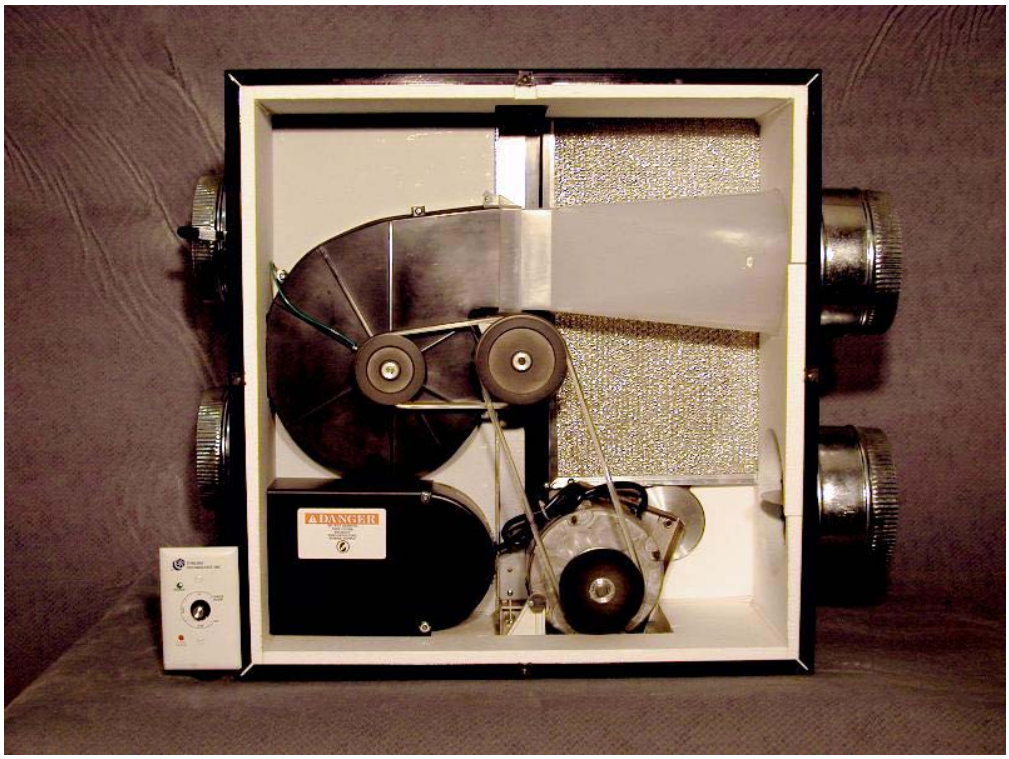
# *RecoupAerator®* SD-95+

## Energy Recovery Ventilator
## Owner's Manual and Installation Guide




**Stirling Technology, Inc.**
**178 Mill Street**
**Athens, Ohio 45701**
**www.healthyairpeople.com**
**1-800-535-3448**

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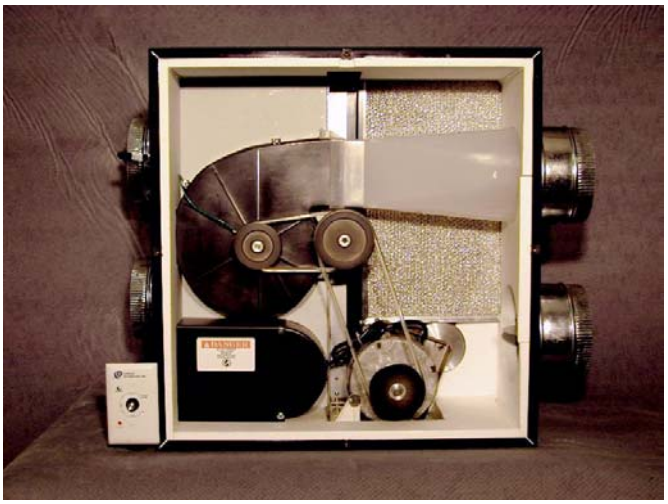
# *RecoupAerator®* SD-95+

## Section 1: Owner's Manual

## Introduction:

Your ***RecoupAerator®*** is designed to bring fresh air in to the home while simultaneously exhausting stale air. The heat (or coolness) of the air being exhausted is transferred to the fresh air coming in to the home. The ***RecoupAerator®*** is specifically designed to provide good indoor air quality in a home or office while maintaining the comfort of the occupants.

This unit is an energy recovery ventilator, which means that it recovers about 96% of the heat as well as about 30-40% of the indoor moisture. As you read the specifications on the following page, you will get a more complete picture of what the ***RecoupAerator®*** does, and how it performs.



## Features:

- 96% plus efficient
- 95% effective filtration to 5 microns
- Extremely quiet operation
- Environmentally sound
- Low/Easy maintenance
- Low cost
- Exceeds ASHRAE 62.2
- No drain required
- Permanently lubricated fan & wheel bearings
- Fully insulated
- No desiccant required

# Specifications:

**Model:** ***RecoupAerator***® SD-95+ Energy Recovery Ventilator. Includes patented Rotary Heat Exchange Core, filters, fans, and drive motor. Pre-heaters are optionally available.

**Air Flow Capacity:** 197 cfm

**Sensible Thermal Efficiency:** 96% at full flow

**Heat Exchange Type:** Patented Rotary Random Matrix Polymer

**Filtration:** Washable Heat Exchange matrix 95% effective at 5 microns with washable expanded aluminum pre-filter.

**Motor Type:** General Electric 1/3 hp programmable brushless motor

**Electrical Ratings:** 120/240 Vac, 60 Hz., 5.0/2.8 Amps

**Dimensions:** 42 cm D x 56 cm W x 58 cm H (16.8" x 22.5" x 23.4")

**Unit Weight:** 30 kg (70 lbs.)

**Shipping Weight:** 36.3 (80 lbs.)

**Mounting:** May be mounted vertically or horizontally suspended from floor joists, or placed on floor in conditioned spaces, such as attics, basements, and utility rooms. Collars are 6".

**Maintenance:** Clean filters once every 6 months, and clean or replace if necessary.

**Certifications:** ETL Testing Labs to ANSI/UL-1995 / CAN/CSA C22.2 No. 236 (heating and cooling equipment).

# General Information:

**Application:** The ***RecoupAerator***® Energy Recovery Ventilator is designed to supply fresh air and exhaust stale air while ventilating your home with conditioned and filtered outside air. The ***RecoupAerator***® draws fresh air from outdoors through the patented rotary heat exchange core for distribution throughout the home. Stale air is exhausted through the ***RecoupAerator***® and ducted to the outdoors after transferring heat and moisture to the incoming air stream.

**Controls:** Your ***RecoupAerator***® comes equipped with a variable speed control knob, boost function capability, "clean filter" indicator light, and furnace wiring terminals. This allows you to adjust the airflow as needed to maintain a comfortable level of fresh air into your home. The "clean filter" indicator light is designed to notify you when your pre-filters and heat exchange material need to be cleaned. For systems where constant ventilation is not required, a remote on/off switch, timer, and/or furnace inputs can be wired directly to the controller.

**Frost Control**: A pre-heater **(SH-1000)** is recommended for colder climates in which the outdoor air temperature will fall below $10^{o}$ F for extended periods of time (24-48 hours). Each pre-heater comes equipped with a thermostat to automatically activate and shut off pre-heater at pre-set temperatures. The pre-heater may additionally be wired to a remote on/off switch.

# Service & Maintenance

## Before Performing Maintenance

Before any service to your ***RecoupAerator***® is performed, be sure that the unit is switched off and **power has been disconnected** from the unit. Using the wall mounted variable controller and/or the external on/off switch on the unit does not terminate main power to the unit. You must disconnect power by either unplugging the unit or by switching the applicable breaker in your breaker box to **off**. Otherwise, the main power to the unit will remain hot and could cause serious bodily injury.

## Maintenance List

- ☐ Pre filter (clean every 3-4 months if continuously operated, or every 6 months otherwise)
- ☐ Heat transfer core (check and if necessary clean every 3-6 months)
- ☐ Belt drive (check belts for excessive wear yearly)
- ☐ Weather caps (check for obstructions regularly)
- ☐ General Cleaning (light vacuuming recommended yearly)

## Aluminum Pre-filters

The aluminum pre-filters should be cleaned at least once every six months. Clean more frequently if necessary. To clean the filters:

1. Unscrew the filter door thumbscrews and remove the filter doors.
2. Slide the aluminum pre-filters out, being careful not to bend the frames.
3. Check the filter for build-up and replace it if clogged. If it is soiled but not clogged, you should be able to clean it by soaking it in warm soapy water. Dry pre-filter completely before reinserting it in your ***RecoupAerator***®.
4. Replace the filter.
5. Replace the filter door and tighten thumbscrews.

To order a replacement filter set, call for current prices:

1-800-535-3448

Stirling Technology, Inc.
P.O. Box 2633
Athens OH, 45701

## Heat Transfer Core

The ***RecoupAerator***®'s patented Heat Exchange Wheel contains a removable core filtration material (see photo below) that may require washing.

