

IMPERIAL

KITCHEN VENTILATION

80% of the air that is exhausted from a kitchen is replaced by outdoor air.



Make-Up Air

Table of Contents

Product Safety	Page 1
MA7, MA8, MA10 Series Technical Specifications	Page 2
Passive Air Flow Installation	Page 4
Air Handler Fan Direct Connection Installation	Page 5
Elbow Switch Assembly (Optional)	Page 6
Warranty Information	Page 7

Product Installation and Safety Instructions

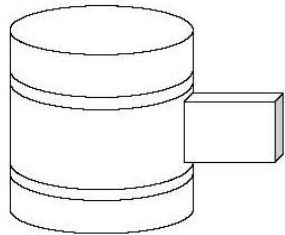
READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

FOR RESIDENTIAL USE ONLY

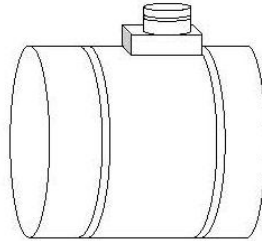
WARNING: To reduce the risk of fire, electrical shock hazard, or injury to persons, observe the following:

- 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.

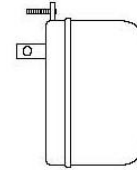
MA7, MA8, MA10 Technical Specifications



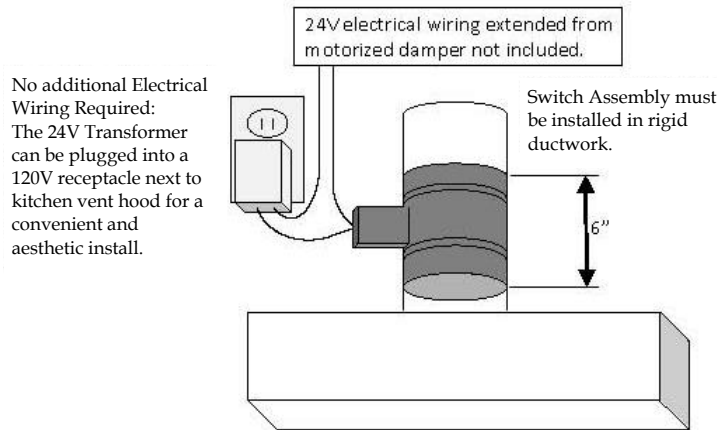
Switch Assembly



Motorized Damper



24V Plug-in Power Transformer

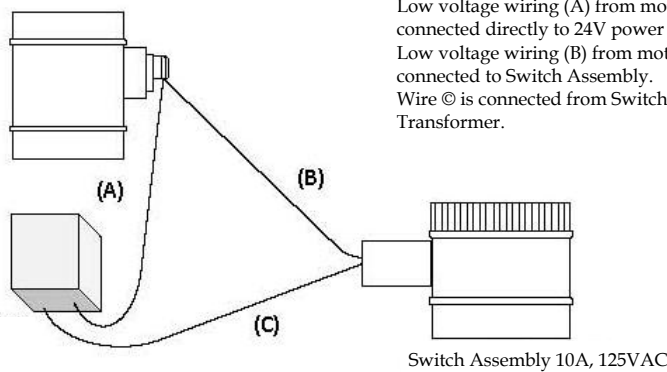


The recommended location for the Switch Assembly collar is in a straight duct run directly above the kitchen exhaust fan motor. If the Switch Assembly collar is installed 24" or higher above the exhaust fan or unable to be installed in a straight duct run, then the a 90 degree elbow may be required.

