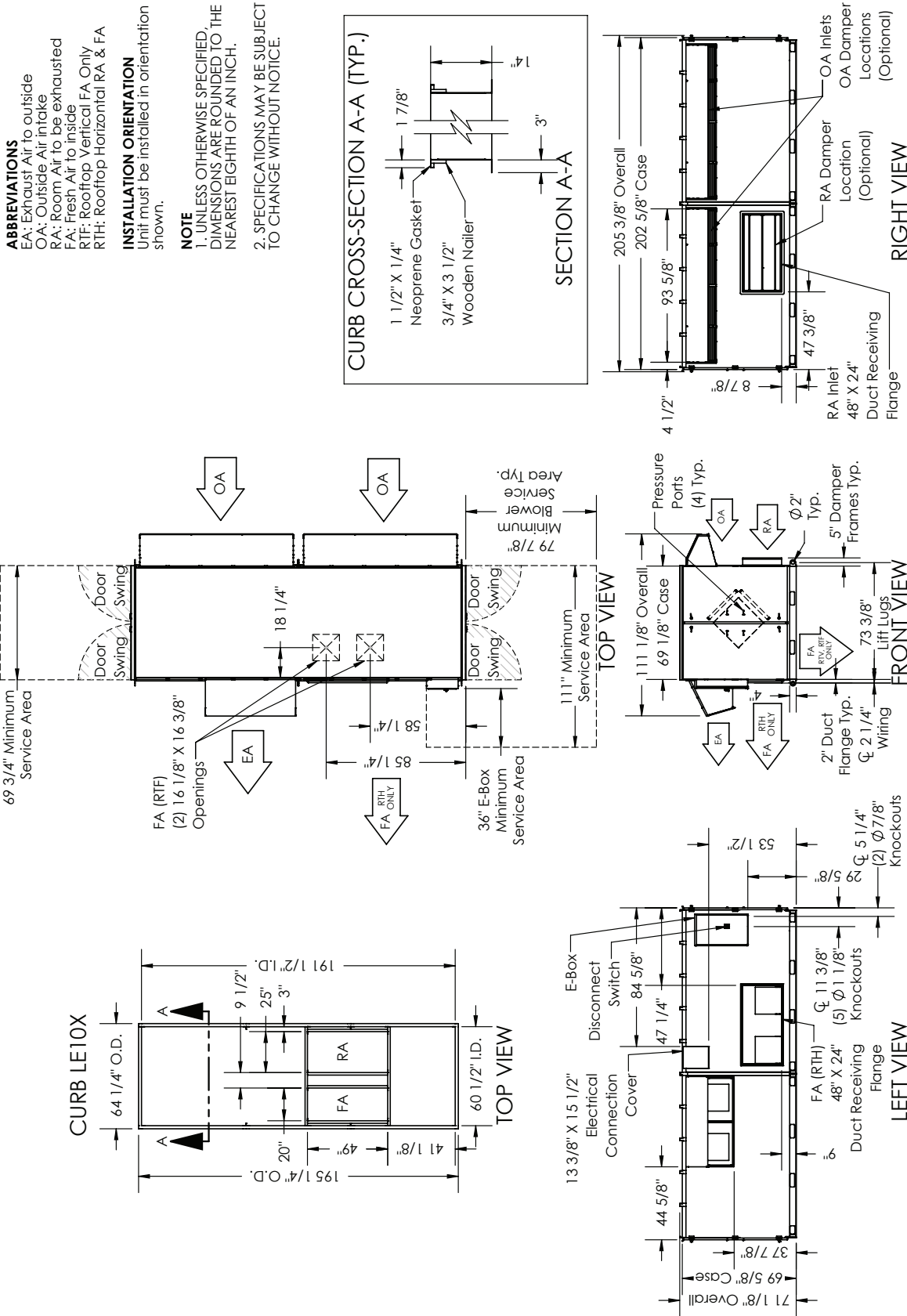
Available as shown:



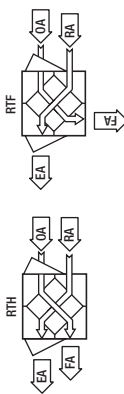
UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.



LE10XRT (RTH/RTF) Energy Recovery Ventilator Standard



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams can not be switched.



AIRFLOW CONFIGURATION
 Available as shown:



OPTIONS

See individual submittal pages for availability by model.

ELECTRICAL

- ♦ Disconnect fuses and motor starters
- ♦ Independent blower control (IBC) - available as an option for HE1X and HE1.5X



VARIABLE FREQUENCY DRIVE

- ♦ Factory supplied and mounted variable frequency drives (VFDs) - one or both airstreams
- ♦ Provides additional control options
- ♦ Separate VFD for each airstream
- ♦ Display/control in electrical box - can be remotely mounted
- ♦ Pre-programmed speeds or variable speed
- ♦ Easy airflow setup using RenewAire's standard pressure ports - cuts commissioning time
- ♦ Shaft grounding ring on motors with VFDs



VFD all voltage except 575V



VFD 575V only

MOTORIZED ISOLATION DAMPERS

- ♦ Class 1, low leakage
- ♦ Robust, reliable actuators for highest dependability
- ♦ Automatic operation with spring return in event of power loss
- ♦ Damper(s) are factory mounted and wired (except in HE1XIN - shipped loose)



FILTER ALARM

- ♦ Factory mounted airflow switches - one for each airstream
- ♦ Allows for remote indication of loaded (dirty) filter



EXTERIOR PAINT

- ♦ White and custom colors available



OPTIONS

Integrated Programmable Controls

AVAILABLE ON ALL EV450, HE, LE, RD AND DN-SERIES UNITS

RenewAire's **INTEGRATED PROGRAMMABLE CONTROLS** optimize the usability and performance of our commercial ERVs by improving functionality, enabling intelligent controls, streamlining operations and boosting efficiencies. This is accomplished via sophisticated factory-installed microprocessor controls and sensors that provide stand-alone ERVs with Direct Digital Control (DDC) and/or Building Management System (BMS) control interface.



KEY BENEFITS

Optimize usability:

- Maximize ERV functionality and intelligent control via remote Ethernet accessibility and BMS connectivity without third-party interface.
- Streamline operations by easily managing and changing ERV control parameters via an advanced user interface.
- Increase uptime reliability through constant system monitoring.
- Achieve cleaner and healthier indoor air via IAQ-based ERV control.

Improve performance:

- Support effective and efficient ERV performance with real-time data trending and logging capabilities.
- Enhance ERV control via access to real-time airflow rates, airstream temperature and airstream humidity.
- Facilitate fast and easy ERV upkeep and maintenance with real-time fan, filter and bypass status.

Increase capabilities:

- Expand ERV connectivity via access to a wide range of open standard protocols, including BACnet and Modbus.
- Broaden ERV interoperability by connecting to third-party equipment and receiving third-party signals for unit control.
- Expand ERV-application scope by meeting new code requirements and the needs of institutional customers requiring DDC controls in mechanical equipment.

