

Energy Recovery Ventilator (ERV)

EERVE125A1P00A

EERVE225A1P00A

EERVE280A1P00A

⚠ WARNING: HAZARDOUS VOLTAGE – DISCONNECT POWER BEFORE SERVICING

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

IMPORTANT— This Document is **customer property** and is to remain with this unit. Please return to service information pack upon completion of work.

1. GENERAL INFORMATION

⚠ WARNING

THIS INFORMATION IS FOR USE BY INDIVIDUALS HAVING ADEQUATE BACKGROUNDS OF ELECTRICAL AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A CENTRAL AIR CONDITIONING PRODUCT INCLUDING AN ERV MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

⚠ CAUTION

To prevent shortening its service life, the ERV should not be used during the finishing phases of construction. Compounds used in construction and construction dust may cause rapid deterioration of the cabinet and internal components. To avoid damage keep drywall spray, construction dust, etc from entering the air stream of the unit.

These instructions do not cover all variations in systems or provide for every possible contingency. Should further information be desired or particular problems arise which are not covered sufficiently by this manual, contact your local distributor or the manufacturer as listed on the ERV nameplate.

BEFORE YOU BEGIN THE INSTALLATION

Check carefully for any shipping damage. This must be reported to and claims made against the transportation company immediately. Open carton, remove packing material, loose parts and ship-with literature. Check to be sure all major components are in the unit. Any missing parts should be reported to your supplier at once, and replaced with authorized parts only.

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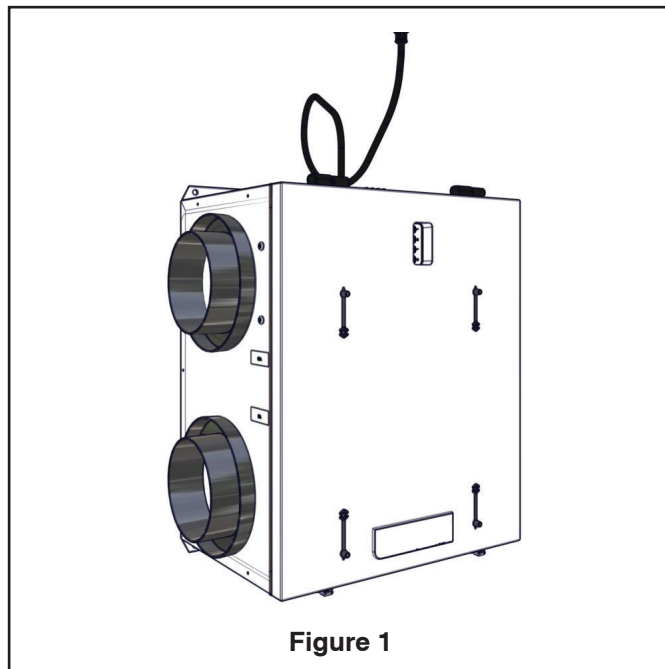


Figure 1

⚠ WARNING

RISK OF ELECTRIC SHOCK OR EQUIPMENT DAMAGE

Whenever electrical wiring is connected, disconnected or changed, the power supply to the ERV and its controls must be disconnected. Lock and tag the disconnect switch or circuit breaker to prevent accidental reconnection of electrical power.

⚠ WARNING

RISK OF CONTACT WITH HIGH SPEED MOVING PARTS

This appliance has two high speed fans that can cause injury or be damaged if objects come in contact with the impellers when they are spinning. The fans may be controlled by external controlling devices and switch on at any time. When working in the area of fans, electric power to the unit must be disconnected.

⚠ WARNING

RISK OF INJURY FROM FALLING OBJECTS

Installation of this unit requires hoisting hardware overhead and working directly beneath heavy objects during the installation process. Observe all OSHA-approved work practices. Always wear OSHA-approved Personal Protective Equipment (PPE).

IMPORTANT: All ductwork is to be designed and installed in accordance with SMACNA guidelines.

IMPORTANT: This ERV is intended for ducted ventilations only. Ducting at least 40 inches [1meter] in length must be installed on all four airstreams.

IMPORTANT: Only persons who have been properly trained and authorized are to access the ERV electrical box and the controller. Changes to the controller are to be made only by trained and authorized personnel.

IMPORTANT: This equipment is to be installed by following industry best practices and all applicable codes. Any damage to components, assemblies, subassemblies or the cabinet which is caused by improper installation practices will void the warranty.

2. DESCRIPTION

The ERV (Energy Recovery Ventilator) units are multi-speed air-to-air energy recovery ventilators that are designed for residential application and have multiple installation options. They can be suspended from floor joists, or they can be mounted on a wall or other object. Each type of installation can be accomplished by a single person. The ERV units S, M, and L has an integral line cord, ready to be plugged into a standard 120VAC receptacle.

The ERV exhausts stale Return Air (RA) while transferring both latent and sensible energy between an incoming fresh outdoor air stream (OA). Energy recovery is accomplished by a static plate heat exchanger core. Each air stream has a 120V EC fan, which provides airflow from 30 to 130 CFM for the EERVE125 from 30 to 225 CFM for the EERVE225, and from 30 to 280 CFM for the EERVE280.

The airflow rate can be changed from Continuous to boost at any time, using many different optional sensors or control devices such as the Push Button Boost Timer (PBT).

The unit may operate with balanced or unbalanced airflow. However, balanced airflow provides the best energy recovery. Airflow can be adjusted using the motor potentiometers and the values read via the door pressure taps.

The hinged door has an opening for viewing and access to the potentiometers. The entire cabinet is lined with foil-backed 1" thick foam insulation.

The ERV units has two different operating modes: Continuous and Boost.

1. Continuous mode should be set to provide the minimum ventilation requirement.
2. Boost mode can be used to supply and exhaust a greater volume of air, up to 130 CFM for EERVE125, up to 225 CFM for the EERVE225, or 280 CFM for the EERVE280.

The two operating modes are selectable and controlled independently so that different controlling methods can be used to switch back and forth.