**To check the core material:**

1. Disconnect power to the ***RecoupAerator***®.
2. Open the non-motor side access door (the side labeled "**To clean heat exchange material, REMOVE THIS COVER**.").
3. Remove the aluminum pre-filter as explained in the Aluminum Pre Filter Service Section.
4. If the heat exchange material is a medium gray or darker it is probably in need of cleaning. Pull out the exposed filter material wedges by the plastic monofilament handle embedded in each section, manually rotating the wheel to access the remaining wedges.
5. Wash the filter material wedges by hand or in the washing machine (gentle cycle) using a mild detergent.
6. Air dry the pieces completely before reinserting them in the unit with the handle facing out for easy access in the future.
7. Rotate the wheel by hand making sure that the pieces are completely and evenly replaced so that none drags on the center frame as the wheel rotates.
8. Replace the aluminum pre-filter and tighten the filter door.
9. Replace the side access door and tighten the quarter turn latches.
10. Restore power to the unit.

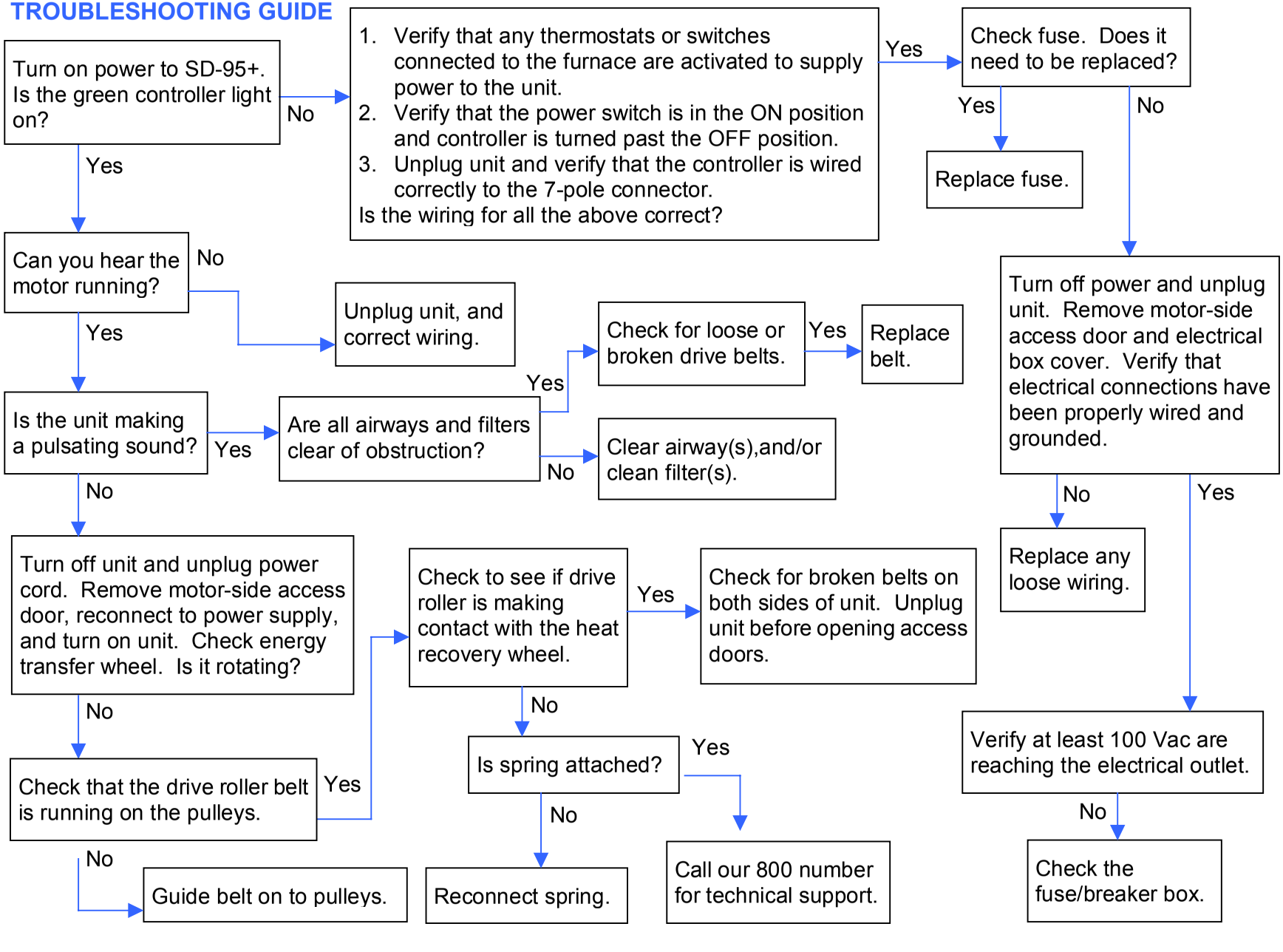
## Belt Drive

If the motor is operating but either the heat exchange wheel does not turn or the blowers are not displacing air, check the pulley system for loose, worn or broken belts. Replace as needed.

## Weather Caps

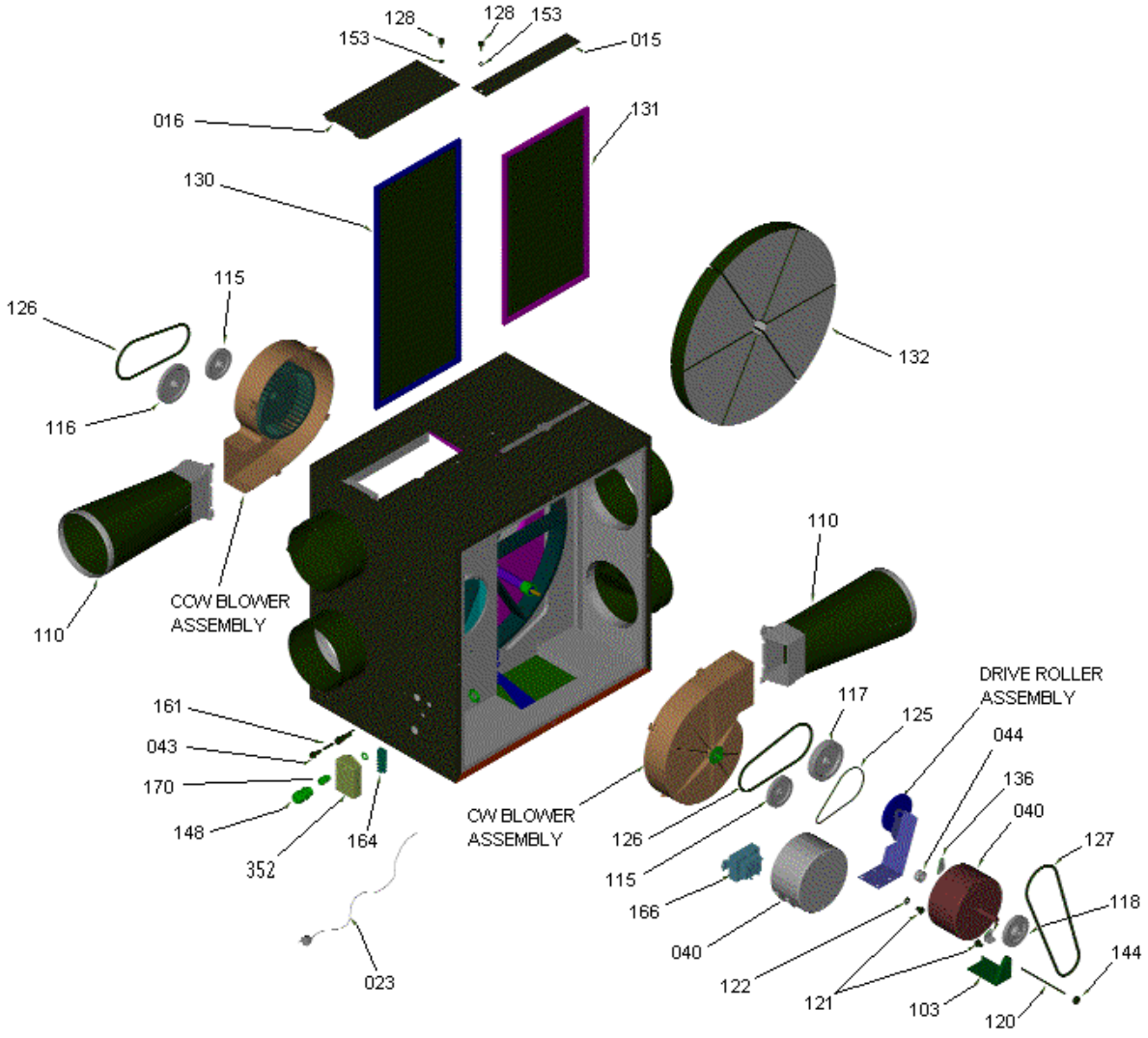
Check periodically throughout the year to ensure that the fresh air inlet and stale air exhaust outlet duct ends do not become clogged with debris such as leaves, grass, snow, or bird nests.

