PRODUCT INSTALLATION AND SAFETY INSTRUCTIONS

MODELS : (Patent Pending) RMAS06, RMAS08, RMAS10

READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

FOR RESIDENTIAL USE ONLY

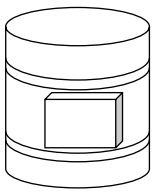
WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK HAZARD, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Shut off and disconnect all power supply to unit(s) prior to installation or service/repair of device.
2. Use this unit only in manner intended by manufacturer.
3. All applications of device must follow all applicable laws, codes, regulations, and standards.
4. Installation of device must be completed by a certified installation expert or HVAC professional.
5. For residential use only, any use beyond factory recommendations voids all warranties.

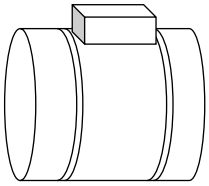
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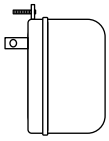
Parts Supplied for RMAS Series: each series /model sold as individual kit.



1 - RMAS* Switch Assembly Patent Pending



1 - RMAS* Motorized Damper



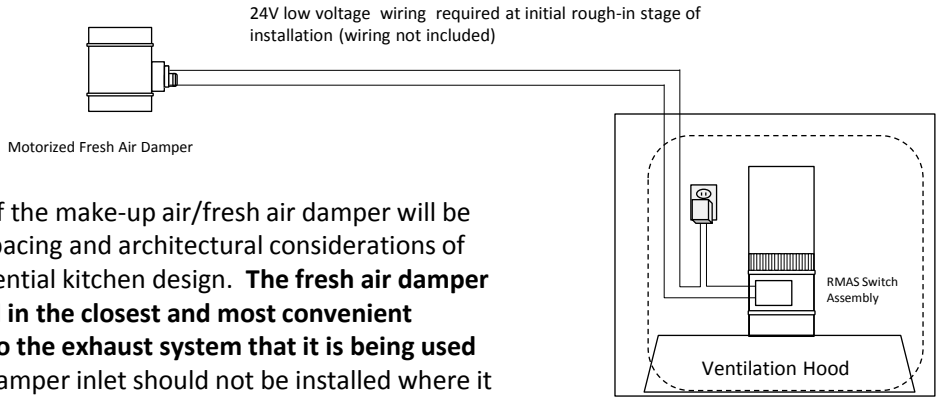
1 - 24V Plug-in Power Transformer

*Diameter varies by model

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For general comfort and aesthetics, it is recommended that the RMAS Fresh Air Damper intake is located in an area that does not ventilate directly on or into kitchen preparatory or dining areas.

Sizing the fresh air intake and exhaust duct symmetrically will help avoid air turbulence and drag while the internal air supply is replenished during operation of the kitchen vent hood.



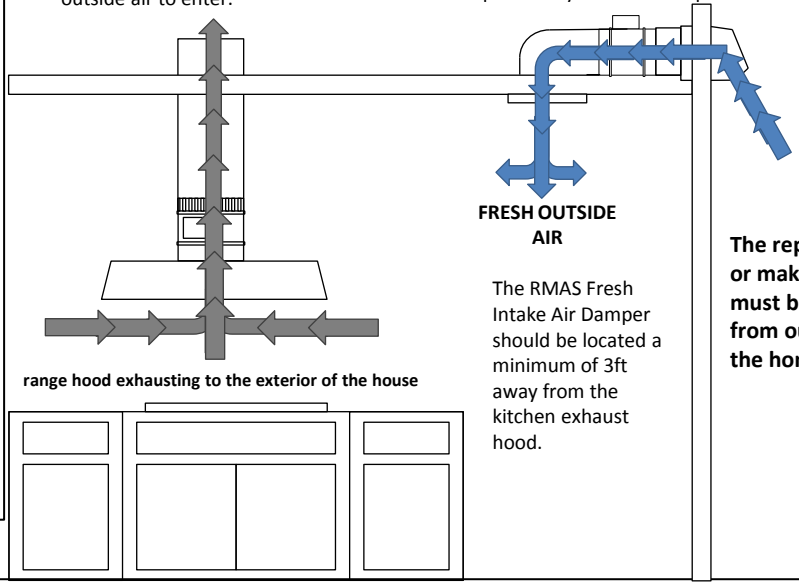
The actual location of the make-up air/fresh air damper will be determined by the spacing and architectural considerations of each individual residential kitchen design. **The fresh air damper needs to be installed in the closest and most convenient location in relation to the exhaust system that it is being used with.** The fresh air damper inlet should not be installed where it could confine or restrict air flow back into the area where the exhaust fan is located.