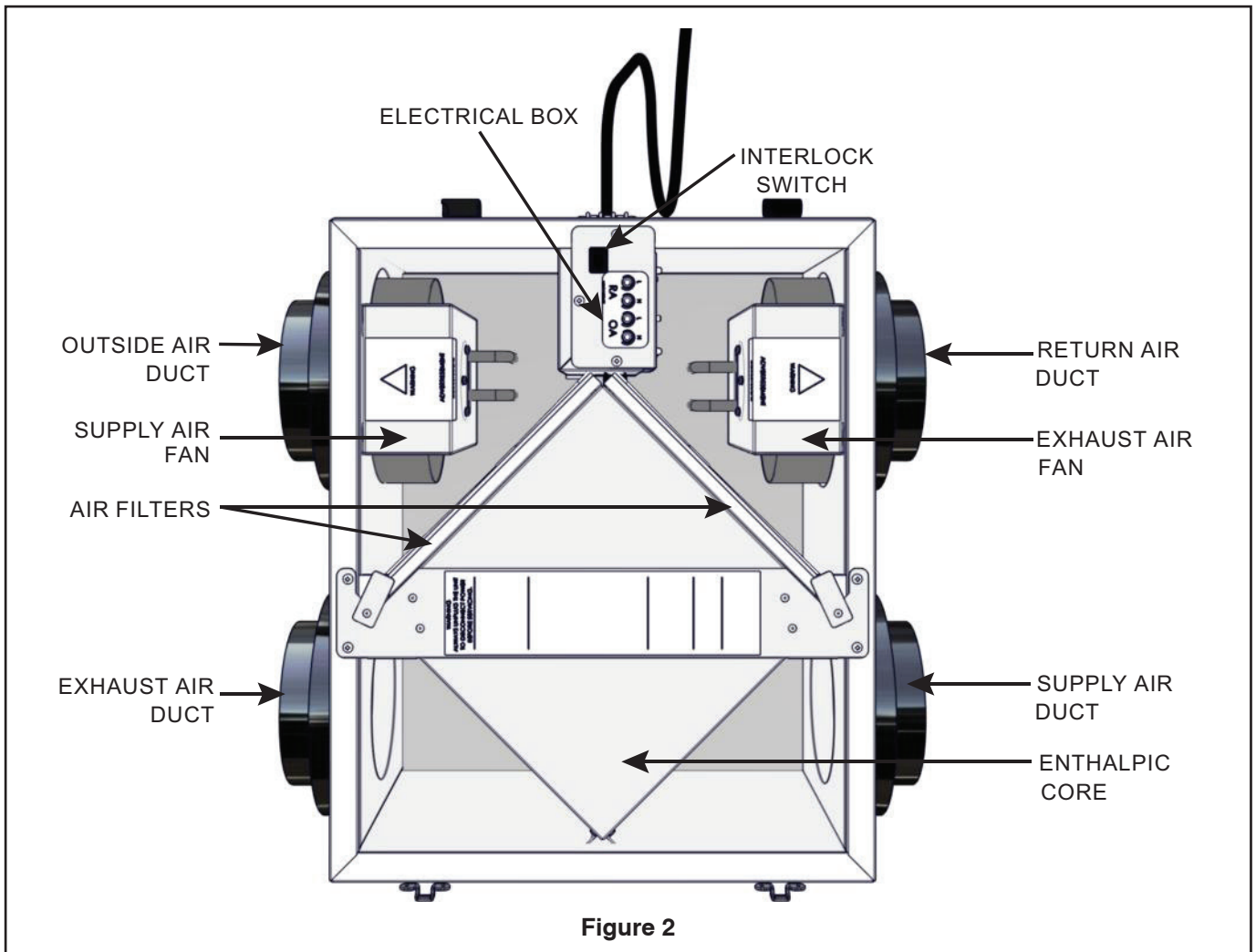


Figure 2

3. COMPONENT DESCRIPTION

3.1 Cabinet

The cabinet is built of 22 gauge (0.64 mm) galvanized steel and is painted white. It has a hinged, removable door. The exterior of the unit boasts four air pressure test ports, one low voltage terminal strip, an access/viewing port, and locations for four duct connectors, (6" or 8", shipped loose).

3.1.1 Removable Door with Interlock Switch

The insulated access door is hinged on one side and has two securing latches on the other side. The hinges are separable to allow for removal of the access door for servicing. The door has an access/viewing port built in to permit adjustment of the fan potentiometers. Directly behind the access door is a pressure-sensitive interlock switch that will shut off power to the unit if the door is opened during operation. Also installed on the door are four air pressure test ports, used for connecting a manometer and taking air pressure measurements. See Figure 3.

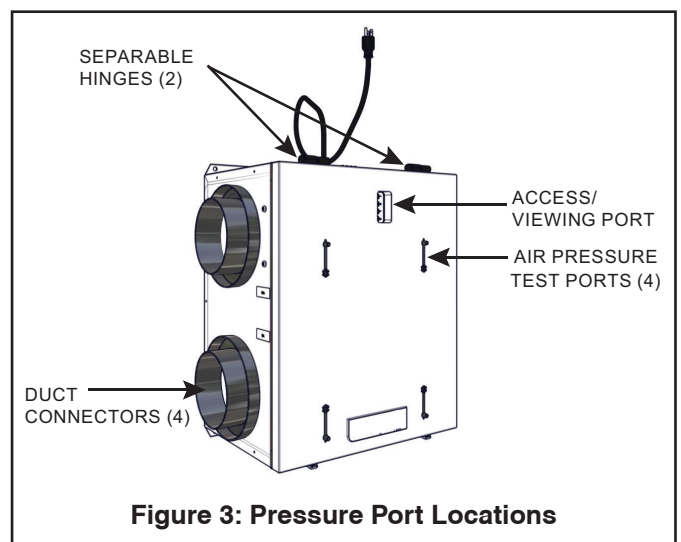


Figure 3: Pressure Port Locations

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3.2 Fans

The ERV unit has two advanced, high efficiency electronically commutated (EC) 120VDC variable speed fans. One fan is used for intake air (Outdoor Air/Supply Air) and the other fan is for the exhaust airstream (Return Air/Exhaust Air). The speed of each fan is controlled independently by a 0–10VDC signal from the controller.

3.3 Controller

The controller provides the signal to the EC motors using integral potentiometers. Incoming line voltage powers both fans and also a step-down Class II transformer which provides 24VAC to the externally-mounted low-voltage terminal strips. The controller has four potentiometers that are adjusted by the user to establish fan speeds for each operation mode.

Each ERV unit has one terminal strip mounted on the end of the unit. The terminal strip is a 24VAC power supply terminal. The unit control board provides up to 6VA (approximately 0.25A) which can be used to power the various optional control accessories.