## TROUBLESHOOTING GUIDE



# PARTS DIAGRAM FOR THE 95+ ENERGY RECOVERY VENTILATOR

(Use when ordering replacement parts)



## REPLACEMENT PARTS LIST

015 - Small Filter Access Door
016 - Large Filter Access Door
023 - Power Cord
040 - Motor and Controller Can
043 - Fuse Holder and Cap
044 - Small Motor Pulley
103 - Motor Mount
110 - Blower Cone
115 - Blower Pulley
116 - Center Pulley (Single Groove)
117 - Center Pulley (Double Groove)
118 - Large Motor Pulley
120 - Fixed Motor Pin
121 - Motor Mount Grommet
122 - Motor Spacer
125 - Drive Roller Belt
126 - Blower Belt
127 - Center Shaft Belt
128 - Filter Door Knob (Threaded)
130, 131 - Aluminum Pre-filter Set
132 - Heat Recovery Material (Set of 6)
136 - Spring Mount
144 - Motor Pin Cap
148 - Strain Relief (Power Cord)
153 - Nylon Retaining Washer
161 - Fuse
164 - 7 Pole Connector (Terminal Strip)
166 - Transformer
170 - Strain Relief (Controller)
352 - Electric Box (Covers 7 Pole Connector)
Drive Roller Assembly (No Part Number)
CW and CCW Blower Assemblies
Controller – Wall Mounted (On/Off or Continuous)

**If you need to order parts or have a question about parts ordering, call:**

**1-800-535-3448**

## MOUNTING KITS

CM-02 – Ceiling Mount Kit
WM-04 – Wall Mounting Bracket

## TERMINATION KITS

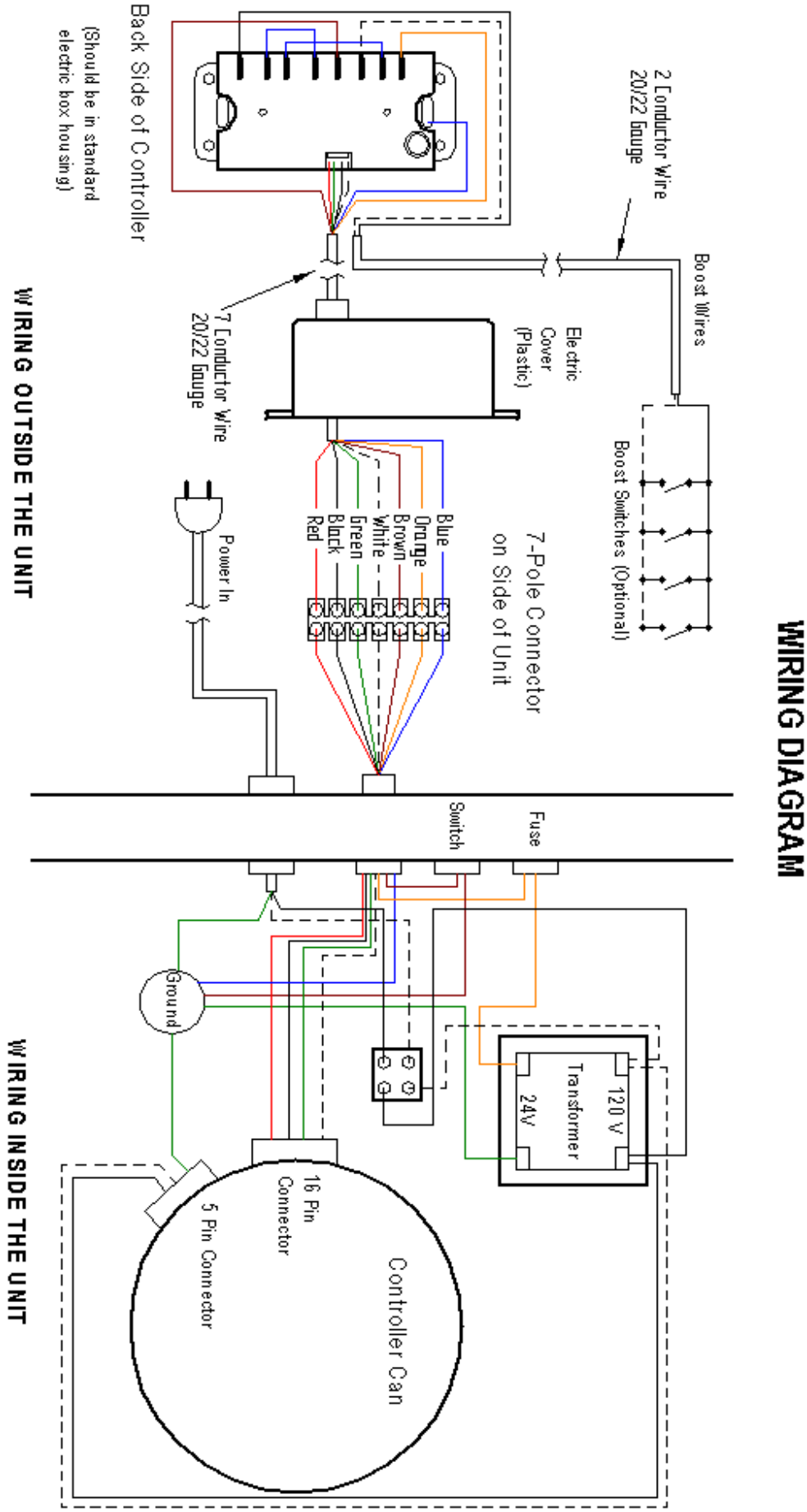
WT-06 – Wall Termination Kit (for 6 inch duct)
WT-07 – Wall Termination Kit (for 7 inch duct)
WT-08 – Wall Termination Kit (for 8 inch duct)
WT-10 – Wall Termination Kit (for 10 inch duct)
*Note: Wall Termination Kits can be custom made to any standard size.*

## OPTIONAL DEVICES

SH-1000 – Pre-heater (Two different versions, for 95+ and 190 units)
Manometer – inclined vertical manometer – for balancing unit
A-612 – Portable stand for manometer
PR-101 – Low voltage relay
FR-102 – High voltage relay
Wound Timer – Can be set to boost the airflow up to maximum for a set period of time.
Digital Timer – Can be set to boost the airflow up to maximum for a set period of time.
Dehumidistat – Can be used to adjust humidity by boosting the airflow up to maximum speed when a preset humidity level is exceeded.
Digital Wall Switch Timer– Programmable timer allows the ***RecoupAerator***® to be turned off and on, or boosted to maximum speed, at user specified times.

**If you need to order parts or have a question about parts ordering, call:**

**1-800-535-3448**


WIRING DIAGRAM
WIRING OUTSIDE THE UNIT
WIRING INSIDE THE UNIT
Back Side of Controller
(Should be in standard electric box housing)
2 Conductor Wire 20/22 Gauge
7 Conductor Wire 20/22 Gauge
Boost Wires
Boost Switches (Optional)
Electric Cover (Plastic)
7-Pole Connector on Side of Unit
Blue
Orange
Brown
White
Green
Black
Red
Power In
Switch
Fuse
Ground
120 V
Transformer
24V
16 Pin Connector
5 Pin Connector
Controller Can

# *RecoupAerator®* SD-95+

## Section 2: Installation Guide

### Instructions for Licensed Contractors

## Installation:

**Note: It is recommended that a licensed HVAC Technician install this product. There are numerous considerations that must be taken in to account when installing a ventilation system, including airflow dynamics and condensation issues. As a minimum level of preparation, obtain a manual on Residential Ventilation Installation prior to installation by non-licensed individuals. Installation by non-licensed HVAC personnel may invalidate the warranty.**

Unpack your ***RecoupAerator®*** and check to make sure that the following are included and undamaged:

- **SD-95+** Energy Recovery Ventilator with starting collars.
- Literature package with maintenance guide, parts list, and warranty.
- Mounting hardware. (optional)
- **SH-1000** pre-heater. (if required)
- Wall Mount Controller

**When installing the *RecoupAerator®* :**

1. Read these instructions carefully before beginning any installation procedure. Failure to follow them closely may reduce ventilation effectiveness or cause a hazardous condition.
2. Review your plan for the installation, with the ***RecoupAerator®*** sitting out of the box in front of you. Familiarize yourself with the intake and outlet duct configuration, installation dimensions, and plan which direction you will orient the unit.
3. After installation is complete, test the operation of this product according to the instructions. Fill in contractor's name and phone number on the last page of this manual.