Wire Specifications Below (wire not included)

Motorized Damper
.25 amps, 24VAC, 60 HZ, 7 Watts

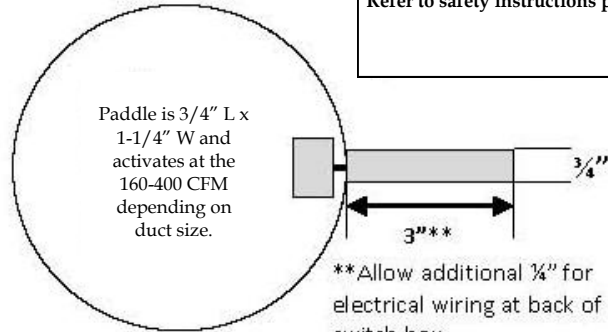
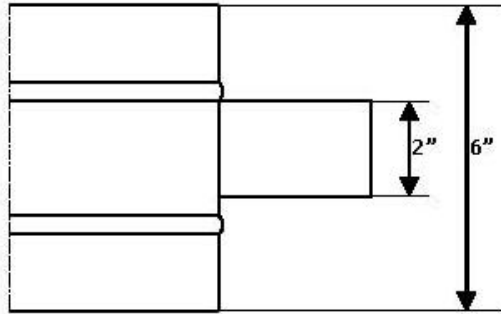
24V Plug-in Transformer:
Input: 120VAC, 60HZ, 23A
Output: 24VAC, 20VA



Low voltage wiring (A) from motorized fresh air damper is connected directly to 24V power transformer.
Low voltage wiring (B) from motorize fresh air damper is connected to Switch Assembly.
Wire © is connected from Switch Assembly to 24V Power Transformer.

Technical Specifications Continued...

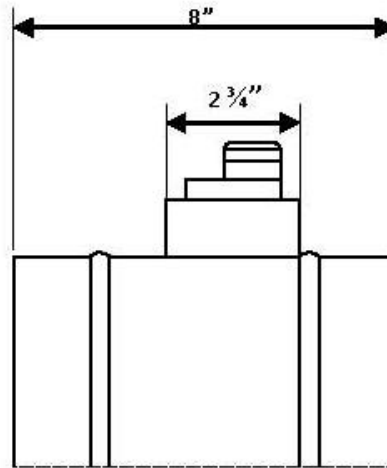
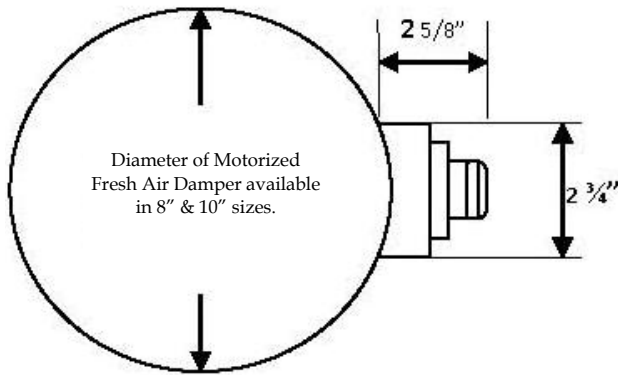
Switch Assembly and Collar Specifications:



Unit Specifications
Weight: 1.5 lbs, 16 AWG x 2, 10A, 125VAC.
Refer to safety instructions prior to installation.