RMAS Switch Assembly must be installed in rigid ductwork.
The recommended location for the RMAS Switch Assembly collar is in a straight duct run directly above the kitchen exhaust fan motor. *The RMAS06/08/10 switch assembly can be installed in a horizontal duct and the RMAS06/08 in an inverted downdraft duct if necessary. (*see page 3)

The fresh air intake should be located at a high point in the kitchen away from any cooking/preparation/dining areas.
Benefits:
- The air is generally warmer in this location, and both cooler and warmer outside air will diffuse into the room with less of an impact to the occupants
- HVAC register covers are installed at ceiling levels so the grille cover for the fresh air inlet will be less obtrusive to kitchen design considerations
- Contractors will be able to access attic space, soffits, and sub-flooring between levels for easier installation of duct work
- Installing the fresh air intake away from ground level will reduce the amount of dust, pollen, and allergens drawn in with the outside air

During operation of the kitchen exhaust, the motorized damper will open to allow fresh outside air to enter the home. When the exhaust system is not in use the motorized damper will close and no longer allow outside air to enter.

Outside fresh air inlet must be installed on the exterior of the house a minimum distance of 10ft from combustion vents and other exhaust openings. Locate the fresh air inlet away from any outside motor, generator, pump, BBQ grill, hearth/fire pit, chemical storage area, or any potentially hazardous exposure area.



The RMAS Fresh Intake Air Damper should be located a minimum of 3ft away from the kitchen exhaust hood.

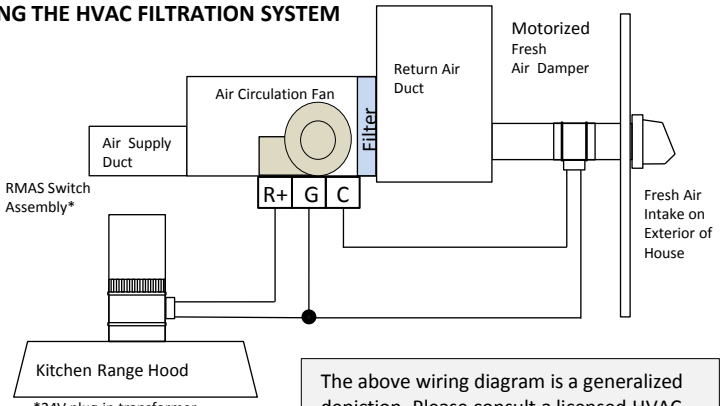
The replenishment or make-up air must be drawn from outside of the home.

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Residential Makeup Air System (RMAS) Direct Connect Installation:

THE RMAS ALSO HAS THE ABILITY TO CONNECT DIRECTLY TO THE HVAC AIR CIRCULATION FAN MOTOR. THIS PROVIDES CLEANER AND HEALTHIER AIR BY UTILIZING THE HVAC FILTRATION SYSTEM DURING OPERATION OF OUR RESIDENTIAL MAKE-UP AIR SYSTEM.

During operation of the kitchen range hood, the RMAS Switch Assembly will activate the air circulation fan motor independently of the heating and cooling system and open a motorized damper allowing fresh air to enter through the return air duct. The outside air will then pass through the furnace filter prior to being distributed throughout the air supply system. When air is no longer being exhausted by the kitchen range hood, the RMAS Switch Assembly and motorized damper will return to the "off" position.