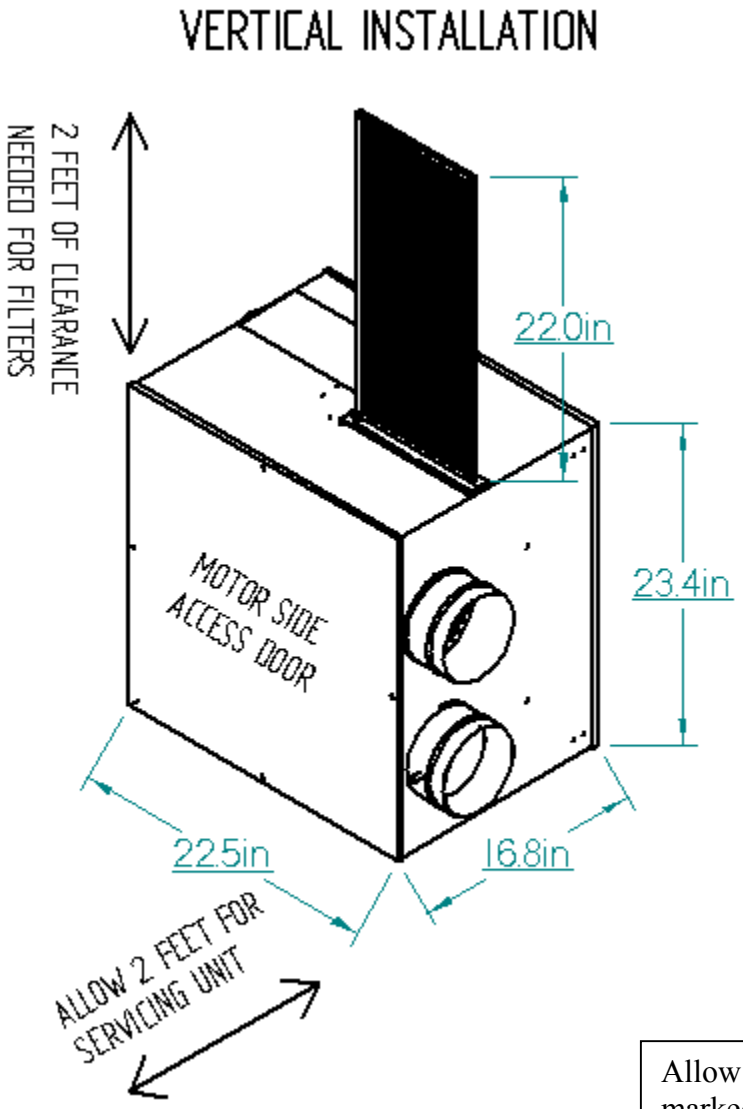
**CAUTION**

**Disconnect power supply before wiring to prevent electrical shock or equipment damage.**

**The *RecoupAerator®* is equipped with a three-prong grounding plug for your protection against shock hazards and should be plugged directly into a PROPERLY GROUNDED THREE-PRONG WALL RECEPTACLE. Where only a two-prong outlet is available, IT MUST BE REPLACED WITH A PROPERLY GROUNDED THREE-PRONG RECEPTACLE in accordance with the National Electrical Code and local codes and ordinances. This work should be done by a qualified electrician.**

**Use proper circuit protection. If you have any doubts about the grounding in your house, contact a qualified electrician.**

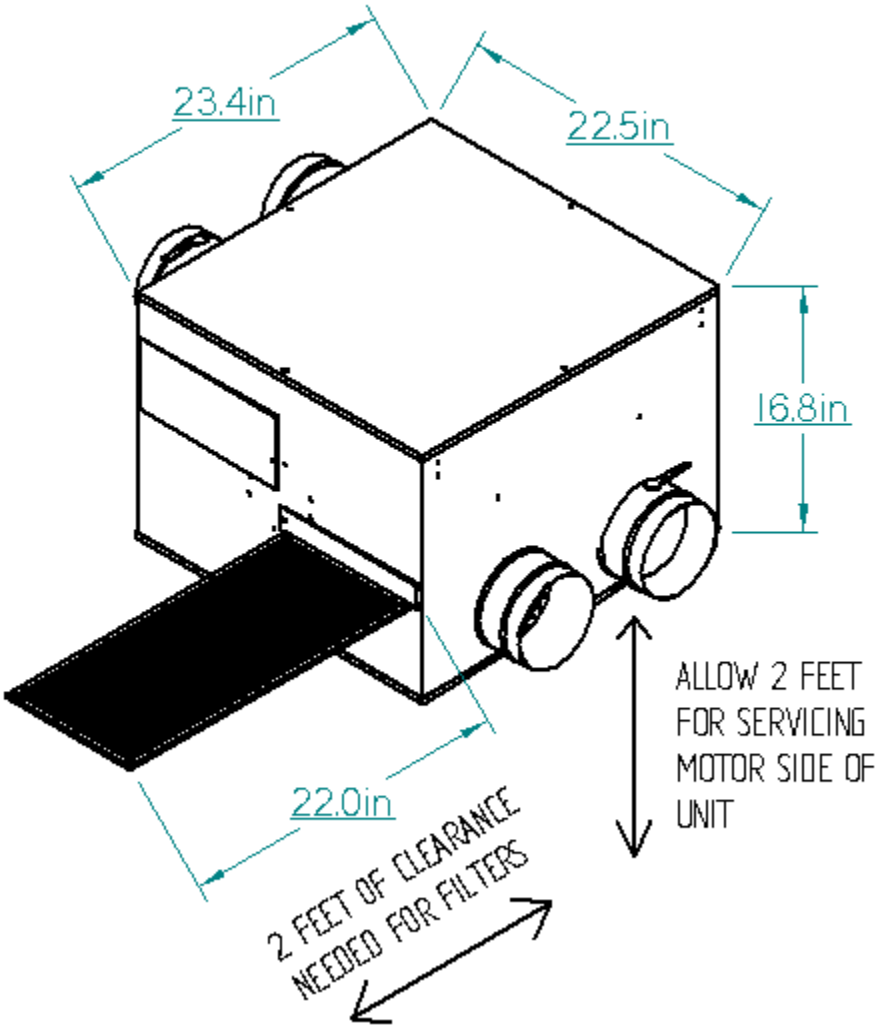
# Installation Dimensions:




Allow clearance in marked areas for access to the unit for regular maintenance and servicing.

Also, you must leave room on both ends (with collars) to connect ductwork to the unit.

# HORIZONTAL INSTALLATION




Allow clearance in marked areas for access to the unit for regular maintenance and servicing.

Also, you must leave room on both ends (with collars) to connect ductwork to the unit.

# Installation Options

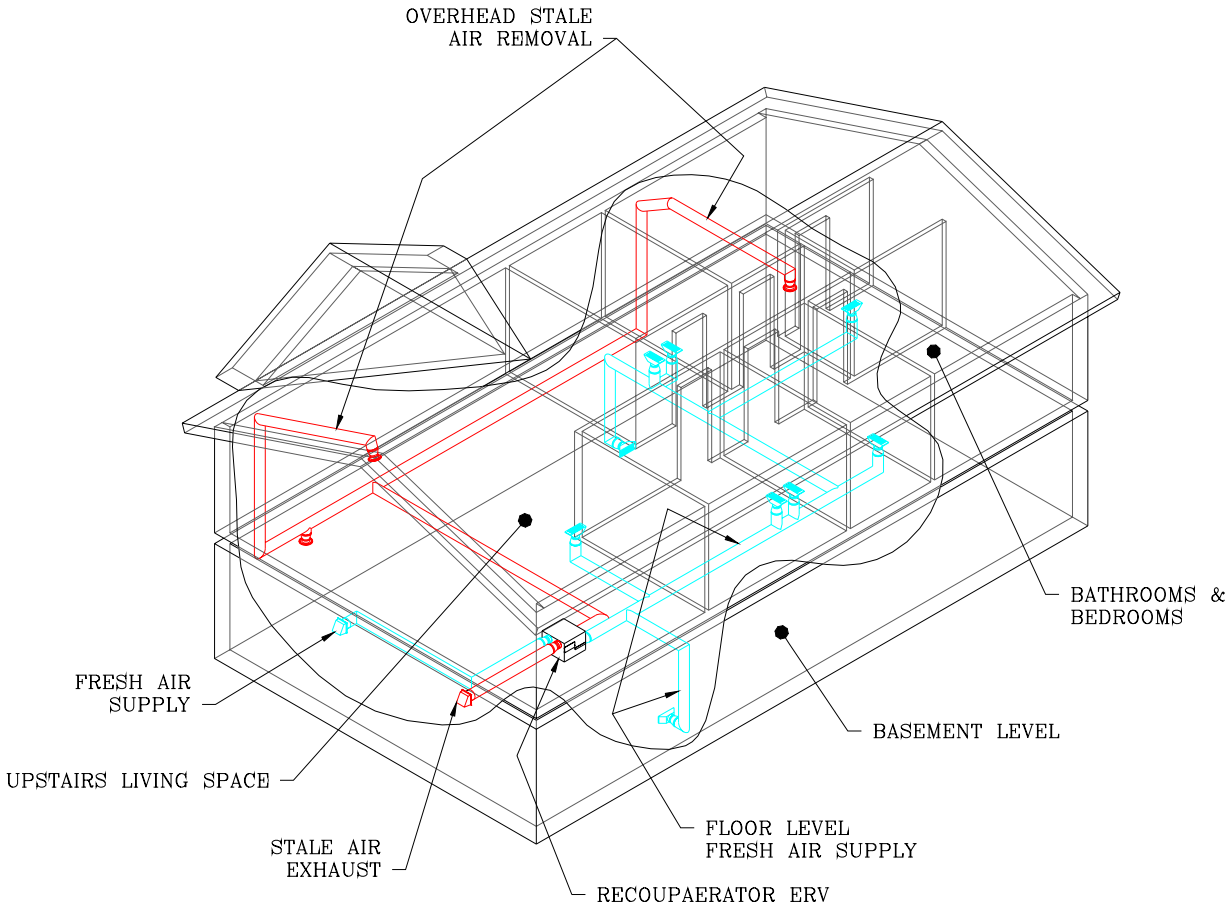
There are three basic ways to install the inside ducts (❸&❹) for the ***RecoupAerator***®.