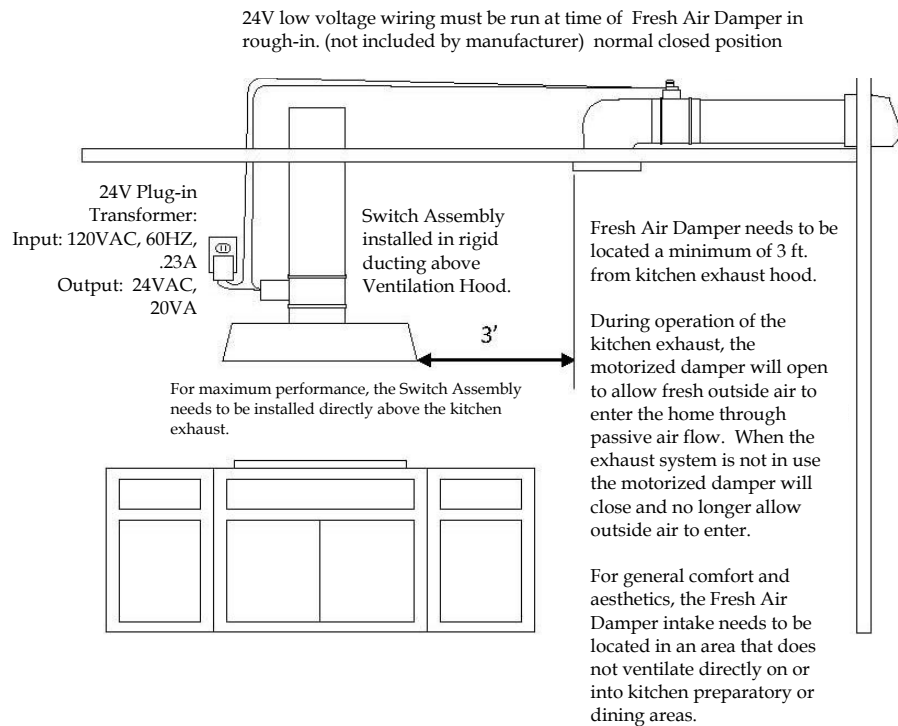
**Allow additional 1/4" for electrical wiring at back of switch box.

Motorized Fresh Air Damper Specifications:



Unit Specifications
Weight: 3 lbs, .25 amps, 24VAC, 60 HZ, 7 Watts.
Shipped in normally closed position.
Refer to safety instructions prior to installation.

Passive Air Flow Installation



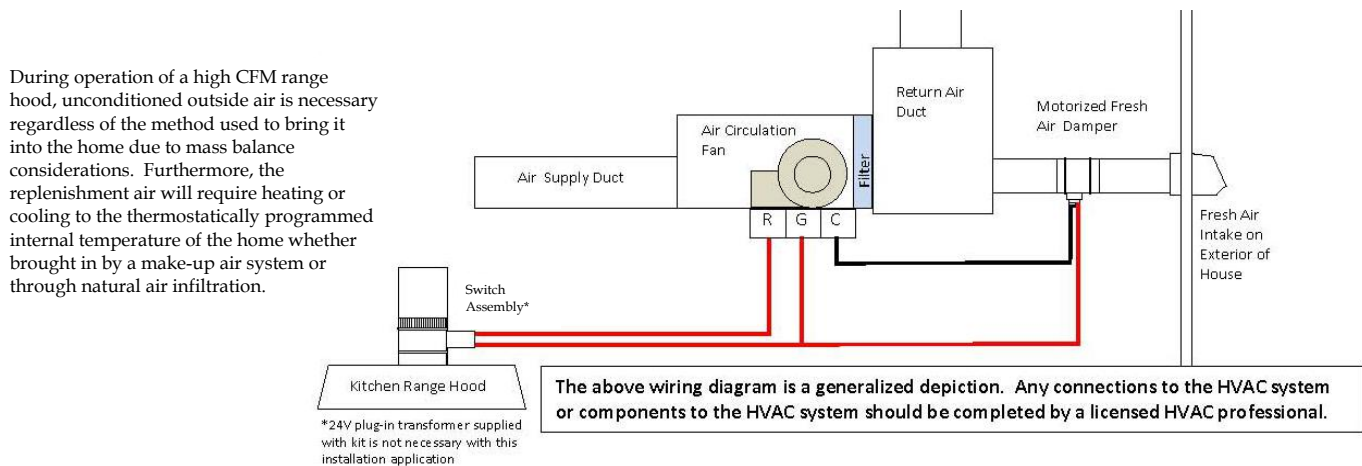
The replenishment or make-up air must be drawn from the outside of the home.

Outside fresh air inlet must be installed on the exterior of the house a minimum distance of 10 ft. 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 areas.