3.4 Filters

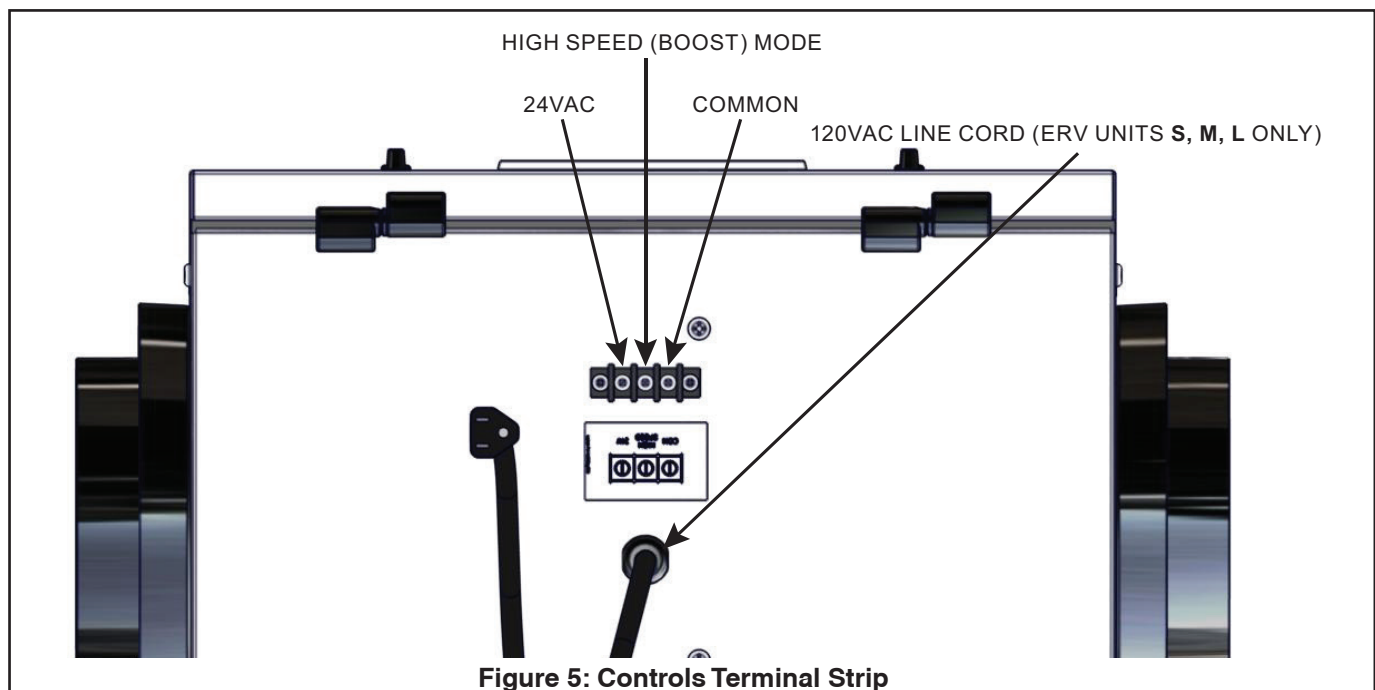
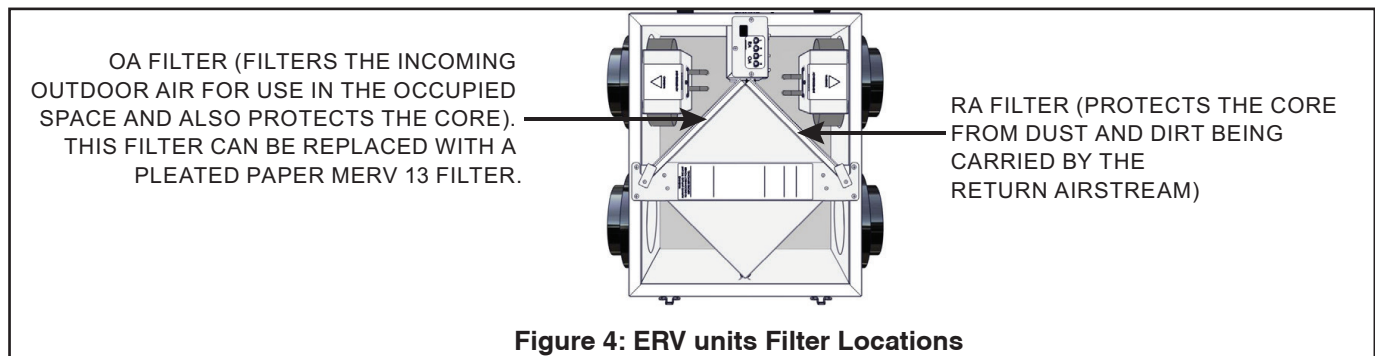
Each ERV unit is equipped at the factory with mesh-type anti-microbial MERV 8 filters on both the OA and RA sides of the core. If desired, the mesh-type OA filter can be replaced with an optional MERV 13 pleated paper filter accessory, which will ship loose. See Figure 4.

3.5 Enthalpic Core

Each ERV unit has a static-plate, cross-flow core separates the outgoing, polluted indoor airstream from the incoming supply airstream—while simultaneously transferring total energy (heat and water vapor) between the two. Airstreams do not mix, and pollutants are not transferred across partition plates.

3.6 Controls Terminal Strip

A single terminal strip is located at the end of each ERV unit, providing a 24VAC connection to Boost mode or to control accessories. For detailed information, see the Low-Voltage Wiring Diagrams in this manual. See Figure 5.



4. PRE-INSTALLATION CHECKS

Read all instructions before installing the unit.

1. Use the unit in the manner intended by the manufacturer. If you have questions contact your local distributor.
2. Before servicing or cleaning the unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally.

⚠ CAUTION

More than one disconnect switch may be required to de-energize the equipment before servicing

3. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction codes and standards.
4. When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.
5. Never place a switch where it can be reached from a tub, shower or sink.
6. This unit is provided with a grounded power cord which must be plugged into a properly grounded outlet.

⚠ WARNING

CARBON MONOXIDE POISONING HAZARD
Failure to provide sufficient air needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment that might be installed in the area affected by this equipment may cause Personal Injury or Death.

The unit is intended for general building ventilation. Connection of the unit to ventilation exhaust, drier exhaust or range exhausts will damage the unit and could result in hazardous levels of toxic materials in the home. If this unit is exhausting air from a space in which chimney – vented fuel burning equipment is located, take steps to assure that the combustion air supply is not affected. Follow the heating equipment manufacturer's guidelines and safety standards such as those published by the National Fire Protection Association (NFPA), the American Society For Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and local code authorities.

⚠ CAUTION

This unit is intended for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

⚠ CAUTION

This installation manual shows the suggested installation method. Any structural alterations necessary for installation must comply with all applicable building, health and safety code requirements.