## Option 1: Dedicated Ductwork

This is the most complete installation option and is ideal for new construction. It should be used when the customer has a specific problem associated with indoor air quality. It is also the only option for homes without forced air heating systems.

The more rooms to which ductwork is run, the more effective the system. Dedicated duct-work is installed for the exhaust intake and the fresh air delivery. The kitchen, laundry room, or other areas with high contamination should contain registers for the exhaust intakes. Areas such as the living room, den, and bedrooms should receive the full benefit of the fresh air being brought in. See illustration below for sample dedicated ductwork layout.

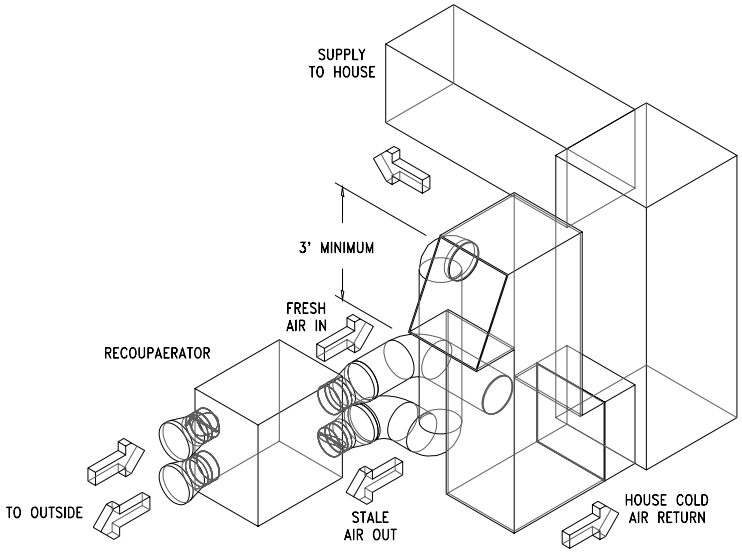
Depending on the layout of the building in which the ***RecoupAerator***® will be installed and the amount of time and effort the installer wishes to spend, a simpler but somewhat less effective version of this system could be used which would utilize just one exhaust and one or more delivery registers located strategically to encourage circulation throughout the house.



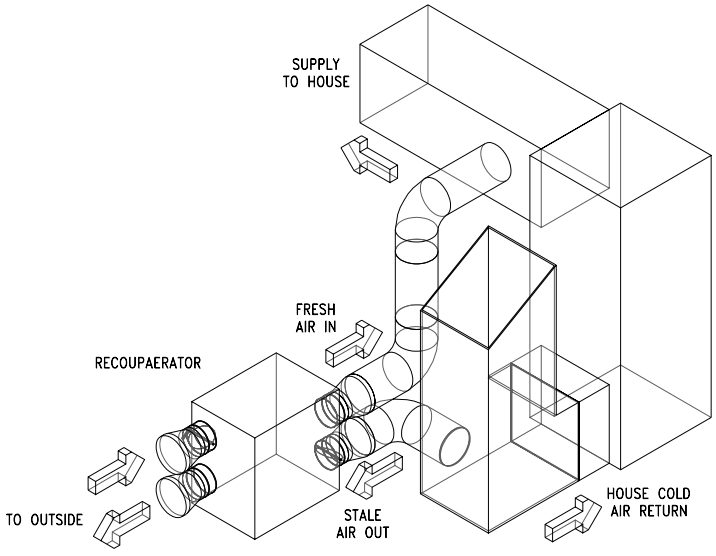

DEDICATED DUCTWORK FOR THE 95+

# Option 2: Shared Ductwork

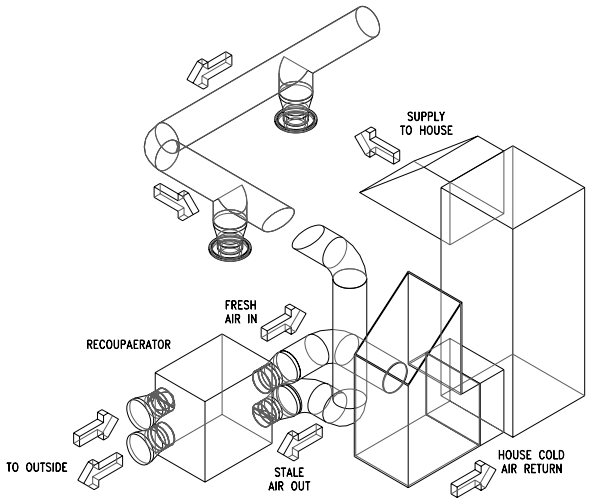
**Method 1.** This method utilizes the existing home HVAC duct system completely. Both the stale air removal and the fresh air in ducts from your ***RecoupAerator***® will be attached to the cold air return duct of your HVAC system. Be sure to keep at least 3 feet of space along the cold air return line between the two ventilator lines (see diagram). We recommend that you keep both lines 3 to 6 feet away from the furnace. When this method is used, your ***RecoupAerator***® and your air handler must be wired to run simultaneously (interlocked).




**Method 2.** This method also utilizes the existing home HVAC duct system completely. The fresh air in duct from the ***RecoupAerator***® gets ducted into the main supply duct to the house. A minimum of 18" distance between this line and the furnace is recommended. The stale air out duct from the ***RecoupAerator***® gets ducted into the cold air return duct of the furnace. A 3 foot to 6 foot distance between this line and the furnace is recommended. For use of this method, it is recommended that your ***RecoupAerator***® and your air handler be wired to run simultaneously (interlocked).



**Method 3.** This method partially utilizes the existing home HVAC duct system. The fresh air in duct from the ***RecoupAerator***® gets ducted into the cold air return line of the furnace. A minimum of 3 to 6 foot distance between this line and the furnace is recommended. The stale air out duct from the ***RecoupAerator***® is ducted separately to strategically located points throughout the house where it is desirable to remove stale air from. This method allows for independent control between the air handle and the ***RecoupAerator***® (no interlock).