Simplify operations:

- Achieve easier ERV setup, commissioning and balancing via simple-to-install controls.
- Improve operational efficiencies by easily communicating ERV status, airflows, temperatures and humidity.
- Allow for more flexible installations by enabling ERVs to be interconnected with a BMS, operated independently or run in concert with other ERVs.

ACCESSORIES AVAILABLE WITH INTEGRATED PROGRAMMABLE CONTROLS

	STANDARD CONTROLS	ENHANCED CONTROLS	PREMIUM CONTROLS
CO2 sensor (wall or duct mount)*	◆		◆
IAQ sensor (wall or duct mount)*	◆		◆
Occupancy sensor (ceiling or wall mount)	◆		◆
Smoke detector (duct mount)	◆	◆	◆
BACnet factory activation (MS/TP or TCP/IP)		◆	◆
Remote display (handheld or wall mount)		◆	◆
Room Pressure Sensor (with or without display)			◆
Duct Static Pressure Sensor (with or without display)			◆
Temperature Sensor Kit (wall or duct mount)**			◆

NOTES

*Sensor output is 0-10 vdc, for use as on/off or modulating control.

**Temperature Sensor Kit is for use with non-integrated heating.

Specifications may be subject to change without notice.

OPTIONS

Integrated Programmable Controls

MODELS

STANDARD CONTROLS

via dry contact and relays

Our ERV units are provided with a dry contact that can be used to control the unit with a variety of low-voltage (24VAC) control devices such as remote switches or relays. In addition, third-party analog output can be used to operate the ERV.

ENHANCED CONTROLS

Carel [c.pCOMini] with or without BACnet

Enhanced controls offer automated control, including temperature and humidity control with data trending via microprocessor controls and sensors that enable BMS connectivity.

PREMIUM CONTROLS

Carel [c.pCOMini] with expansion module with or without BACnet

Premium controls include all functionality of Enhanced-controls capabilities, as well as airflow and IAQ monitoring, demand control, electric or gas heating options, as well as RD-Series cooling and heating control.

FEATURE COMPARISON

	STANDARD CONTROLS	ENHANCED CONTROLS	PREMIUM CONTROLS
Ability to automatically enable and disable unit	◆	◆	◆
Enable the exhaust fan only (See note 1)	◆	◆	◆
Filter alarm for both sets of filters (See note 2)	◆	◆	◆
Bypass controls [†] (See note 3)	◆	◆	◆
Control isolation dampers [†] (See note 4)	◆	◆	◆
Supply fan only modulation for VFD/EC Motor units [†] (See note 5 and 6)	◆	◆	◆
Exhaust fan only modulation for VFD/EC Motor units [†] (See note 5 and 6)	◆	◆	◆
Internal time clock (See note 7)	◆	◆	◆
Defrost controls - Canada only	◆	◆	◆
Smoke detection - sensor required (See note 8)	◆	◆	◆
Demand control ventilation using CO2 - sensor required	◆		◆
Occupancy-based ventilation - sensor required	◆		◆
IAQ control ventilation using VOC - sensor required	◆		◆
Microprocessor controller		◆	◆
Provide supply and exhaust air temperatures		◆	◆
Provide outside and return air temperature and humidity [†]		◆	◆
Fan status on both fans ^{††}		◆	◆
Enable the supply fan only [†]	◆	◆	◆
Enable the exhaust fan only [†]	◆	◆	◆
Micro USB port		◆	◆
Fieldbus port		◆	◆
BACnet MS/TP or BACnet TCP/IP - activation required		◆	◆
Modbus		◆	◆
Data trending		◆	◆
Outside airflow rate			◆
Exhaust airflow rate			◆
Space pressure control			◆
Duct pressure control			◆
Unit supply air temp			◆
Heating enable			◆
Heating modulation - staged or modulating			◆
Cooling modulation* - staged or modulating			◆

*RD-Series units only

[†]Not available on EV450

^{††}EF fan status not available on EV450

NOTES FOR STANDARD CONTROLS ONLY

1. Relays and terminal block (option).
2. Differential pressure sensing tube and pressure switch with manual trip point adjustment (option), wiring to switch and alarm indication provided by others.
3. Option on HE-Series (IN) and standard on RD-Series.
4. 24V transformer contactors and relays (option).

5. VFD (option). Factory installed and wired.
6. EC Motor (option) Potentiometer control factory wired.
7. Independent time clock (option).
8. External smoke detector (option), field installed in series to shut off unit in adverse conditions.

Specifications may be subject to change without notice.

ACCESSORIES

Standard Controls

Standard controls are intended to turn RenewAire commercial energy recovery ventilation systems on and off at appropriate times. Specification, installation and set-up is an easy process. RenewAire HE, LE, and RD Series units come standard with a 24 volt transformer/relay package for easy interface with all controls.

It is not necessary that RenewAire controls be used to operate RenewAire units. A wide range of controls or building automation systems may be used.

***Available with Standard or Integrated Programmable Controls.**

****Only available with Integrated Programmable Controls.**

DIGITAL TIME CLOCK*

- 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



TC7D-W
Wall Mount



TC7D-E Control In
NEMA 3R Enclosures

CO2 SENSORS*

- 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*

- 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*

- 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

SMOKE DETECTOR*

- Photoelectric type detector
- Plug-in sensor
- Round, square or rectangular duct mounting options
- Easy access test/reset button and LED display
- For 100-4000 fpm duct air velocity applications
- 24 VAC power requirement
- Interconnect feature for multi-fan shutdown
- Built-in short circuit protection



SD-D
Duct Mount

Specifications may be subject to change without notice.

ACCESSORIES

Controls Continued

REMOTE DISPLAY**

- ♦ Hand held or wall mount
- ♦ LED display
- ♦ Keypad for easy programming



RD-M
Handheld or Wall Mount

PRESSURE SENSORS (ROOM PRESSURE/DUCT STATIC PRESSURE)**

- ♦ With or without display
- ♦ Differential pressure transmitter
- ♦ 4-20 mA or field selectable 0-10 & 0.5V output signal
- ♦ Integral barbed tubing connections that fit 1/8" and 3/16" ID tubing



RPS-WOD/DPS-WOD
Wall/Duct Mount
without Display



RPS-WD/DPS-WD
Wall/Duct Mount
with Display

BACNET FACTORY ACTIVATION**

- ♦ Allows for communication to a BAS via Bacnet NS/TP
- ♦ Factory programmed and tested



TEMPERATURE SENSOR KIT**

- ♦ Duct temperature sensors
- ♦ Hermetically sealed 304SS probe
- ♦ Operating range -40F to 210F
- ♦ Easy installation with integral mounting plate