4.1 ERV LOCATION CONSIDERATIONS

- Select a location to install the ERV with the objective of keeping the fresh air supply ducts and exhaust ducts as short as possible. Short runs provide the best performance and help ensure system balance; the amount of air brought into the home equals the amount of air exhausted. Unbalanced air flow can cause poor performance and may result in frosting of the core during extremely cold weather. See section 7 for ducting guidelines.
- If the fresh air supply from the ERV is connected to the heating and cooling system return air duct, locate the ERV as close to the furnace or air handler as possible.
- If the ERV is to be installed independent from the forced air heating and cooling system locate the ERV to minimize the length of all duct runs.
- An electrical outlet must be located within reach of the ERV power cord. The power cord is 34 inches long.
- Provide at least 23" of clearance at the front of the ERV to open door latches and for the door to be able to swing open at least 90° for service access to the blowers, filters and heat exchanger core.
- Provide access for maintenance so the front cover can be opened to allow cleaning the core and replacing the filters.
- ERV's may be installed in a basement, mechanical room, storage area, garage, accessible attic or crawl area. Conditioned spaces are preferred.
- If you wish to install the unit in an attic or other unconditioned space, you must insulate all of the unit's ductwork that is located in the attic. Use at least R-6 insulation.
- Wall brackets must be supported by two wall studs. If the desired location of the ERV units does not permit support by two wall studs, the ERV units must be mounted on a user-supplied 3/4" thick plywood panel that is anchored on two wall studs.
- The door is equipped with slide-off hinges. For the homeowner's convenience, it is helpful to orient the unit so that the door is easily removed when unlatched.

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4.2 UNIT WEIGHTS

- The hanging weight of each EERVE125 is approximately 32 pounds.
- The hanging weight of each EERVE225 is approximately 36 pounds.
- The hanging weight of each EERVE 280 is approximately 52 pounds.
- The shipping weight of each EERVE125 is approximately 38 pounds.
- The shipping weight of each EERVE225 is approximately 48 pounds.
- The shipping weight of each EERVE 280 is approximately 66 pounds.

5. UNIT INSTALLATION

UNIT MAY BE INSTALLED IN ANY ORIENTATION

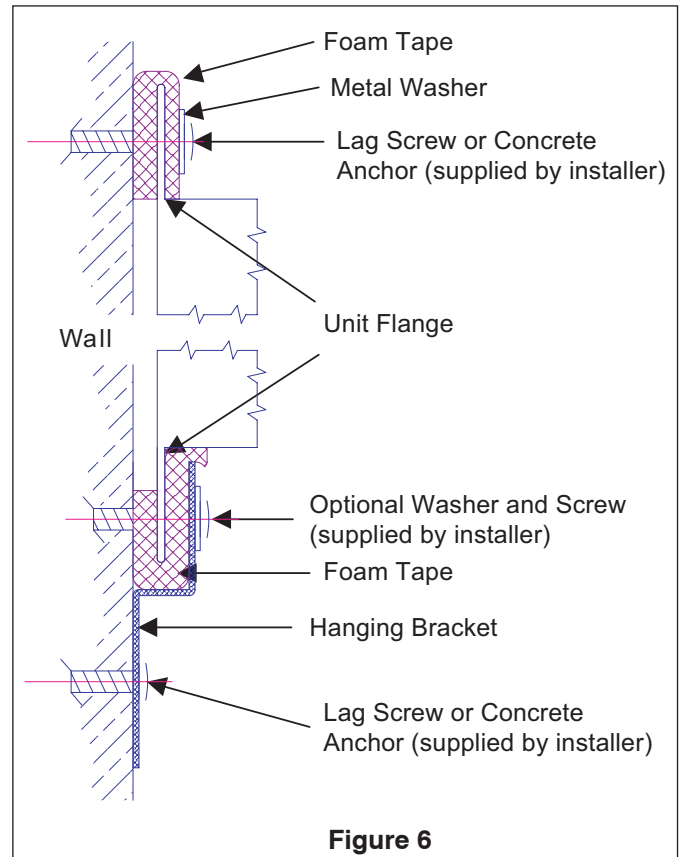
Orient the unit for the simplest duct layout and connections.

May be installed in any position providing sufficient clearance. Preferred position is horizontal so that the hinged access door can swing down to allow for easiest filter changes and cleaning of the enthalpic core.

INSTALLATION ON A CONCRETE FOUNDATION WALL OR STUD WALL

Mount hanging bracket to the wall with appropriate concrete anchors. Use pre-cut foam tape from small parts bag. Remove backing and apply two pieces of foam tape equally spaced along the unit's mounting flange to be held by the hanging bracket. Apply the other two pieces of foam over two holes that will be used for fastening, on the other flange. The tape should be applied in a "U" shape to cushion both the front and back of the integral flanges.

Lift unit and slide unit flange into the hanging bracket. Using metal flat washers, fasten flange opposite hanging bracket to structure. Safety screws should similarly be installed passing through the hanging bracket and flange. Make sure the screws, which you must supply, are properly selected for the loads and substrate involved, 2" x #10 pan head screws are recommended.



SUSPENDING THE ERV UNITS FROM FLOOR JOISTS OR TRUSSES

The unit may be screwed directly to joists or trusses using the hanging bracket and integral flange. Mount as described for mounting to concrete foundation wall.

6. INSTALLATION GUIDELINES

6.1 GENERAL GUIDELINES

ERV units are supplied with a set of 4 duct connectors that must be field-installed. The connectors can be used for either 6" round or 8" round ducts. It is preferable to keep duct runs short and straight to maximize performance.

For all installations, SMACNA guidelines for duct installation should be followed. The most commonly-used ducting is 6" diameter flexible due to ease of installation, sound attenuation, and cost, however, rigid ducting is preferred because there is less resistance to airflow, resulting in less power consumption to deliver the same amount of air.

A total of four duct runs will generally be used:

- One duct will provide clean outdoor air (Outside Air) to the ERV unit. This duct will normally be capped by an air inlet cap mounted on the exterior side wall of a residence and equipped with a bird screen.

Wall intakes must be located at least 10' from any appliance vent or any vent opening from a plumbing drainage system. Wall intakes must also be 10' from any exhaust fan discharge outlet unless that outlet is 3' or more above the intake location. (IRC 2006, Section M1602.2)

- One duct will be needed to exhaust stale air (Exhaust Air) to the outdoors. This duct will normally end at an exhaust cap located on an exterior wall of a residence.
- One duct will be needed to deliver fresh, conditioned air (Supply Air) from the ERV unit to a desired location in the residence. The Supply Air duct may end in a floor or wall grate with an area of at least 28 square inches. Alternatively, the Supply Air duct may be connected directly into the return air duct or the supply air duct for the main heating and cooling system. When connecting to the main return air duct, it must be at least 3' from the return plenum to minimize suction from the furnace blower.
- One duct is used to collect indoor air (Return Air), running from return grilles through the energy exchange core in the ERV unit before being exhausted to the outdoors.