The above wiring diagram is a generalized depiction. Please consult a licensed HVAC or electrical contractor/professional prior to attempting any connections to the HVAC system or electrical components. Please see below for the detailed wiring diagram.

This installation method will not override or affect the normal function of the HVAC thermostat or corresponding components. The HVAC system will heat and cool during operation of the make-up air system as needed by measuring the internal air temperature of the home.

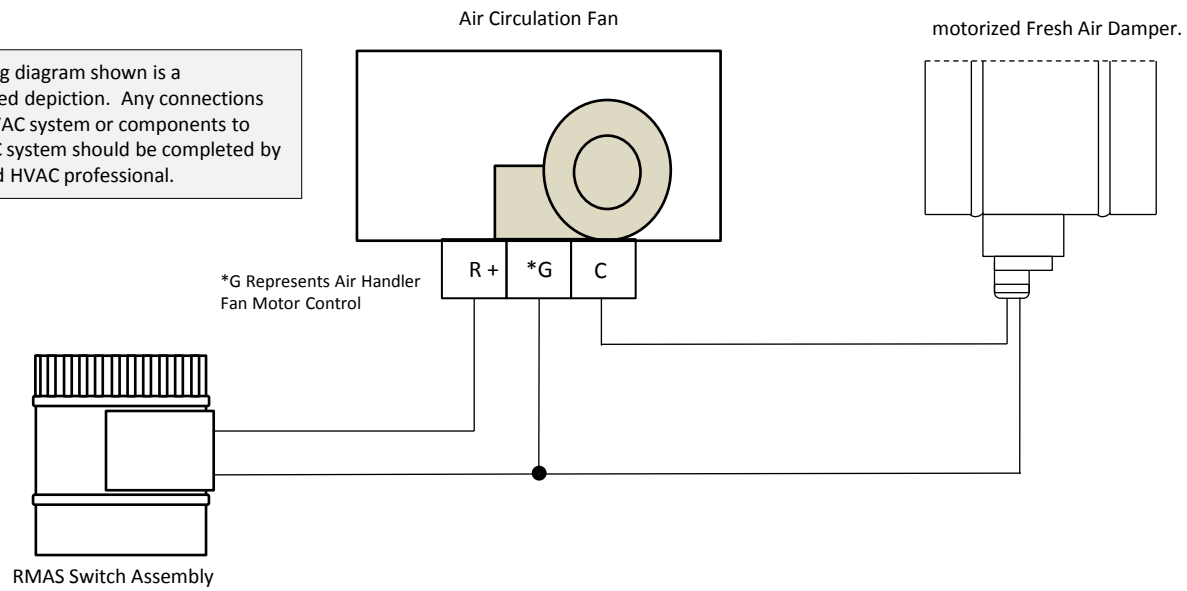
Unconditioned outside air is necessary regardless of the method used to bring it into the home due to mass balance considerations. Furthermore, the replenishment air will require heating or cooling to the thermostatically programmed internal temperature of the home whether brought in by a make-up air system or through natural air infiltration.

RMAS Direct Connect Wiring Diagram:

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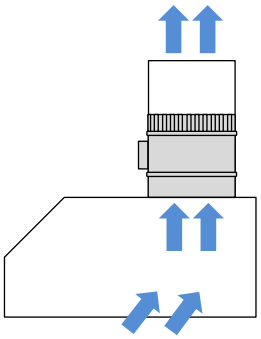
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The wiring diagram shown is a generalized depiction. Any connections to the HVAC system or components to the HVAC system should be completed by a licensed HVAC professional.

