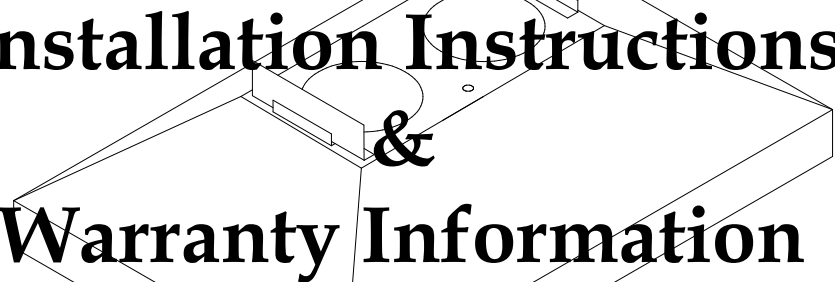




Residential Make Up Air System
MA7, MA8 & MA10

A 3D cutaway diagram of a kitchen range hood, showing its internal components and the space above the cooktop. The diagram is rendered in black lines on a white background.

**Installation Instructions
&
Warranty Information**

**DO NOT THROW AWAY,
PROPERTY OF THE HOME OWNER!**

Imperial Cal Products, Inc.



READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

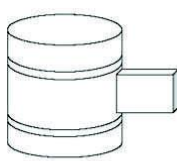
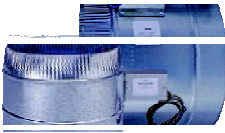
FOR RESIDENTIAL USE ONLY

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

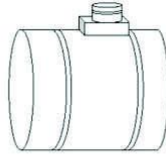
- 1 Shut off and disconnect all power supply to unit (s) prior to installation or service/repair of device.
- 2 Use this unit only in manner intended by manufacturer.
- 3 All applications of device must follow all applicable laws, codes, regulations and standards.
- 4 Installation of device must be completed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

**PROPERTY OF HOME OWNER,
DO NOT THROW AWAY!**

Technical Specifications



Switch Assembly

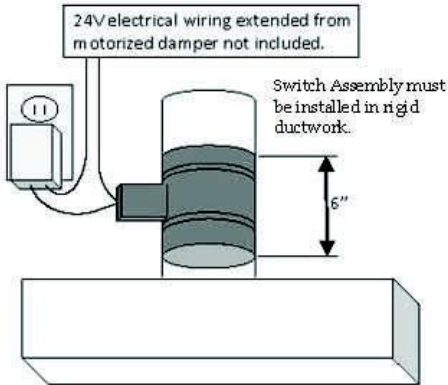


Motorized Damper



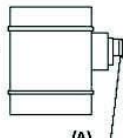
24V Plug-in Power Transformer

No additional Electrical Wiring Required: The 24V Transformer can be plugged into a 120V receptacle next to kitchen vent hood for a convenient and aesthetic install.



The recommended location for the Switch Assembly collar is in a straight duct run directly above the kitchen exhaust fan motor. We suggest installation of Switch Assembly collar be no higher than 24" above exhaust fan motor. If you are unable to install in a straight duct run, a 90 degree elbow may be required.

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

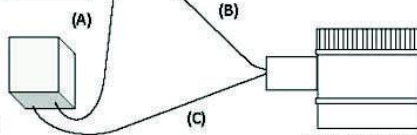


Low voltage wiring (A) from motorized fresh air damper is connected directly to the 24V power transformer.

Low voltage wiring (B) from motorized fresh air damper is connected to Switch Assembly.

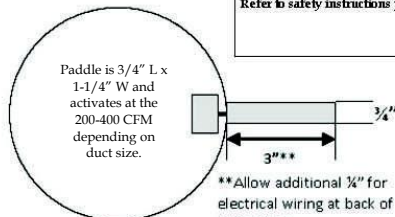
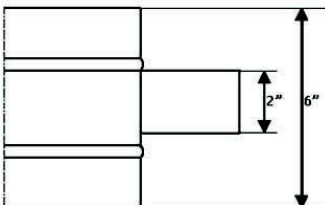
Wire (C) is connected from Switch Assembly to 24V Power Transformer.