Air Handling Fan Direct Connect Installation

Using a revolutionary new method of installation, the MA7, MA8 & MA10 have 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 Switch Assembly will activate the air circulation fan motor independently of the heating and cooling system to 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 Switch Assembly will return to the "off" position. The installation method will 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.



The size of the fresh air intake duct and motorized damper needs to be relative to the size of the kitchen exhaust ducting and air evacuation rate.

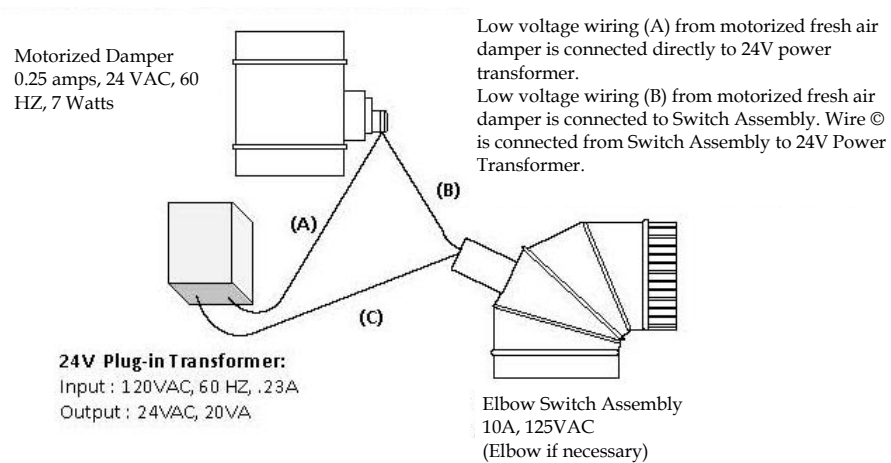
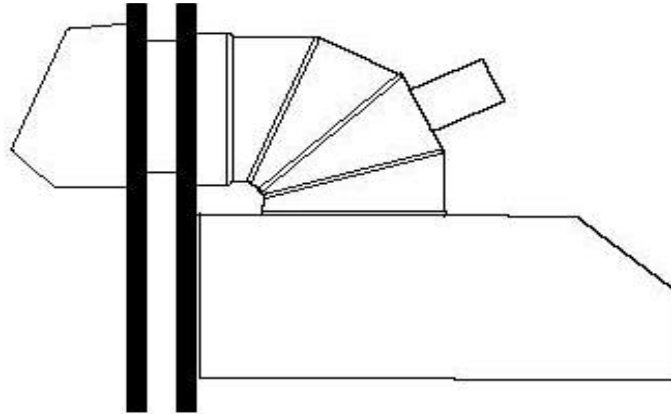
Recommended Fresh Air Intake Sizing

- 8" Motorized Damper – Up to a total of 1000 CFM total exhaust rating
- 10" Motorized Damper – Anything above a 1000 CFM total exhaust rating

Sizing the fresh air intake and duct symmetrically will help avoid air turbulence and drag while the internal air supply is replenished during operation of the kitchen vent hood. The Switch Assembly is powered solely by the HVAC control panel and is not connected through an external source or electrical supply, making it safe for the use with the HVAC system.

Elbow Switch Assembly (Optional)

The 90 degree Elbow model can be attached directly to an outside wall, giving the installer or HVAC contractor the ability to complete even the tightest installations. Elbow must be attached to rigid ducting.



Warranty Information

Imperial offers a limited three 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, any product sold or used outside of the United States will not be covered under manufacturer's limited warranty.

Additional Items Excluded From Manufacturer's Limited Warranty:

- Cosmetic damages not reported or claimed within 48 hours of original purchase.
- Damage or failure resulting from accident, fire, flood, Acts of God, improper installation or installation not in accordance to applicable laws, codes, and regulations.
- Any alteration or modification to original product or components beyond stated manufacturer's guidelines and recommendations.