If the ERV unit is located in a conditioned space, only the OA and EA ducts need to be insulated.

If it is installed in an unconditioned space such as an attic or crawl space, the SA, OA, RA, and EA ducts must be insulated.

7. APPROVED INSTALLATIONS

Legend

RA - Room Air

OA - Outside Air

FA - Fresh Air

EA - Exhaust Air

SA -Supply Air

NOTE: Ducts inside a building that are connected to the outside must be insulated with a sealed vapor barrier on both the inside and the outside of the insulation.

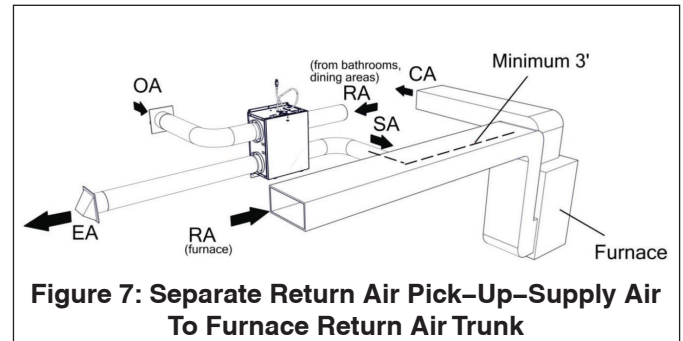


Figure 7: Separate Return Air Pick-Up-Supply Air To Furnace Return Air Trunk

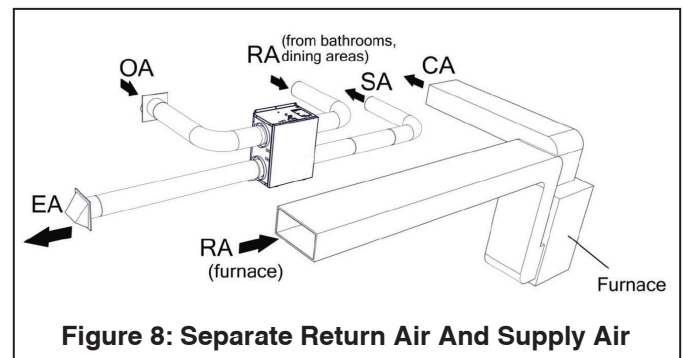


Figure 8: Separate Return Air And Supply Air

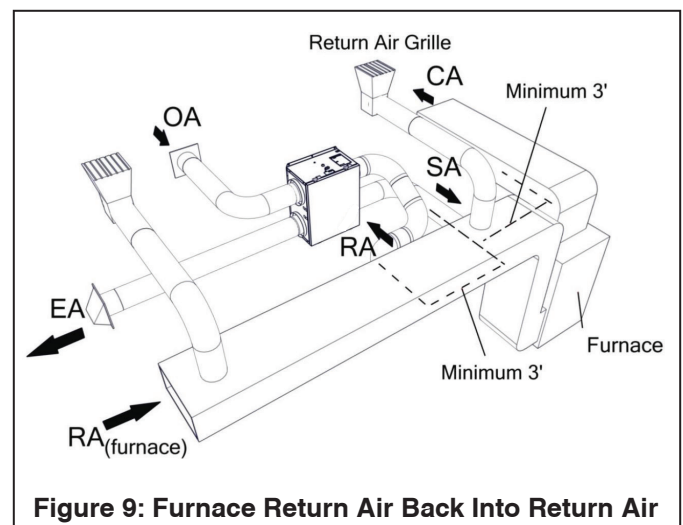


Figure 9: Furnace Return Air Back Into Return Air

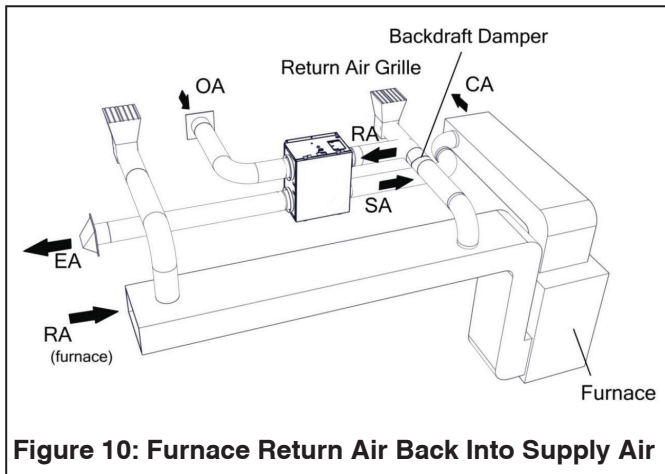


Figure 10: Furnace Return Air Back Into Supply Air

NOTE: ERV blower may be operated independently from furnace blower. Use caution to introduce FA at low velocity and where good mixing will occur.

NOTE: For the setup in Figure 9, 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.

7.1 AC Power Source

7.1.1 ERV unit

Power requirements: 120VAC, 3.0 amps

The ERV unit has an integral 34" long power supply cord. The installer must provide a standard, grounded 120VAC outlet in the proximity of the ERV. Check all local codes.

7.2 Load Bearing Capacity of Supports

The ERV unit is to be installed by attachment to building structural members such as joists, bar joists, beams, wall studs, and columns. It is not to be supported by attachment to fixtures such as ductwork or air handlers unless the fixtures are permanently installed and capable of providing adequate support. Whenever an ERV is installed on or supported by a fixture, the installation must be approved by a design engineer.

8. DUCTWORK INSTALLATION AND AIRFLOW

⚠ CAUTION

RISK OF INJURY FROM FALLING OBJECTS

Installation of this unit requires hoisting hardware overhead and working directly beneath heavy objects during the installation process. Observe all OSHA-approved work practices. Always wear OSHA-approved Personal Protective Equipment (PPE)

8.1 Attaching Ducts

Ducts are to be fabricated and installed per SMACNA guidelines. Use a combination of zip ties, UL-181-rated duct mastic and then secure the duct from slipping off by means of a screw, positioned behind one or more ribs in the duct. Observe Industry Best Practices when installing and supporting the ducts.

8.2 Selecting Airflow Settings

The need for boost mode varies by situation. For example, boost mode could be tied to bathroom and shower usage. Alternatively, boost mode might be set for specific times of the day when more people will be in the space being ventilated. In all cases, an HVAC professional should be consulted to determine how to best set the airflow volumes to provide maximum benefit to the inhabitants.