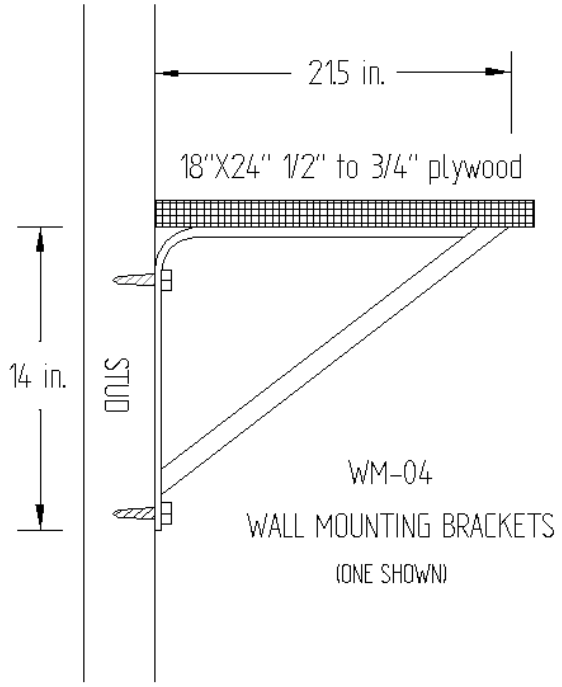



# Location and position of your *RecoupAerator*®

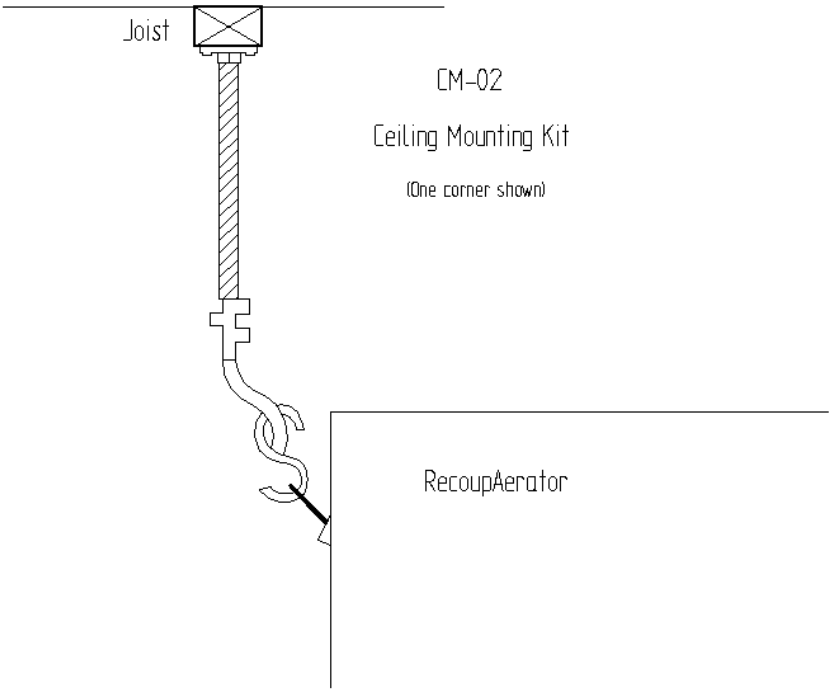
**Mounting Location:** Mount your ***RecoupAerator***® in a central location that will be convenient to existing ducting and furnace, if using existing ductwork. Do not install the ***RecoupAerator***® in an unheated space, as this will affect the performance of the motor. If possible, locate equipment away from the quiet rooms of the house. Avoid directly suspending the ***RecoupAerator***® from the mid-span area of joists. This can result in structural vibration. Allow adequate space for maintenance and service of the unit (use the guidelines outlined below).

**Mounting Positions:**

**Vertical:** The ***RecoupAerator***® rests on four rubber feet when mounted vertically. Set the unit on a flat, dry, level surface at least 18 in. by 24 in., which is able to support a minimum of 80 lbs. Wall Mounting Bracket Kit **(WM-04)** may be used to mount the ***RecoupAerator***® on a wall (SHOWN BELOW). Allow 24 in. above the unit for removal of the pre-filters. Position the cover marked "**To clean heat exchange material, remove THIS cover**" so that it may easily be removed for cleaning of the heat recovery material. Allow 24 in. on the motor side of the unit for annual servicing.



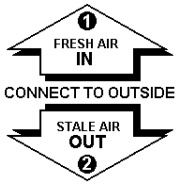

**Horizontal:** Use Ceiling Mounting Kit **(CM-02)** to suspend the ***RecoupAerator***® from the 'D' rings located on the four corners of the unit (SEE BELOW). The motor side of the unit should be facing the floor. Allow adequate space (12 inches) between the ceiling and the unit to allow for servicing of pulleys and belts. Allow 24 in. below the unit for servicing. Allow 24 in. on the side of the unit with the two filter access doors to facilitate removal of the heat recovery material and aluminum pre-filters, and for airflow balancing. It is not recommended that the unit rest on joists or decking when installed in the horizontal position, because it would limit access for motor (and belt) servicing.



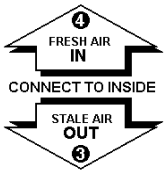

**Ducting:** Ducting between the ***RecoupAerator***® and the outdoors (those collars marked CONNECT TO OUTSIDE) and all ducting in unconditioned spaces **must be insulated.** Use vapor barriers as needed to prevent condensation. Vapor barriers always go on the warm side of a duct.

# Planning the Duct Work

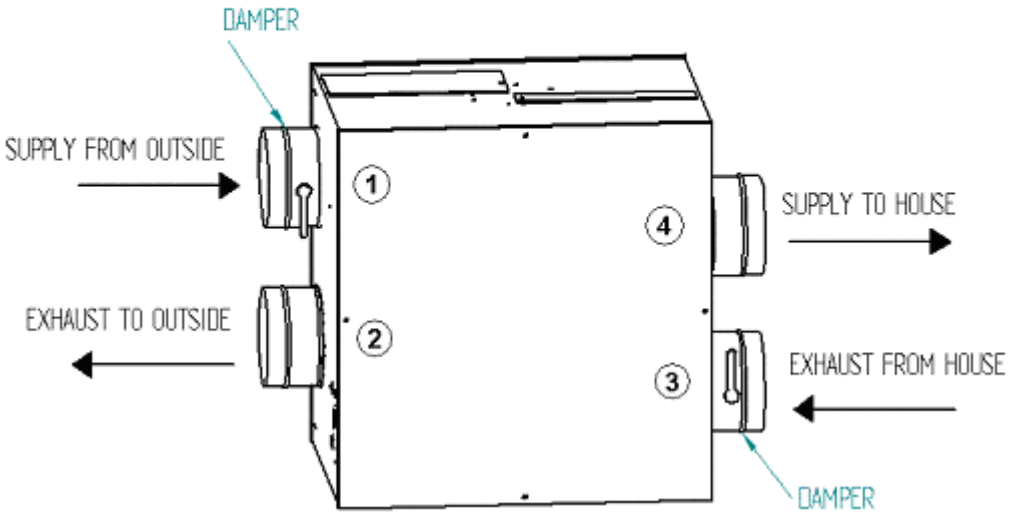
The unit has four 6-inch starting collars. Two collars are marked CONNECT TO OUTSIDE:




The other two collars are marked CONNECT TO INSIDE:



AIR FLOW DIAGRAM




To insure maximum airflow, use the largest practical duct for the installation. Under no circumstances should the trunk duct size be less than 6 inches, as this will restrict the airflow considerably. Insulated flex ducts tend to reduce blower noise levels but add airflow resistance, while galvanized ducts provide least resistance to air flow and are easiest to install properly. Depending on the customer's needs, the duct connections inside the house (❸&❹) will vary. The outside duct connections (❶&❷) are the same for all installations and must be insulated. Design and installation of ductwork must be in accordance with HVAC regulations to allow required quantities of fresh air to circulate through the home, and to exhaust equivalent quantities of stale indoor air.

## General Duct Design Guidelines

1. Use a minimum of 6 in. diameter round duct or equivalent for all connections to and from the ***RecoupAerator***®. Use of 8" ducts on main trunks is recommended, especially for ducts running to the outside.
2. To minimize backpressure: Make intake and exhaust duct runs as short and as straight as possible, with few elbows or bends. Always use 45-degree elbows instead of 90-degree where practical. Where flex duct is used, make sure that no 'crimping' occurs. Flex duct should be as evenly stretched as possible to avoid air restriction. Use "Y" connections instead of "T" connections wherever possible.
3. Position fresh air intakes away from known sources of pollution such as dryer vents, chimneys, and automobile exhaust. Locate fresh air intake and stale air exhaust at least 6 to10 feet apart and 40" from the corner of the building.
4. Position vents such that fresh air does not blow directly onto occupants or thermostat.
5. Joints between duct components must be fastened with screws, sealant and/or rivets and wrapped with duct tape (aluminum foil tape seems to be the best).
6. Noise transmission through the ducts can be minimized by using a short run of insulated flex duct on any duct trunks coming from the unit and going to the inside of the house.
7. Branches from main trunks should not be smaller than 5 inches typically.

8. Final operational duct system to have less than 0.5” w.c. total external static pressure.

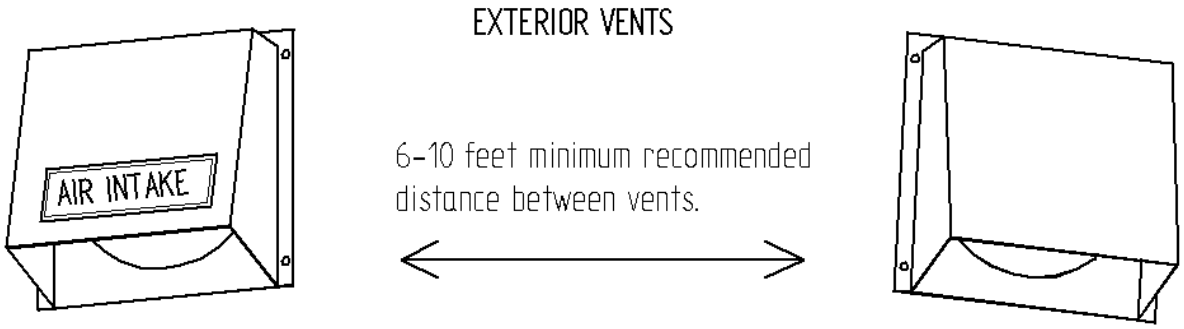
## ⚠ CAUTION

**All ducting to the outdoors (❶&❷) should be installed above anticipated snow and flood lines and fitted with screened weather caps to prevent bird and insect entry.**

# Installing the Outside Ducts

*Note: The ducts to the outside (❶&❷) must be insulated. The starting collars marked* "CONNECT TO OUTSIDE" *must be ducted to the outside of the building, and the following precautions should be taken:*

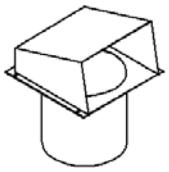
1. The ends of the two ducts should be as far apart as practical (at least six feet) to minimize re-circulation of the exhaust air from the collar marked (❷).