TS
Wall/Duct Mount

Engineered Combo Curbs

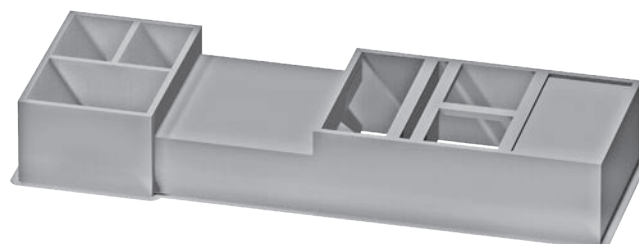
Exclusively designed for select Trane (Voyager and Precedent) and Carrier (WeatherExpert, WeatherMaster, and Weathermaker) models, RenewAire's engineered combo curb makes it easy to combine standard Air Handling Unit (AHU) rooftop applications with the benefits of RenewAire energy recovery ventilation. They eliminate the need for transitional ductwork between the RTU and the ERV, reducing the time and costs of installation. Simply install the curb, run the return and supply duct to the curb openings, then install the AHU and RenewAire units onto the curb. Additionally, the curbs allow the AHU unit to function in its standard operation as well as full-flow economizer modes.

Standard Construction

- ♦ Prime G-90, 18-gauge galvanized steel
- ♦ Fully welded and mitered corners (single piece curb lift)
- ♦ Base flange attachments for securing to the building structure
- ♦ 1 1/2" 3 lb. density fiberglass insulation
- ♦ Reinforced with cross channel supports on center
- ♦ Conforms to ASTM A653/A653M (standard specification for sheet metal)

Available Options (Special Order)

- ♦ Seismic and/or wind load applications
- ♦ Pitched roof applications
- ♦ High vibration applications
- ♦ Custom curb heights
- ♦ Heavier metal gauges
- ♦ Aluminum liners

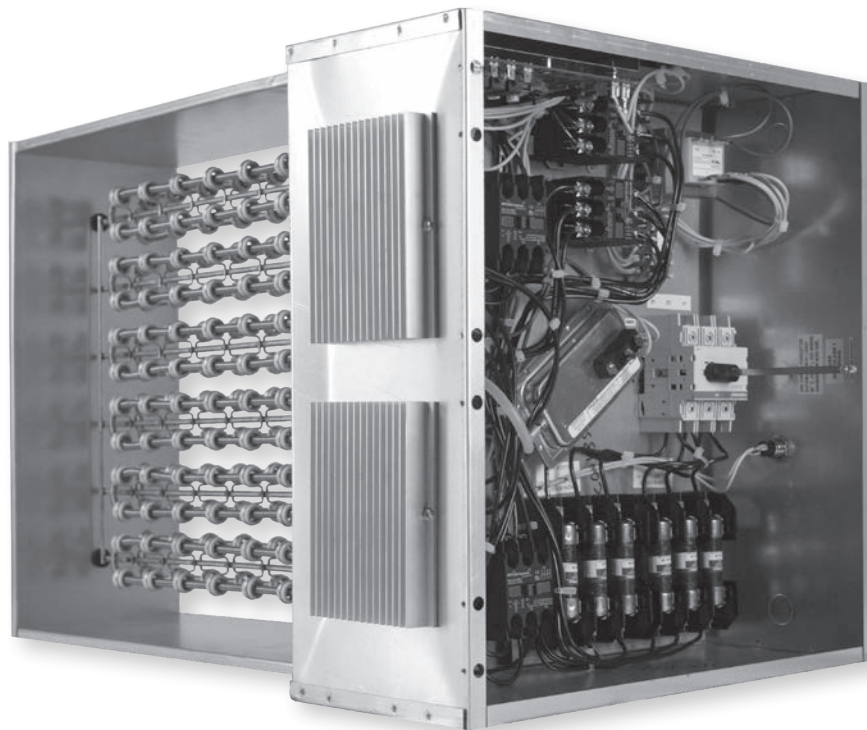


ACCESSORIES

EK Series Electric Duct Heater

AVAILABLE ON ALL 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 **CONFIGURABLE ELECTRIC DUCT HEATERS** as an accessory to our 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.



FLIPPABLE
EK SERIES
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:** UL Listed (UL1996 Standard) and CSA certified.

Specifications may be subject to change without notice.

EK SERIES

ELECTRIC DUCT HEATER



Download specification at:
renewaire.com/specifications

Electric Duct Heater (1-175 kW) Accessory



SPECIFICATIONS

Heater Type:

Electric Duct Heater

Typical KW Range:

1-175 kW

Standard Features:

A disconnecting magnetic control contactor per stage or each 48 Amp circuit within a stage
Open-coil element
Staged on/off
Control terminal board
Grounding lugs
Automatic limit switch for primary over-temperature protection
Manual reset limit switch for secondary over-temperature protection
Non-adjustable airflow switch
Standard control transformer - 24 VAC
Disconnect switch
Duct thermostat with sensor for on/off control
60-20-20 (Ni/Cr/Fe) C Grade element wire with nickel-plated terminals
Slip-in mount
No left/right hand
Vertical up/down flow

Voltages & Phase:

Single phase - 120, 208, 240, 277
Three phase - 208, 240, 480, 600

Control Voltage:

24 VAC

Dimensions:

Minimum - 8" x 8" (W x H)
Maximum - 99" x 99" (W x H)

Options:

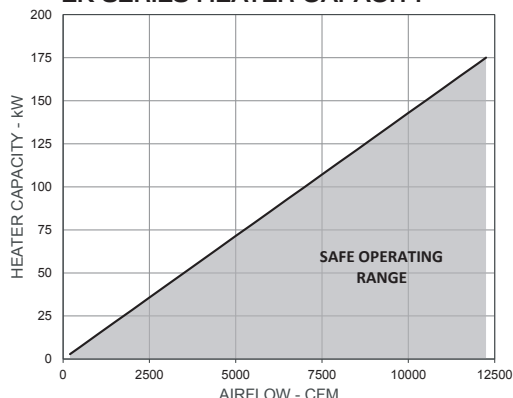
Flange mount
80-20 (Ni/Cr) A Grade element wire with stainless steel terminals
Recessed control box 1"
Gasketed cover - dust tight
Power fusing, standard for heaters drawing more than 48 Amps
2-stage
Electronic step controller (4-stage)
SCR (up to 96 Amps)
SCR Vernier (over 96 Amps)
Pilot light

Accessory:

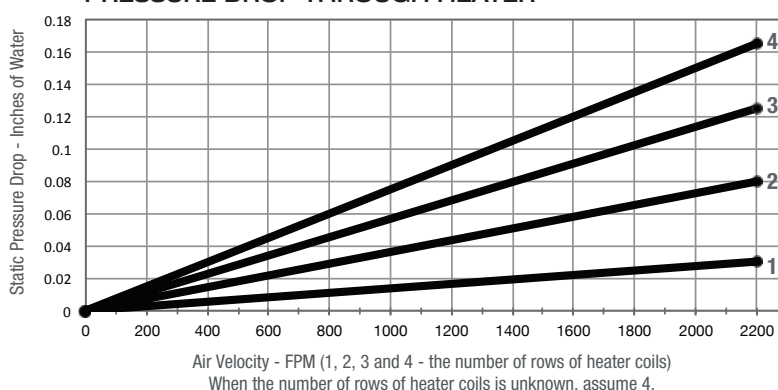
Room thermostat
Room/duct thermostat-sensor kit for SCR control

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

EK SERIES HEATER CAPACITY

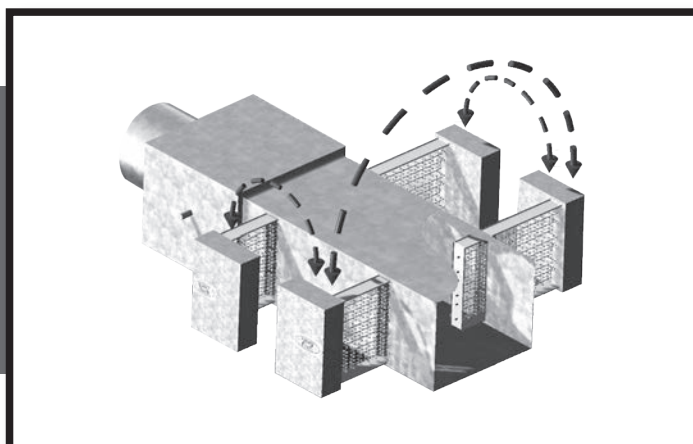


PRESSURE DROP THROUGH HEATER



FLIPPABLE CAPABILITIES

Unique to the EK series, this unit has the ability to flip 180°. Additionally, EK heaters feature both vertical up and vertical down airflow.



Specifications may be subject to change without notice.

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ACCESSORIES

Indirect Gas-Fired Duct Furnace

AVAILABLE ON ALL COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)

RenewAire offers some of 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 providing an indoor and outdoor **INDIRECT GAS-FIRED DUCT FURNACE** as an accessory for our commercial ERVs, in addition to the Electric Duct Heater, RenewAire ERVs now have increased flexibility for controlling supply-air temperature during cooler months. This enhances indoor comfort, makes ERV installations easier and is possible via a single source for ERVs and furnaces.



GH OUTDOOR SERIES
SHOWN

KEY BENEFITS

- ♦ **A single source for your ERV and furnace 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, as well as streamlines logistics for design engineers and contractors.
- ♦ **Increased capabilities and flexibility:** RenewAire offers design engineers the capacity to specify ERVs with a matching indoor or outdoor gas-fired furnace to increase ERV capabilities and flexibility for providing a single space or multiple spaces with tempered air conditions to equal wintertime loads.
- ♦ **More and easier applications:** The addition of the indoor and outdoor indirect gas-fired duct furnace as an option ensures that RenewAire ERVs can be easily specified on more applications that require gas heating of the recovered air.
- ♦ **Expert guidance:** The RenewAire customer-support team will provide detailed and expert guidance for how best to install the indoor and outdoor gas-fired duct furnace with an ERV.
- ♦ **Ultimate reliability:** RenewAire furnaces 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:** ETL-listed to the requirements of ANSI Z83.8/ CSA 2.6.



Indirect Gas-Fired Duct Furnace Accessory



INDOOR

Indirect Gas-Fired Duct Furnace



Indoor IN-KI shown

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Heater Type:

Indirect Gas-Fired Duct Furnace

Typical Input Capacity (MBH):

50, 75, 100, 125, 150, 175,
200, 250, 300, 350, 400

Standard Features:

Tubular heaters
Indirect natural gas fired
Indoor installation
80% thermal efficiency
Horizontal airflow
Rated for elevations from 0 – 2,000 ft.
409 stainless steel heat exchanger
409 stainless steel burners
Flue/combustion air – indoor models
Vertical (separated indoor)
Vertical top exhaust with louvered intake
Direct spark ignition
1-stage/2-stage gas controls
Induced draft venting
Terminal block for power and control wiring
Automatic high limit safety shut-off
Auxiliary manual high limit switch
Combustion air pressure switch
Air proving switch
Combination gas valve with shutoff

Standard Features (continued):

Flame rollout switch
Manual shut off valve
3/8" condensate drain connection

Voltages & Phase:

Single phase - 120V, 208V, 230V

Control Voltage:

24 VAC

Dimensions:

See table 2

Shipping:

Shipped loose with base unit and installed in the field

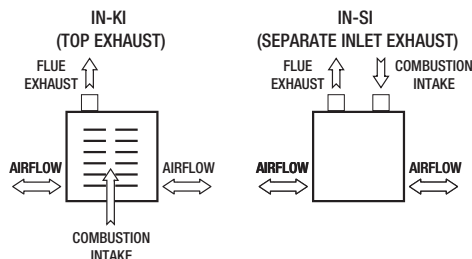
Options:

Indirect propane fired fuel
Elevation correction for elevation > 2,000 ft.
304 stainless steel heat exchanger
5:1 continuous electronic modulation for all furnaces
10:1 continuous electronic modulation for furnaces
200 MBH and larger
Duct thermostat for modulation control
Disconnect switch
Power fusing

Accessory:

Duct thermostat for 1-stage/2-stage control
Duct thermostat for modulation control

FLUE AND COMBUSTION AIR CONFIGURATION



Note: The total equivalent length of vent pipe must not exceed 50 feet. If equivalent length exceeds 50 feet refer to IOM for recommendations.

Caution: All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

TEMPERATURE RISE AND PRESSURE DROP

FIGURE 1 GAS FURNACE 50-200 MBH

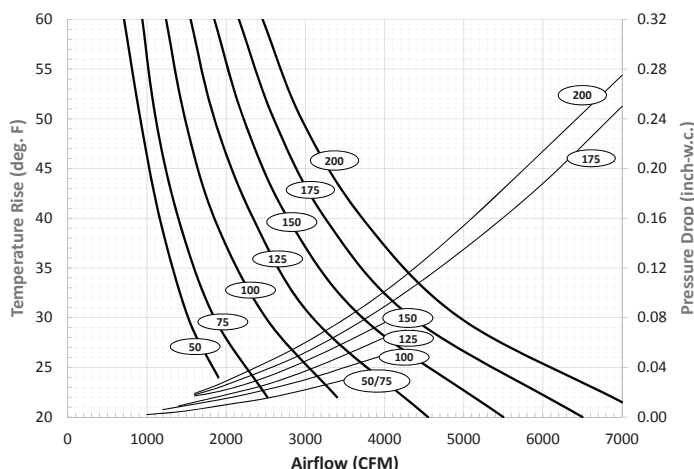
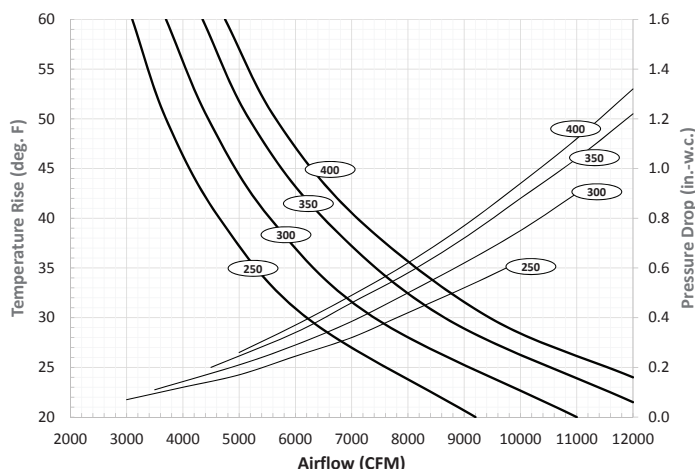