Airflow volumes are set by taking pressure readings at the pressure ports in the unit door and then adjusting the potentiometers, first the two low speed ones, then the two high speed ones. Normally, the low-speed OA and RA potentiometers are set and then the readings are compared to the chart in section 9.2.1 of this manual. Measuring the pressure drop across the core for each airstream is used to determine the airflow volume.

NOTE: Airflow volumes can be changed at any time by the user as experience dictates. Whenever changing airflow volumes for either Continuous (low speed) or Boost (high speed) modes, the fans should again be balanced.

8.3 Balancing Airflows

ERV unit provide the ability to deliver and exhaust completely balanced airflows, or to modify them as desired. While balanced airflow is preferred, many owners will prefer to have a slight imbalance, providing a slight excess of Outdoor Air to reduce air infiltration into a home. Some homes may require an imbalance because a furnace or water heater is not direct-vented. Again, an HVAC professional will be able to advise balance settings that will best address the circumstances in each home.

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Balancing an airflow is done by setting the Outdoor Air fan speed and then adjusting the Return Air fan speed to eject the same or somewhat less air to the outdoors.

Equipment required for testing airflows:

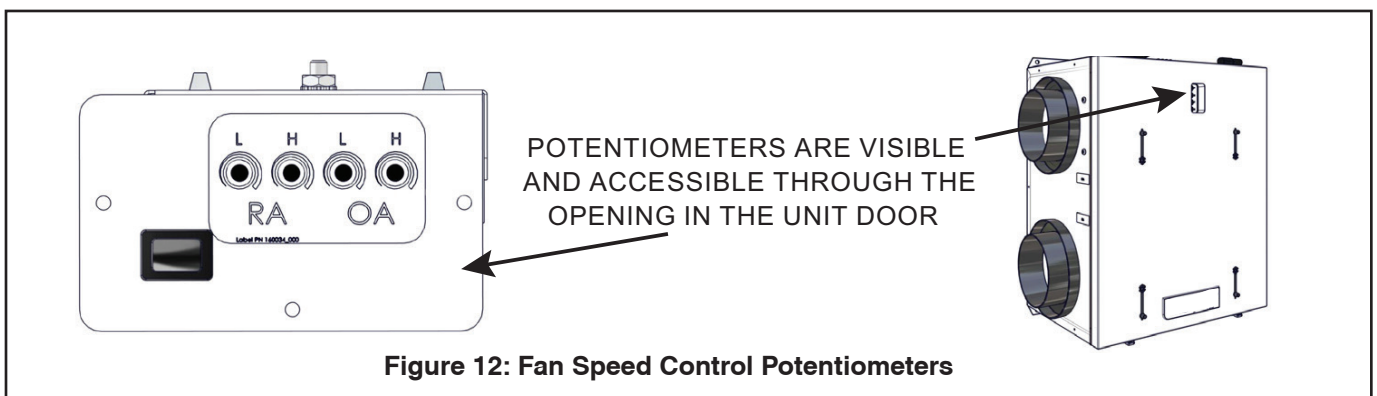
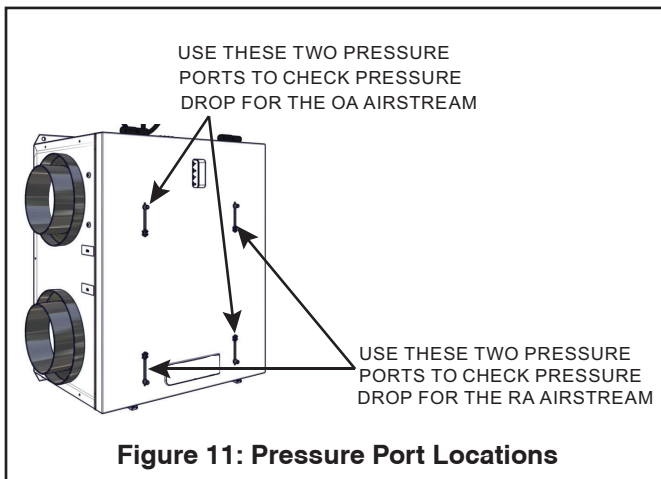
- A magnehelic gauge (or manometer) or other device capable of measuring 0–1.0 inches water column of differential pressure.
- 2 pieces of natural rubber latex tubing, 1/8" I.D., 1/16" wall thickness works best.

Manometers are relatively inexpensive devices that are readily available from online retailers; accuracy within the range of 0–1.0 in. w.c. is the critical measure. Water manometers generally have graduations of 0.1" that are difficult to accurately determine. For all manometers, there are two plastic tubes that connect at the manometer and then the other ends go to pressure ports on the ERV unit.

Individual differential static pressures (DP) are measured ACROSS the core and filters, using the installed pressure ports located on the removable door.

- Verify the unit has clean filters in place.
- Open the pressure port caps for the OA airstream and then insert the tubing into the openings about 1".
- Take a differential pressure reading for the OA airstream by installing the "high" pressure side (+) of the measuring device to the OA port and the "low" pressure side (-) to the SA port. Compare the pressure drop to the chart in section 9.3 to obtain the CFM. Adjust the fan speed potentiometer (See Figure 12) to obtain the desired CFM. Enter the CFM information in the box in section 9.3.
- Install a jumper on the low-voltage terminal to force the unit into Boost (high speed) mode. See the Wiring Diagram in section 10.
- Repeat the process for both airstreams to set both the CFM and balance. Enter the information in the boxes in section 9.1.
- After adjusting the potentiometers, take additional readings as needed to verify that fan speed settings are correct. See section 9.4.

NOTE: Adjust low speed fan settings by using the potentiometers marked "L." Adjust high speed fan settings by using the potentiometers marked with "H."



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9. OPERATION

9.1 Manometer Readings At Commissioning

Return Air Pressure Port	In. w.c.:	<input type="text"/>	Pressure Drop:	<input type="text"/>
Exhaust Air Pressure Port	In. w.c.:	<input type="text"/>		
Outside Air Pressure Port	In. w.c.:	<input type="text"/>	Pressure Drop:	<input type="text"/>
Supply Air Pressure Port	In. w.c.:	<input type="text"/>		

9.2 Airflow Readings At Commissioning

9.2.1 Conversion of Pressure Drop to Airflow

See the tables below.

(Units equipped with clean MERV 8 filters.)

To determine the airflow in CFM, obtain the manometer readings shown above and calculate the differences between them. Then apply the following formula to convert the readings to CFM:

EERVE125: [Airflow in CFM] = 183 x [Pressure Drop in inches w.c.]

EERVE225: [Airflow in CFM] = 283 x [Pressure Drop in inches w.c.]

EERVE280: [Airflow in CFM] = 593 x [Pressure Drop in inches w.c.]