2. The ducts should be terminated using weather caps **(WT-06)** 6 in., **(WT-07)** in., **(WT-08)** 8 in., or other suitable termination kit to prevent rain and snow from entering. We strongly recommend using the WT-06, 07, or 08 vent hoods (see illustration below) since they are much less restrictive than normal weather caps. Ensure that the weather caps have wire mesh to keep out birds, small animals, and insects. The weather caps should be angled down and away from each other. The caps should not be near exhaust vents of other appliances like dryers or hot water heaters. Avoid placing air intake vents near exhaust vents from adjacent buildings, or sources of automobile exhaust. Never place an air intake in a garage, for instance.

3. Make sure that the joints between the termination kit and the wall are caulked against rain and air.

WALL TERMINATION KIT
WT–06 (07, 08, 10 or custom)



# Installing the Inside Ducts

Location of supply and exhaust vents inside the house is an important factor in ventilation. Consider the following guidelines for maximum effectiveness:

1. The air exhaust point should be located high in the room, as far as possible from the point of air entry. This will allow adequate space for the air to circulate.

2. In kitchens, do not place an exhaust vent within 3 ft. horizontally in any direction from the surface of the cooking range up to the ceiling. If an exhaust vent is placed anywhere near the cooking range, is must be equipped with a grease filter (or ducts must be accessible for cleaning.)

3. If an exhaust vent is located in a laundry room, then a lint filter is recommended.

**CAUTION!**
**If the *RecoupAerator*® is installed in an unconditioned space (not recommended), the section of the inside ducts that is exposed to the unconditioned air must be insulated (and possibly the unit itself).**

# Wiring

## WARNING! Disconnect all power to the unit before proceeding.

The ***RecoupAerator***® is supplied with one 120 Volt DC brushless motor and a controller that may be mounted near the unit or in a remote location. Follow all applicable electrical codes.

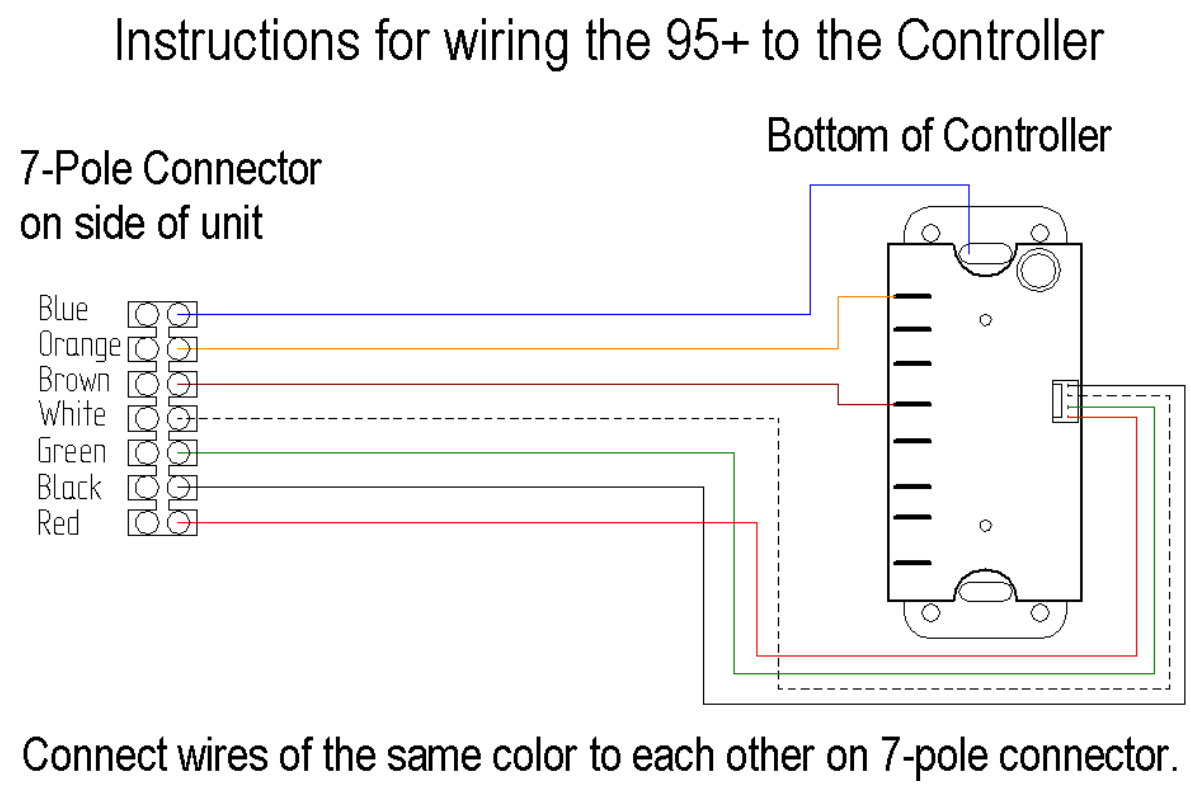
The General Electric DC brushless motor is programmed to provide constant airflow.

To wire the controller to the unit, follow these steps:

1. Remove the small black electrical cover on the cord side of the unit.
2. Run the wire through the rubber grommet on the black electrical box.
3. Using a 7-conductor 20/22-gauge wire, connect each of the 7 conductors to the corresponding color of each pole on the enclosed terminal block (refer to wiring diagram below).
4. Replace black electrical box.

5. Use included crimp style wire nuts to connect the other end of the controller wire to the exposed ends on the back of the controller. Make sure to match colors as you did on the unit.

Note: The unit will not operate without the controller wired to the unit.




The unit should be unplugged from the 120 Volt power supply before any electrical work is done. The externally accessible fuse is ¼ amps (312 series), 120 Volt.

## Wiring Optional Boost Controls

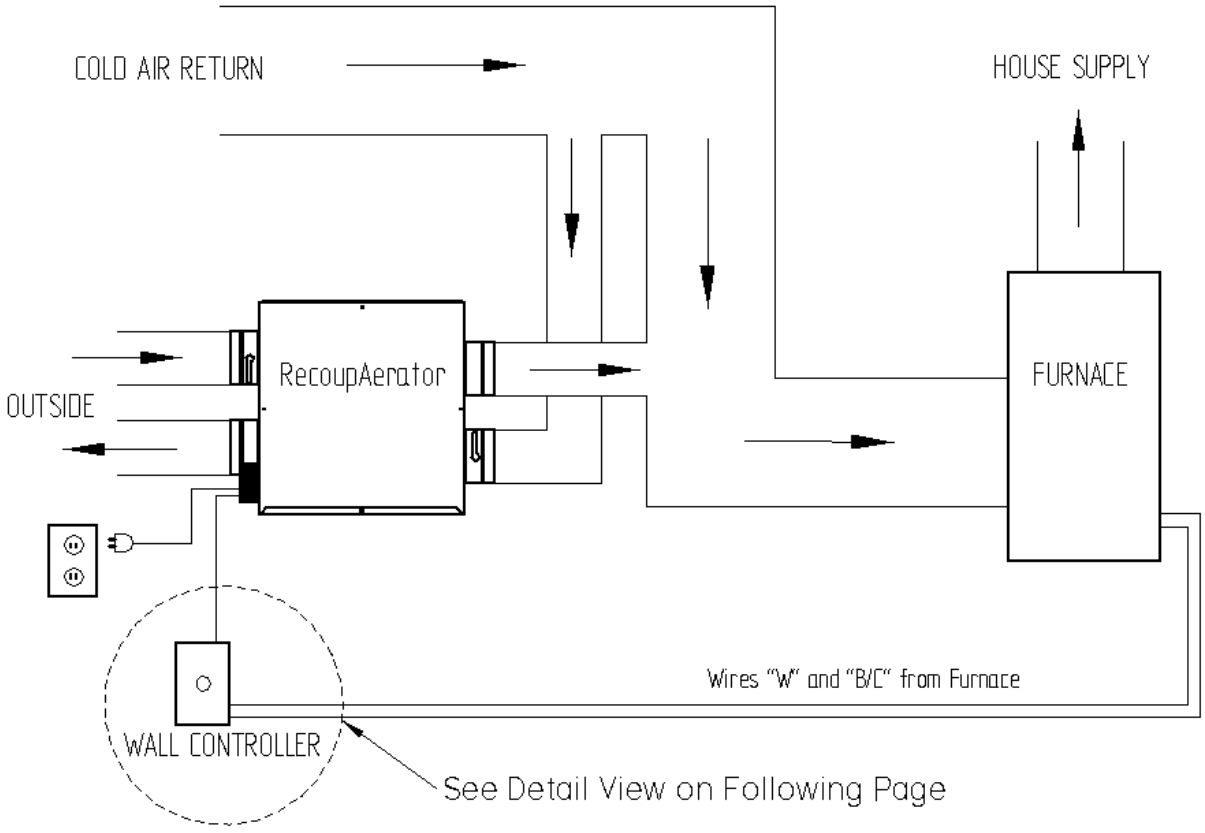
There are two quick connect terminals on the backside of the wall mount controller specifically for boost control. These terminals are used only when boost features are to be utilized (such as for bathroom timers, humidity related controls, and any other external boosting function.) See the Optional Devices list on page 10 of this manual for more about these options. While wiring the controller, run two separate wires (20/22 gauge), one connected to each quick connect post, to the outside of the wall outlet box in which the controller will be housed. Consult Wiring Diagram on page 11 for location of boost wire connections on controller. These wires will be used to wire your boost functions. For further details on these options, please see the detailed instructions that came with your optional boost controls.