FIGURE 2 GAS FURNACE 250-400 MBH



Specifications may be subject to change without notice.

DUCT FURNACE DIMENSIONS

FIGURE 3 IN-KI (TOP EXHAUST INDOOR)

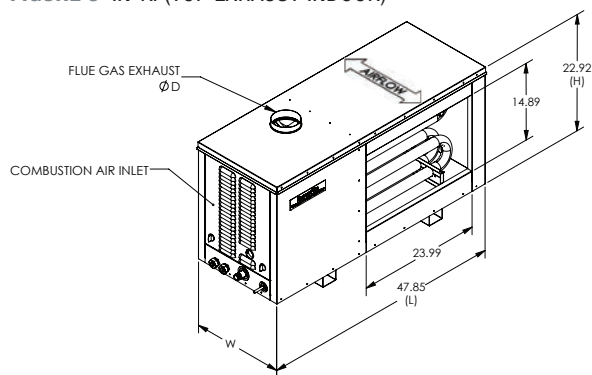


FIGURE 4 IN-SI (SEPARATE INLET EXHAUST INDOOR)

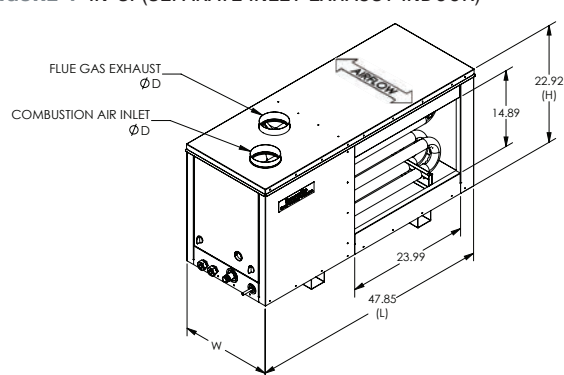
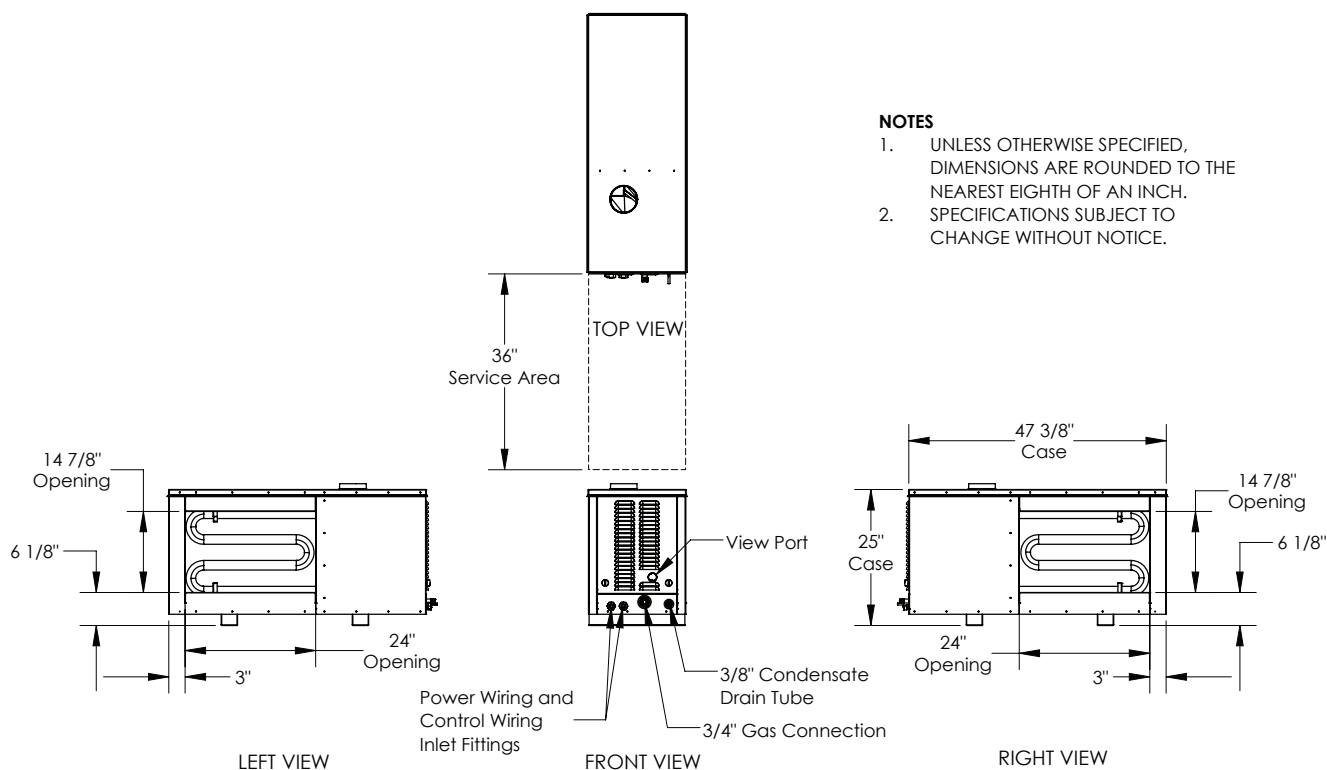