EXAMPLE: 1 In. w.c. of pressure drop corresponds to 283 CFM, 0.5 In. w.c. corresponds to 141.5 CFM, and so on for the ERV unit M.

(Units equipped with a MERV 13 filter in the OA airstream. Formulas below are for OA airstream only.)

EERVE125: [Airflow in CFM] = 154 x [Core Pressure Drop in inches w.c.]

EERVE225: [Airflow in CFM] = 235 x [Core Pressure Drop in inches w.c.]

EERVE280: [Airflow in CFM] = 487 x [Core Pressure Drop in inches w.c.]

EXAMPLE: 1 In. w.c. of pressure drop across the core corresponds to 235 CFM, 0.5 In. w.c. corresponds to 117.5 CFM, and so on for the EERVE225.

9.2.2 Pressure Drop to Airflow Conversions

EERVE125		
Pressure Drop (In. W.C.)	Airflow with MERV 8 Filters (CFM)	Airflow with MERV 13 Filters (CFM)
0.1	18	15
0.2	37	31
0.3	55	46
0.4	73	62
0.5	92	77
0.6	110	92
0.7	128	108

EERVE280		
Pressure Drop (In. W.C.)	Airflow with MERV 8 Filters (CFM)	Airflow with MERV 13 Filters (CFM)
0.1	59	49
0.2	119	97
0.3	178	146
0.4	237	195

EERVE225		
Pressure Drop (In. W.C.)	Airflow with MERV 8 Filters (CFM)	Airflow with MERV 13 Filters (CFM)
0.1	28	24
0.2	57	47
0.3	85	71
0.4	113	94
0.5	142	118
0.6	170	141
0.7	198	165

9.2.3 Continuous Mode (low speed)

Outdoor Airflow: CFM

Return Airflow: CFM

9.2.4 Boost Mode (High Speed)

Outdoor Airflow: CFM

Return Airflow: CFM

10. ELECTRICAL CONTROLS

10.1 Low-Voltage Wiring Diagrams

- Single Speed Mode CONTINUOUS.
- When plugged in, the unit will run constantly at Low Speed. If the unit is to operate constantly at a single airflow, adjust the OA and RA low speed potentiometers to the desired airflow as described in section 8.3. The high speed potentiometers are not needed for this application.

10.2 Low Speed CONTINUOUS/High Speed SWITCHED

If the ERV unit is to run constantly at Low Speed (Continuous mode or Off) and then switch periodically to Boost mode in response to a controlling device. The external controlling device, such as a Push Button Boost Timer (PBT) control or an occupancy sensor that is to trigger Boost mode (High Speed), is connected to the 24VAC terminal and to the High Speed terminal.

NOTE: Do not connect either wire from PBT to the COM terminal on the unit.

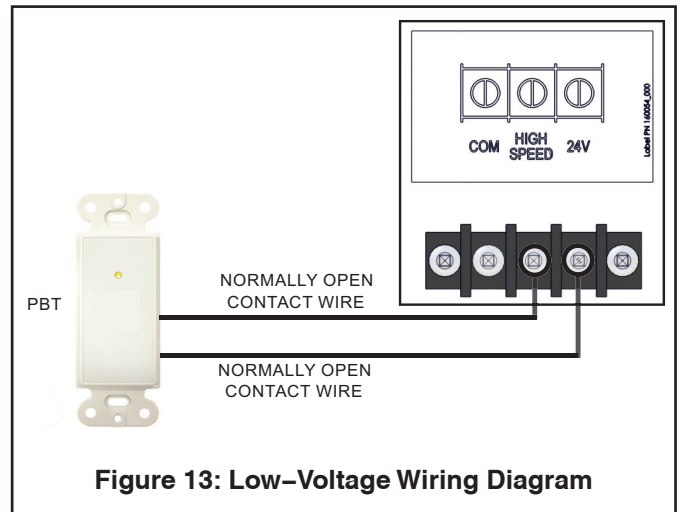
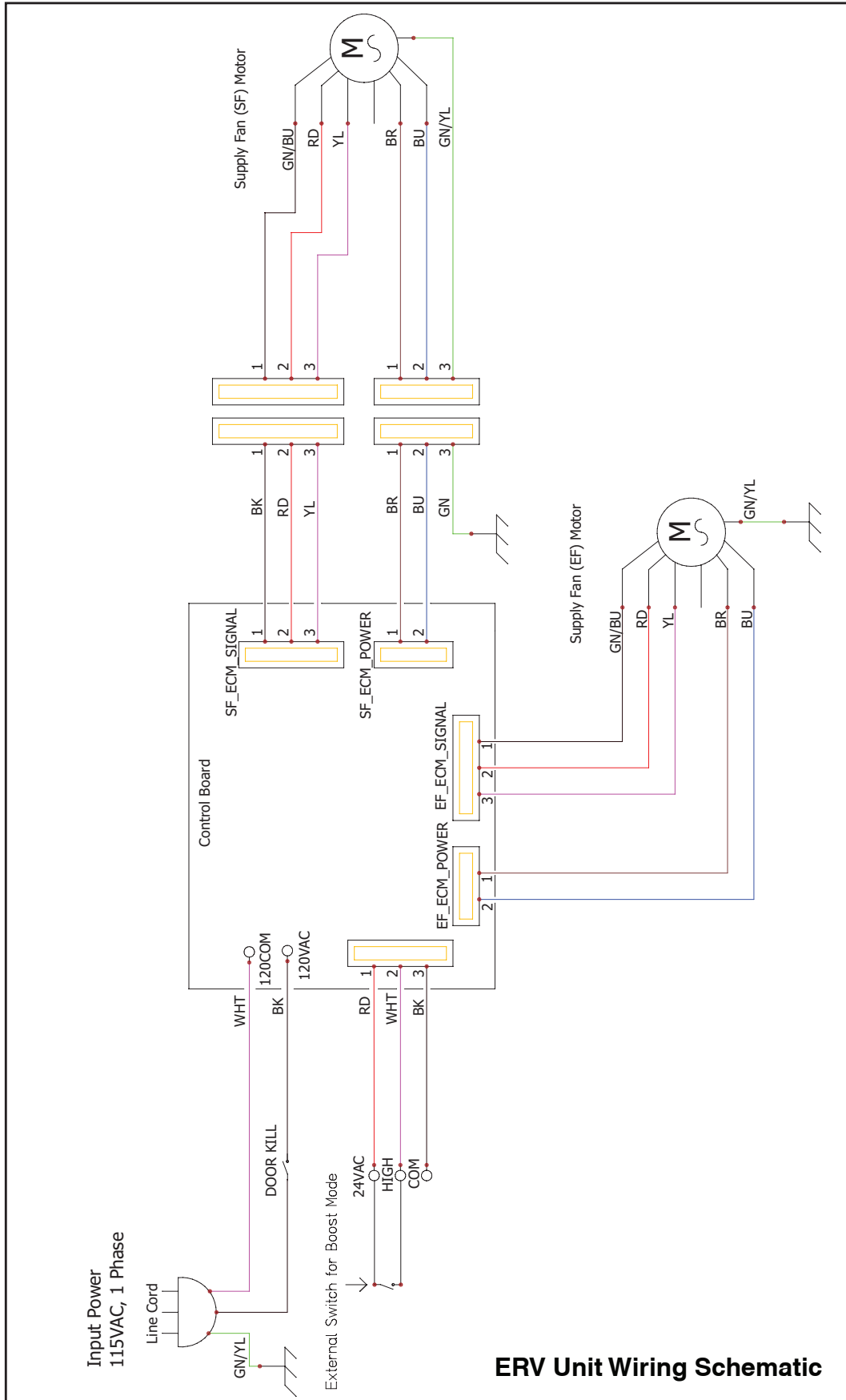