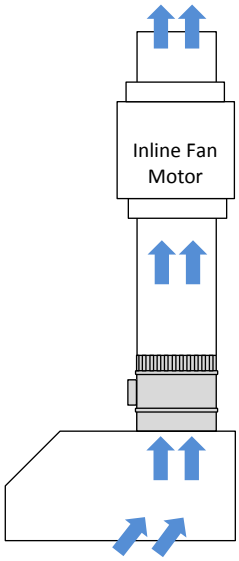


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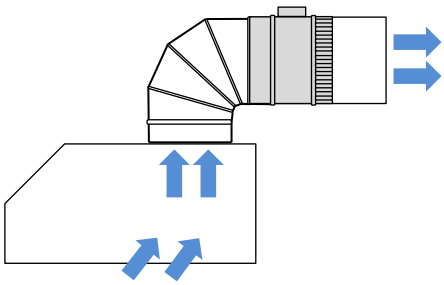
Vertical Internal Fan Motor Installation:



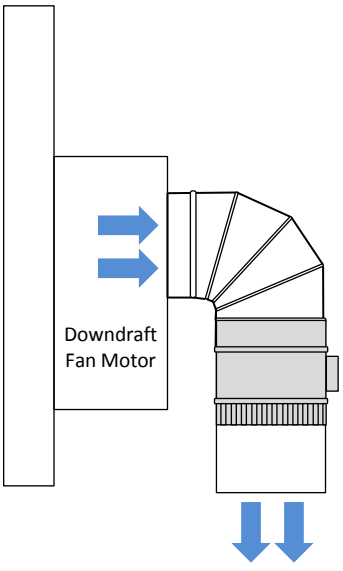
Inline Fan Motor Installation:



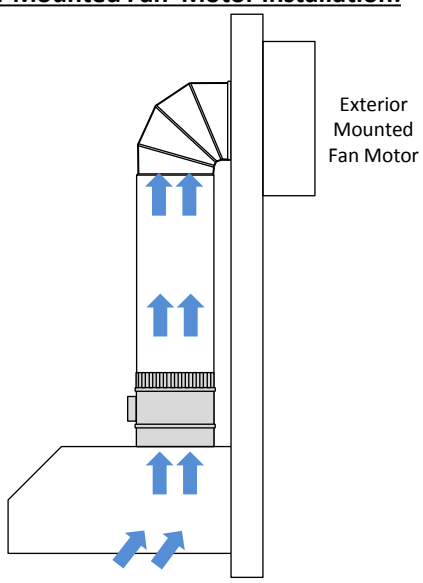
Horizontal Internal Fan Motor Installation:



Downdraft Installation: ****RMAS06, RMAS08, RMAS10EL ONLY****



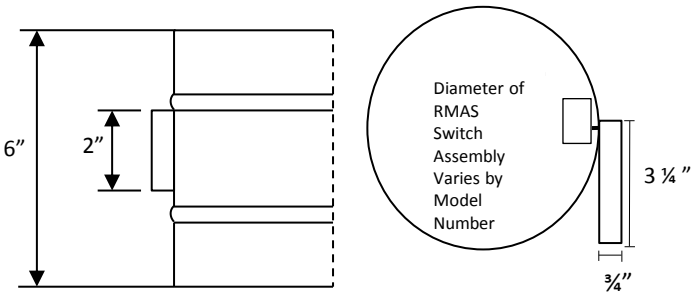
Exterior Mounted Fan Motor Installation:



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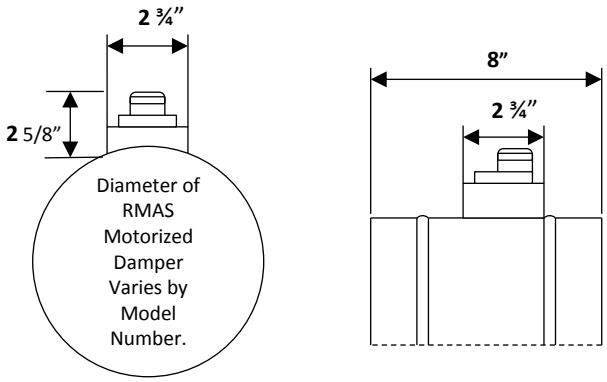
RMAS Switch Assembly and Collar Specifications:

Unit Specifications:
16 AWG x 2, 10A, 125VAC. **Refer to full safety instructions prior to installation.**



RMAS Motorized Fresh Air Damper Specifications:

Unit Specifications
Weight: 3 lbs.
0.25 amps, 24 VAC, 60 HZ, 7 watts. Shipped in normally closed position.