TABLE 2

Size	Tubes	Input Rate	Output	Min/Max Temperature Rise through Furnace (°F)									Vent Locations				Unit Weight	Shipping Weight
				20	25	30	35	40	45	50	55	60	IN-KI, IN-SI			Diameter		
				Nom. Duct Opening Airflow (CFM)									"W"	"L"	"H"	"D"		
MBH	Qty.	Btuh	Btuh										inch	inch	inch	inch	lb	lb
50	3	50,000	40,000	1852	1481	1235	1058	926	823	741	673	617	15.7	47.8	22.9	5	127	207
75	3	75,000	60,000	2778	2222	1852	1587	1389	1235	1111	1010	926	15.7				127	207
100	4	100,000	80,000	3704	2963	2469	2116	1852	1646	1481	1347	1235	18.4				142	222
125	5	125,000	100,000	4630	3704	3086	2646	2315	2058	1852	1684	1543	21.2				169	249
150	6	150,000	120,000	5556	4444	3704	3175	2778	2469	2222	2020	1852	23.9				160	240
175	7	175,000	140,000	6481	5185	4321	3704	3241	2881	2593	2357	2160	26.7				180	260
200	8	200,000	160,000	7407	5926	4938	4233	3704	3292	2963	2694	2469	29.4	47.8	22.9	6	196	276
250	10	250,000	200,000	9259	7407	6173	5291	4630	4115	3704	3367	3086	34.9				245	325
300	12	300,000	240,000	11111	8889	7407	6349	5556	4938	4444	4040	3704	40.4				279	384
350	14	350,000	280,000	12963	10370	8642	7407	6481	5761	5185	4714	4321	45.9				324	429
400	15	400,000	320,000	14815	11852	9877	8466	7407	6584	5926	5387	4938	48.7				394	499

Note: For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS



GH OUTDOOR Indirect Gas-Fired Duct Furnace Accessory



ROOFTOP Indirect Gas-Fired Duct Furnace



Rooftop RT-NO shown

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Heater Type:

Indirect Gas-Fired Duct Furnace

Typical Input Capacity (MBH):

50, 75, 100, 125, 150, 175,
200, 250, 300, 350, 400

Standard Features:

Tubular heaters
Indirect natural gas fired
Outdoor installation
80% thermal efficiency
Horizontal airflow
Rated for elevations from 0 – 2,000 ft.
409 stainless steel heat exchanger
409 stainless steel burners
Flue/combustion air – outdoor models
Horizontal separated outdoor with hoods
Vertical top exhaust with intake hood
Direct spark ignition
2-stage gas controls
Induced draft venting
Terminal block for power and control wiring
Automatic high limit safety shut-off
Auxiliary manual high limit switch
Combustion air pressure switch
Air proving switch

Standard Features (continued):

Combination gas valve with shutoff
Flame rollout switch
Manual shut off valve
3/8" condensate drain connection

Voltages & Phase:

Single phase - 120V, 208V, 230V

Control Voltage:

24 VAC

Dimensions:

See table 1

Shipping:

Shipped loose with base unit and installed in the field

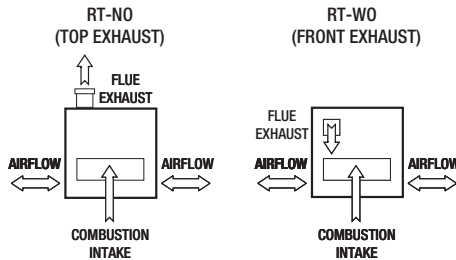
Options:

Indirect propane fired fuel
Elevation correction for elevation > 2,000 ft.
304 stainless steel heat exchanger
5:1 continuous electronic modulation for all furnaces
10:1 continuous electronic modulation for furnaces
200 MBH and larger
Duct thermostat for modulation control
Disconnect switch
Power fusing

Accessory:

Duct thermostat for 2-stage control
Duct thermostat for modulation control
Duct curb

FLUE AND COMBUSTION AIR CONFIGURATION



Caution: All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

TEMPERATURE RISE AND PRESSURE DROP

FIGURE 1 GAS FURNACE 50-200 MBH

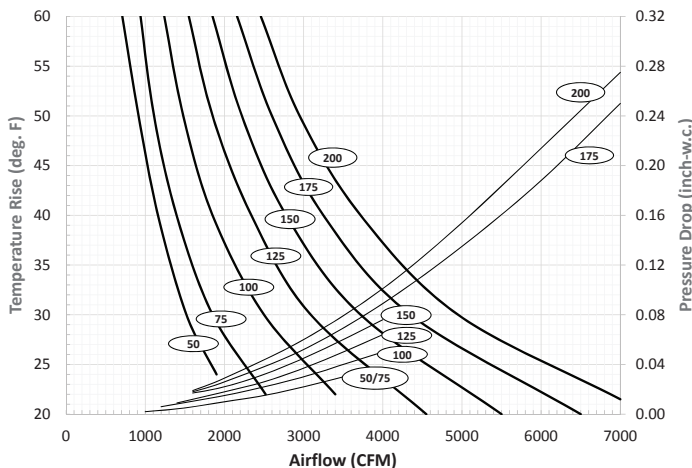
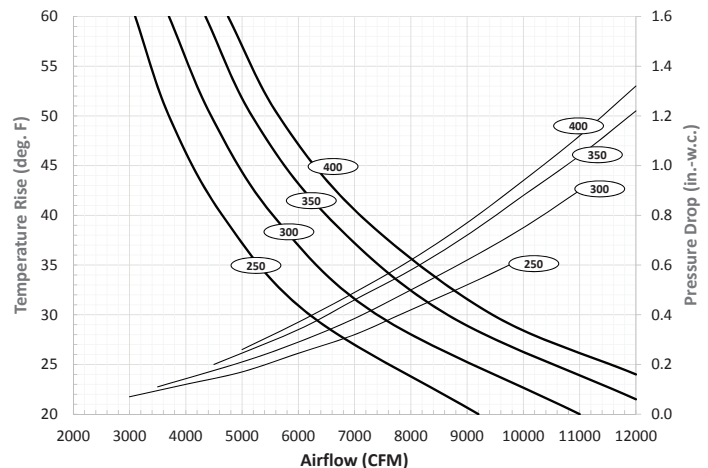


FIGURE 2 GAS FURNACE 250-400 MBH



Specifications may be subject to change without notice.

DUCT FURNACE DIMENSIONS

FIGURE 3 RT-NO (TOP EXHAUST OUTDOOR)

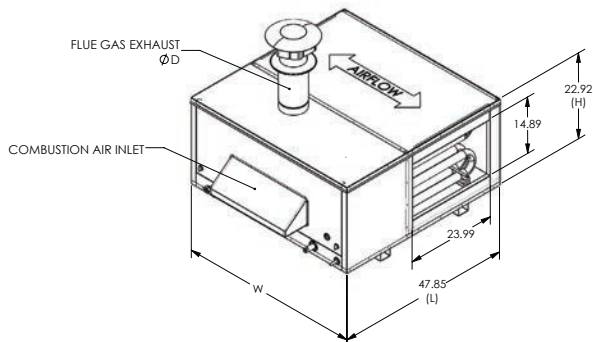


FIGURE 4 RT-WO (FRONT EXHAUST OUTDOOR)