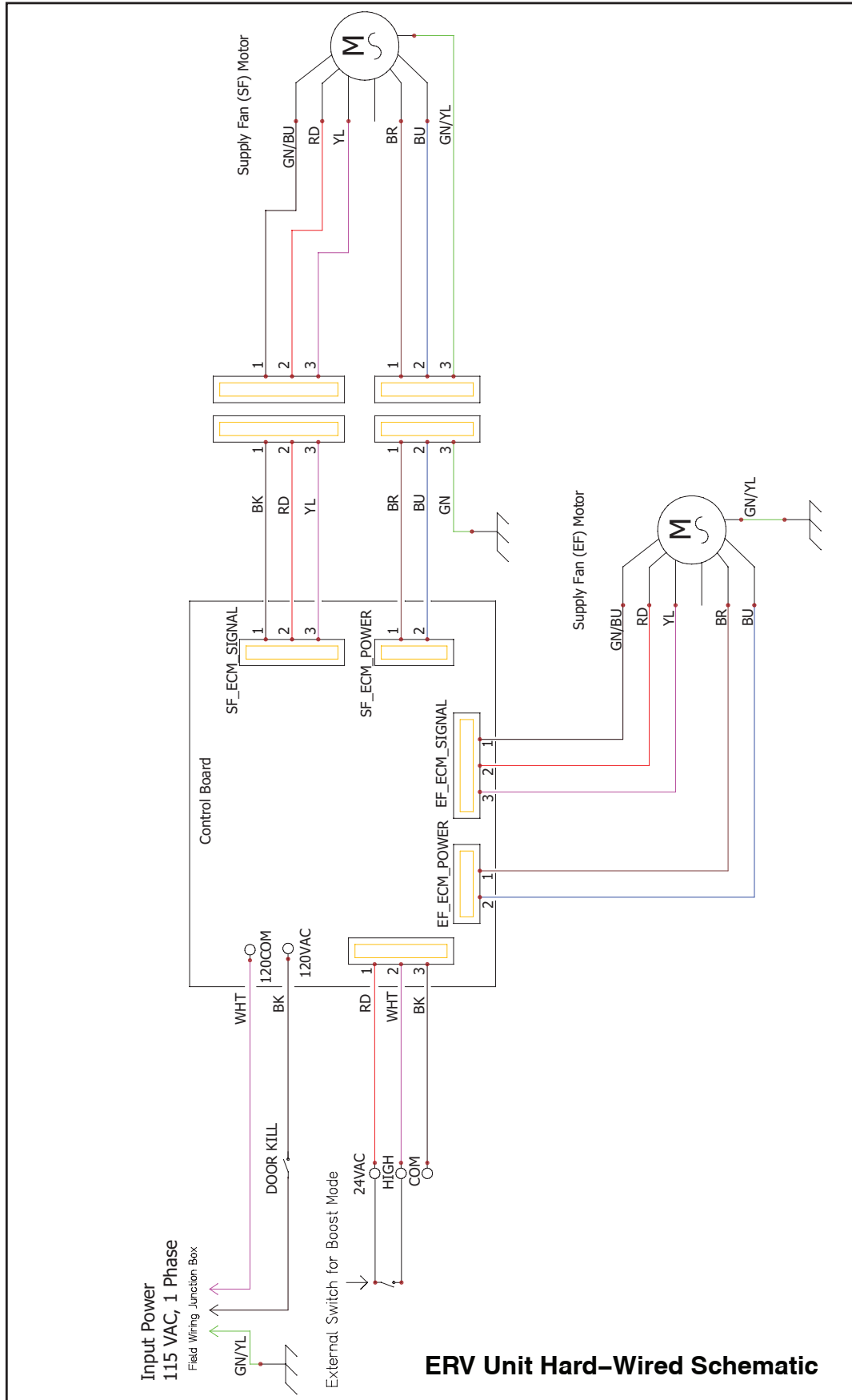
Figure 13: Low-Voltage Wiring Diagram

If multiple controls are desired to operate the unit in Boost mode for different purposes, they may be wired in parallel. The unit control board provides 6 VA so the combined power demand for desired accessories must be lower than this threshold. For example, a PBT controller may be wired to an ERV unit and up to 6 Push Button Point of Use Control (PBL) controls may be connected to the PBT PB terminals in parallel. For additional information see the installation manuals for the control(s) you select for wiring diagrams and specific instructions.

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11. WIRING DIAGRAMS





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12. OPTIONAL ACCESSORIES

Part Number	Description	Associated Product
FLR09990	FILTER; MERV 13, 3 pack	EERVE125A1P00A
FLR09991	FILTER; MERV 13, 3 pack	EERVE225A1P00A
FLR09992	FILTER; MERV 13, 3 pack	EERVE280A1P00A
CNT10174	CONTROL; percentage timer ERV	EERVE125A1P00A, EERVE225A1P00A, EERVE280A1P00A
CNT10175	CONTROL; point of use push button ERV	EERVE125A1P00A, EERVE225A1P00A, EERVE280A1P00A
CNT10176	CONTROL; 20/40/60 minutes push button timer ERV	EERVE125A1P00A, EERVE225A1P00A, EERVE280A1P00A
FLR09989	FILTER; MERV 8, 3 pack	EERVE125A1P00A, EERVE225A1P00A, EERVE280A1P00A

NOTES

About Trane and American Standard Heating and Air Conditioning
Trane and American Standard create comfortable, energy efficient indoor environments for residential applications.
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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.