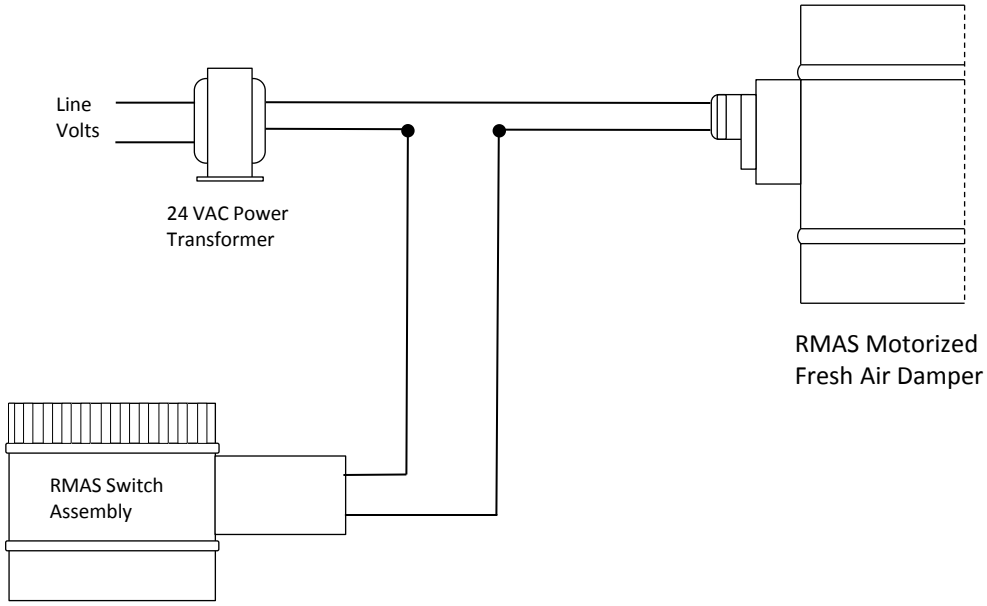
RMAS Wiring Diagram:

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Circuit Setup

1. **Using a 24 Volt Class 2 Transformer, Take one Open terminal and Connect to the Motorized Damper.**
2. **Still Using the 24 Volt Transformer, Take the other Open Terminal and Connect to the RMAS Switch Assembly.**
3. **Lastly Take the Second Open Terminal from RMAS Switch Assembly and Connect to The Motorized Damper’s other Open terminal, therefore completing the Circuit.**



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Warranty Information

LIMITED FIVE YEAR WARRANTY:

CCB Innovations, LLC offers a limited five year parts only warranty for manufactured products from the original date of purchase. Warranty does not cover labor, removal of device, or installation of new device provided by manufacturer. All warranties voided by misuse of product, use beyond manufacturer's recommendations, non-residential use, or negligence by contractor or installer. Warranty only applies in the United States and Canada. Any product sold or used outside of the United States will not be covered under manufacturers limited warranty.

ADDITIONAL ITEMS EXCLUDED FROM MANUFACTURERS LIMITED WARRANTY:

•Damage or failure resulting from accident, fire, flood, Acts of God, improper installation or installation not in accordance with applicable laws, codes, and regulations

•Any alteration or modification to original product or components beyond stated manufacturer's guidelines and recommendations

For product assistance please contact us at 1-855-300-3229 or techsupport@ccbinnovations.com

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