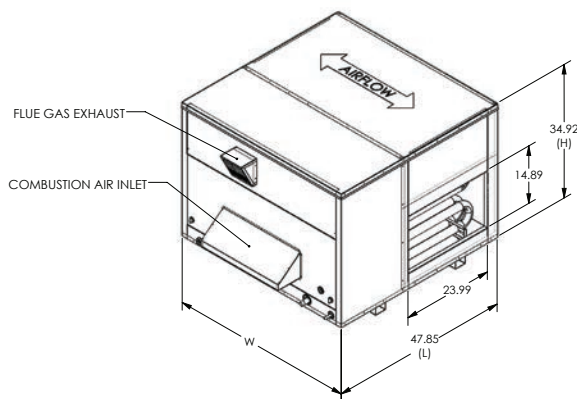
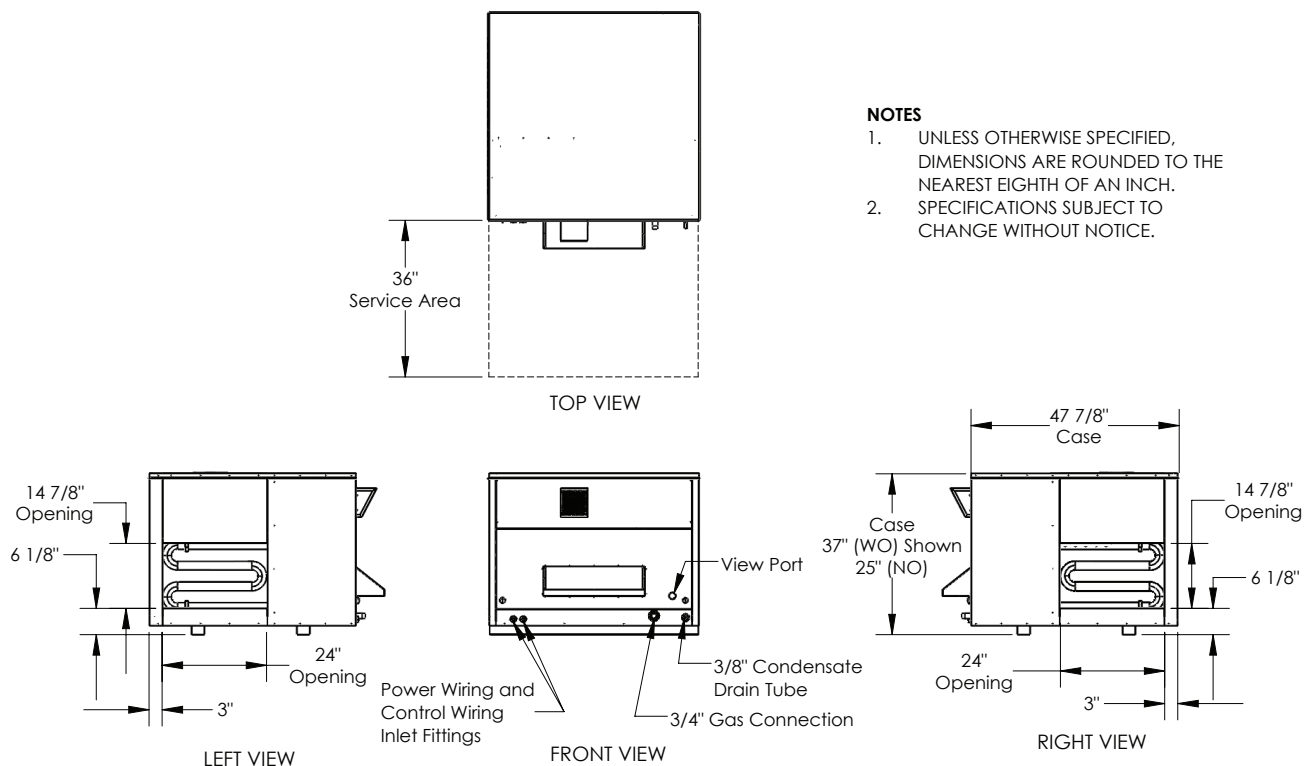


TABLE 1

Size	Tubes	Input Rate	Output	Min/Max Temperature Rise through Furnace (°F)										Vent Locations				Unit Weight	Shipping Weight	
				20	25	30	35	40	45	50	55	60	RT-NO, RT-WO	RT-NO	RT-WO	Diameter				
													"W"	"L "	"H"	"H"	"D"			
MBH	Qty.	Btuh	Btuh	Nom. Duct Opening Airflow (CFM)										inch	inch	inch	inch	inch	lb	lb
50	3	50,000	40,000	1852	1481	1235	1058	926	823	741	673	617	15.7	47.8	22.9	34.9	5	127	207	
75	3	75,000	60,000	2778	2222	1852	1587	1389	1235	1111	1010	926	15.7					127	207	
100	4	100,000	80,000	3704	2963	2469	2116	1852	1646	1481	1347	1235	18.4					142	222	
125	5	125,000	100,000	4630	3704	3086	2646	2315	2058	1852	1684	1543	21.2					169	249	
150	6	150,000	120,000	5556	4444	3704	3175	2778	2469	2222	2020	1852	23.9					160	240	
175	7	175,000	140,000	6481	5185	4321	3704	3241	2881	2593	2357	2160	26.7					180	260	
200	8	200,000	160,000	7407	5926	4938	4233	3704	3292	2963	2694	2469	29.4	47.8	22.9	34.9	6	196	276	
250	10	250,000	200,000	9259	7407	6173	5291	4630	4115	3704	3367	3086	34.9					245	325	
300	12	300,000	240,000	11111	8889	7407	6349	5556	4938	4444	4040	3704	40.4					279	384	
350	14	350,000	280,000	12963	10370	8642	7407	6481	5761	5185	4714	4321	45.9					324	429	
400	15	400,000	320,000	14815	11852	9877	8466	7407	6584	5926	5387	4938	48.7					394	499	

Note: For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS



Specifications may be subject to change without notice.

AHRI 1060

CERTIFIED PERFORMANCE

Energy recovery component certified in accordance with AHRI Standard 1060-2013.
Actual performance in packaged equipment may vary.