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



Switch Assembly 10A, 125VAC

Switch Assembly and Collar Specifications:



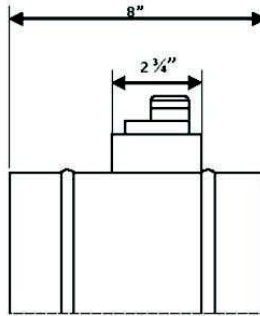
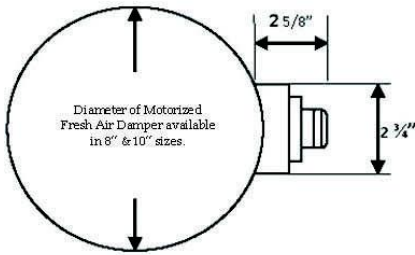
Unit Specifications

Weight: 1.5lbs, 16 AWG x2, 10A, 125VAC.

Refer to safety instructions prior to installation.

**Allow additional 3/4" for electrical wiring at back of switch box.

Motorized Fresh Air Damper Specifications:



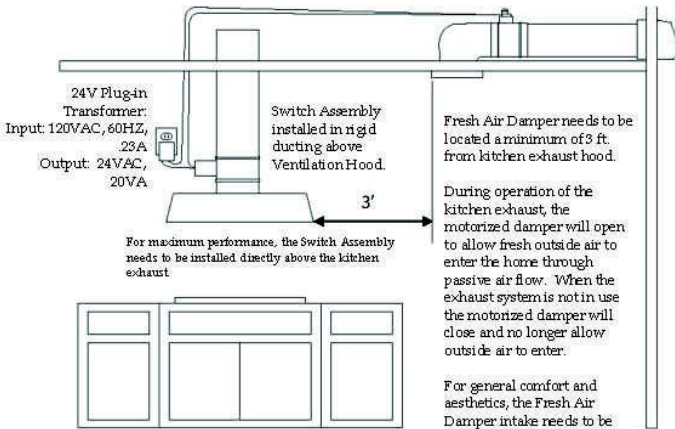
Unit Specifications
 Weight: 3 lbs, 25 amps,
 24VAC, 60 HZ, 7 Watts.
 Shipped in normally closed
 position.

**Refer to safety instructions
 prior to installation.**

Passive Air Flow Installation

24V low voltage wiring must be run at time of rough-in. (not included by manufacturer)

Fresh Air Damper in normal closed position



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.

Fresh Air Damper needs to be located a minimum of 3 ft. from kitchen exhaust hood.

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

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

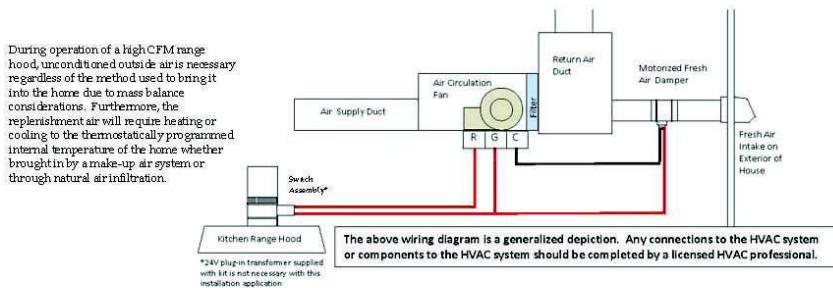
For maximum performance, the Switch Assembly needs to be installed directly above the kitchen exhaust



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.



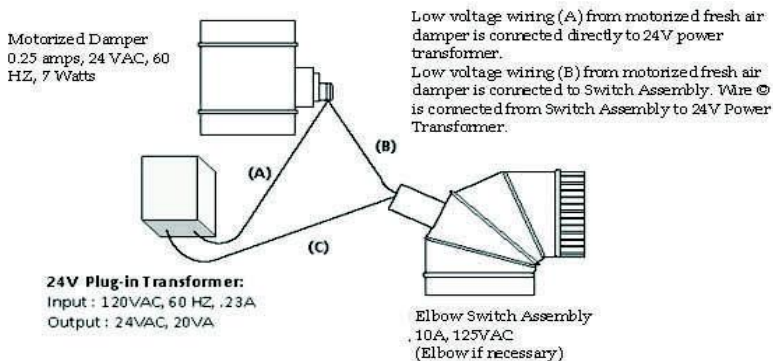
The size of the fresh air intake duct and motorized damper needs to be relative to the size of the kitchen exhaust ducting and air evacuation rate.

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 (If necessary)



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 3 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.

***OPTIONS**

90 Degree Elbow Transition available. Call with Duct Size.