## Wiring to the Furnace

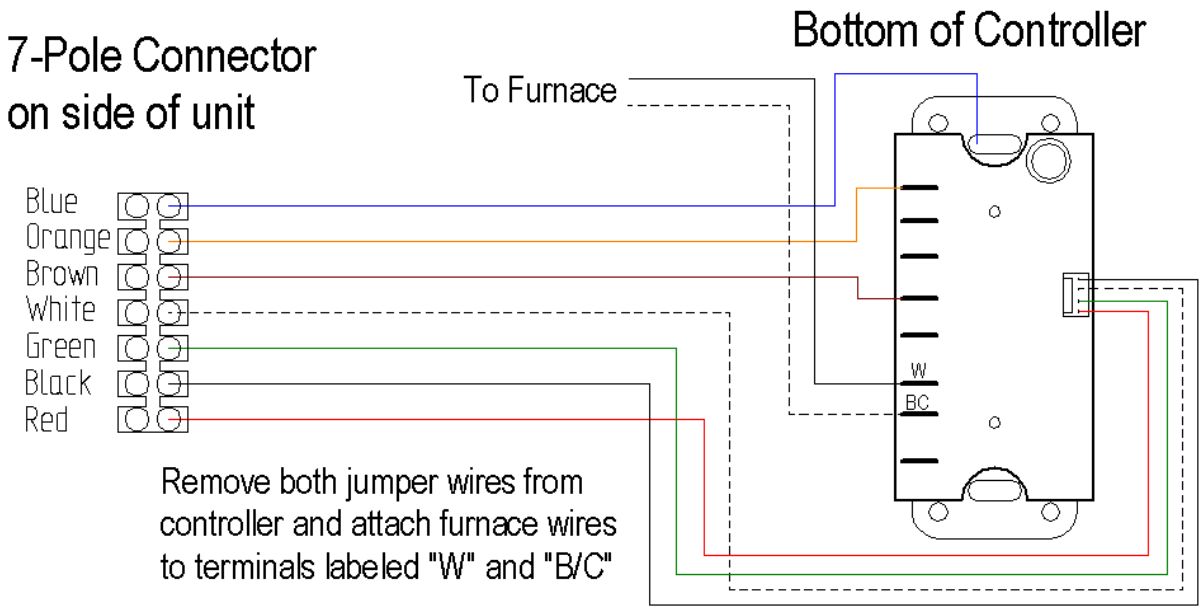
If the ***RecoupAerator***® is being installed to utilize the forced air ductwork (option 3), then it must be used in conjunction with the furnace/AC air handler. The purpose of operating the ***RecoupAerator***® only when the forced air system's air handler is in operation is to prevent a re-circulation effect. For this application use the wiring diagram below.

Locate the low voltage output and common wires from the furnace (or air handling device), which output 24VAC when it is time for the air handler to come on (usually denoted W1 and B/C; refer to your manufacturer's manual). Remove the two jumpers, which will come already attached to the backside of the controller, by gently pulling the quick connect terminals off of the metal prongs of the board. Now run wires from the your furnace to the input terminals on the backside of the controller denoted as "W" (24 VAC hot) and B/C (common). This will enable the ventilator to run only when the furnace (a/c) air handler is in operation. Do not use any device that cycles the main power supply to the ***RecoupAerator***®. Use of this method to cycle the unit on and off is detrimental to the system electronics and will void the factory warranty.

**Wiring to Allow RecoupAerator to Operate in Conjunction with Furnace**



## Detail View Showing Furnace Wired to Controller




# System Start-Up and Run Test

Once installation is complete, you can make a final check of all system components to ensure that everything is operating properly. To do this:

1. Open the motor side access door.

2. Turn the power on. If the ***RecoupAerator***® is wired to the furnace/AC air handler make sure that this air handler is on.

3. Make sure that the heat exchange wheel and both blower pulleys are turning freely.

# Balancing Airflow

**Definition**: It is important to balance the airflow of your new ***RecoupAerator***® to ensure that there is equal or slightly more air being brought into the home than is being removed. This task may not however directly result in a balanced or slightly pressurized home (every individual case could be different). It only lends the unit to bring in slightly more air than is being removed.

Before balancing the airflow, make sure that the installation has been completed and all ductwork is air tight and fully connected. Attempting to balance the airflow before ductwork

is complete will yield inaccurate results. To balance the airflow, a manometer is needed (optional accessory). There are four balancing ports on top of the **SD-95+** unit, one set beside each filter access door, marked IN and OUT. These ports should remain plugged except when balancing airflow.

1. Calibrate the manometer according to the instructions, making sure that it reads "0" with both ports exposed to atmosphere.

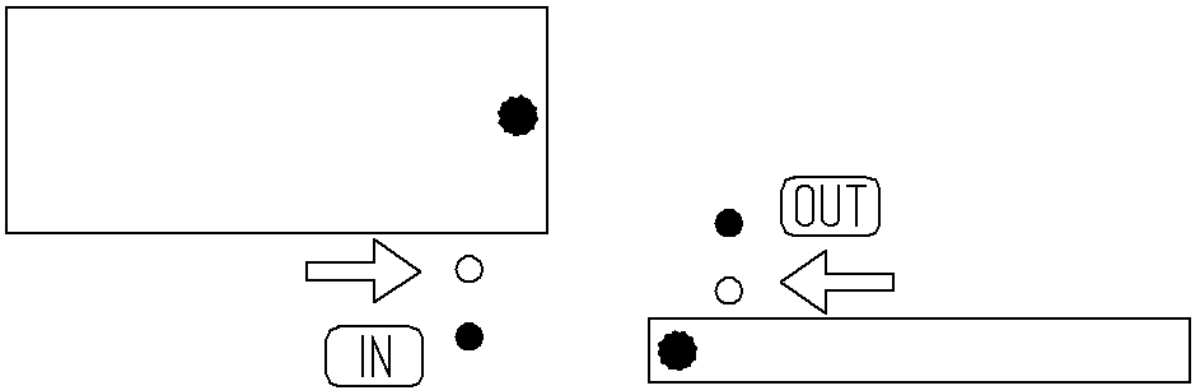
2. Connect the high-pressure inlet of the manometer to the IN port closest to the smaller filter door on top of the unit.

3. Connect the low-pressure inlet of the manometer to the OUT port closest to the larger filter door on top of the unit.

4. With the unit running on hi and the dampers on the duct collars completely open, read the manometer. The suction (which the manometer is reading) must be higher than 0. The optimum suction is .05 inches.

5. To adjust the airflow of the ***RecoupAerator***®, slightly close the damper of duct ❸ (stale air out). Wait for the manometer to acclimate and re-read. Adjust duct ❸ damper as needed.

6. Once the unit is balanced, replace rubber plugs in the ports.




**If you have questions regarding installation or unit operation, feel free to call:**

**1-800-535-3448**

## Filter Light

The "check filter" indicator light is located on the front side of the controller and will light after a continuous operation of 90 days (24 hrs/day, 7 days a week approximately). Due to differences in indoor and outdoor environments, your filters may or may not be in need of cleaning at this interval. It could be sooner or in need at a later time. The light is only an indication to check the filters. To reset the light (turn it off), first locate the very small hole in the face place of your controller just above the word "reset" and just below the red filter light. Using a small diameter object (such as a paper clip), insert the end into the small hole and hold in until the light goes off. The light will then come on again after approximately 90 days.

## General Warranty Information

Your ***RecoupAerator***® is guaranteed to be free from defects in materials or workmanship for 2 years from the date of purchase. See Warranty sheet (separate – not part of this manual) for complete information concerning your warranty. If you have lost your warranty sheet and have any questions concerning your warranty, call our toll-free number listed above.

## Installation Record

**Date of Installation:** _____

**Installer/Company:** _____

**Phone number:** _____

**Notes:** _____

_____

_____

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