AHRI-1060 Certified Performance - Model Number L125-G5												
Type			Tilt Angle			Nominal Airflow				Pressure Drop		
Plate			N/A			100% - 750 SCFM 75% - 563 SCFM				0.65 in. H ₂ O		
Leakage Ratings				Thermal Effectiveness Ratings at 0" Pressure Differential								
Pressure Differential	EATR	OACF	Purge Angle or Setting	Nominal Airflow		Sensible	Latent	Total	Net Airflow	Net Sensible	Net Latent	Net Total
-1 in. H ₂ O	1.0%	1.00	N/A	750 CFM	Heating Cooling	70% 70%	52% 42%	64% 53%	750 CFM	70% 70%	52% 42%	64% 53%
0 in. H ₂ O	0.0%	1.02	N/A	563 CFM	Heating Cooling	74% 74%	59% 49%	69% 58%	563 CFM	74% 74%	59% 49%	69% 58%
1 in. H ₂ O	0.0%	1.05	N/A									

NOTE: SCFM = Standard Cubic Feet per Minute OACF = Outdoor Air Correction Factor EATR = Exhaust Air Transfer Ratio N/A = Not Applicable

MODEL NUMBER			-																															
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25									

Digit 18:	Voltage (see Restrictions 7 & 8)
"1" = 120V "2" = 208V "3" = 240V "4" = 480V "8" = 600V "9" = 277V	
Digit 19:	Phase
"1" = Single-Phase "3" = Three-Phase	
Digit 20:	Phase Fusing (see Restriction 9)
"-" = None "F" = Fusing	
Digit 21:	Stage
"1" = Single (Standard) "2" = 2-Stage "4" = 4-Stage	
Digit 22:	Control Voltage
"S" = 24VAC	
Digit 23:	Control Type (see Restrictions 10, 11 & 12)
"D" = Duct Thermostat with Sensor (Standard) "E" = Electronic Step Control with Sensor "S" = SCR (For BAS System) "V" = SCR with Analog Sensor (0-10Vdc)	
Digit 24:	Time Delay
"-" = None (Standard)	
Digit 25:	Pilot Light
"N" = None (Standard) "L" = Light	

Restrictions:
1: Width inches entered as a whole number. 2: Height inches entered as a whole number. 3: Heater density should be less than 30kW/ft². DENSITY= $\frac{\text{HEATER CAPACITY (kW)}}{(\text{W}'' \times \text{H}'')/144}$ < 30 4: Heater capacity kW entered as a whole number. 5: Formulas for calculating kW and temperature rise: kW = $\frac{\text{CFM} \times \Delta \text{T}}{3150}$ $\Delta \text{T} = \frac{\text{kW} \times 3150}{\text{CFM}}$ 7: Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase). 8: Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase). 9: Power Fusing Code "F" required when amperage is >48A. (based on kW and voltage) 10: Control Type Code "D" only available with Stage Code "1" & "2". 11: Control Type Code "E" only available with Stage Code "4". 12: Control Type Code "S" & "V" only available with Stage Code "1", unless amperage is greater than or equal to 96A, then Stage Code "4" is automatically selected.



RenewAire®
Energy Recovery Ventilation

GH SERIES INDIRECT GAS-FIRED DUCT FURNACE CONFIGURATION GUIDE

Note: Not all options are available on every model.

MODEL NUMBER			-																	-			-		
DIGIT NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Digits 1 - 2:	Duct Furnace Type
"GH" = Gas Furnace 50-400 MBH	
Digits 4 - 5:	Location
"IN" = Indoor "RT" = Rooftop	
Digits 6 - 7:	Vent Location
"SI" = Separated Top Indoor "KI" = Top Exhaust Indoor "WO" = Front Exhaust Outdoor "NO" = Top Exhaust Outdoor	
Digits 8 - 10:	Input Capacity in MBH
"050", "075", "100", "125", "150", "175", "200", "250", "300", "350", "400"	
Digit 11:	Fuel Type
"N" = Natural Gas (Standard) "P" = Propane	
Digits 12 - 13:	Tube Material
"SS" = 409 Stainless Steel (Standard) "CS" = 304 Stainless Steel	
Digit 14:	Airflow Orientation
"H" = Horizontal	
Digit 15:	Thermal Efficiency
"S" = 80%	
Digit 16:	Elevation
"S" = 0 - 2000' (Standard) "2" = 2001' - 3000' "3" = 3001' - 4000' "4" = 4001' - 5000' "5" = 5001' - 6000' "6" = 6001' - 7000' "Y" = 7001' and above	

Digit 17:	Disconnect Switch
"N" = None (Standard) "D" = Disconnect Switch	
Digit 18:	System/Inducer Voltage (see Restriction 2)
"1" = 115V "2" = 208V "3" = 230V	
Digit 19:	Phase
"1" = Single Phase	
Digit 20:	Power Fusing (see Restriction 3)
"N" = None "F" = Fusing	
Digit 22:	Control Voltage
"S" = 24VAC	
Digit 23:	Control Type (see Restriction 1)
"T" = Two Stage High/Low with Thermostat (Standard) "S" = Single Stage On/Off with Thermostat "E" = Modulating 5:1 (Natural Gas)/3:1 (Propane) with Thermostat "W" = Modulating 10:1 (Natural Gas)/6:1 (Propane) with Thermostat "2" = Two Stage High/Low without Thermostat "1" = Single Stage On/Off without Thermostat "M" = Modulating 5:1 (Natural Gas)/3:1 (Propane) without Thermostat "V" = Modulating 10:1 (Natural Gas)/6:1 (Propane) without Thermostat	

***NOTE:**

Digits 3, 21, 24 & 25 are not used in this model.

All heaters come with standard features: Air Proving Switch, Auxiliary High Temperature Limit Switch
Descriptions of feature and options are found in the installation and operation manual.

Restrictions:	
1. Control Type Code "V" & "W" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150" & "175". 2. System/Inducer Voltage Code "2" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150", "175" & "200". 3. Power Fusing Code "F" only available with Disconnect Switch Code "D". Power Fusing Code "F" always selected when Disconnect Switch Code "D" is selected.	

For Technical Support E-mail: RenewaireSupport@renewaire.com
To Place an Order E-mail: RenewaireOrders@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

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.

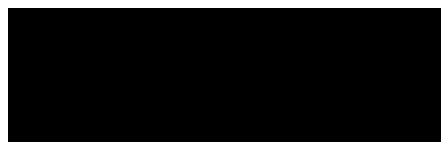
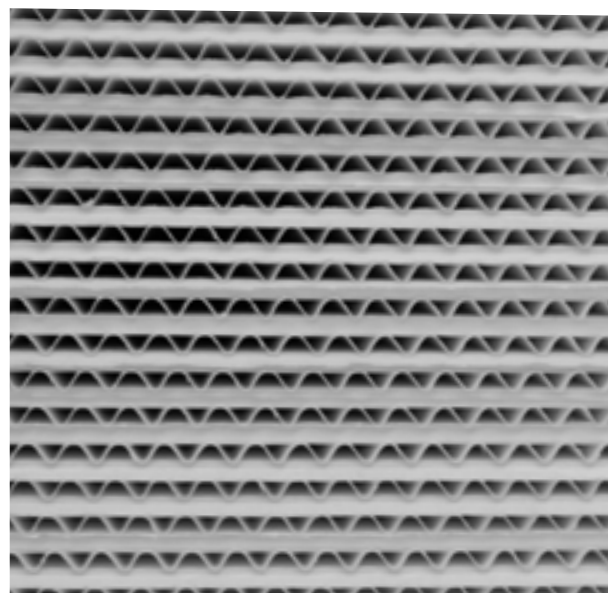
GOVERNMENT

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.



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Energy Recovery Ventilation



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