



Automatic Make-Up Air Damper



October 2009



Automatic Make-Up Air Damper

Equalized Air Pressure For A Well-Balanced Home (and budget)

Providing make-up air for exhaust devices is easy, controlling it is not - until now. Broan Automatic Make-Up Air Dampers are the first to provide synchronized operation for kitchen, bath and whole house ventilation products. Installation is simple and requires no special wiring. The intelligent design options ensure optimum performance in a variety of installations and applications. Highly effective and affordable, the Broan Automatic Make-Up Air Dampers strike the perfect balance to keep you and your home breathing easy.



- Economical, ruggedly constructed galvanized motorized damper
- SMD6 and SMD8 are designed for use with Broan SmartSense ventilation fans and select BEST range hoods
- MD6T, MD8T, MD6TR and MD8TR are designed for select BEST and Broan range hoods
- Can be controlled by more than one Broan or BEST ventilation product

The Broan Automatic Make-Up Air Damper's efficient synchronous operation provides make-up air only when ventilation fans are operating. Passive systems waste energy as they allow unconditioned air in every time the heating and cooling system is running.

Flexible Installation Options

SMD6/8

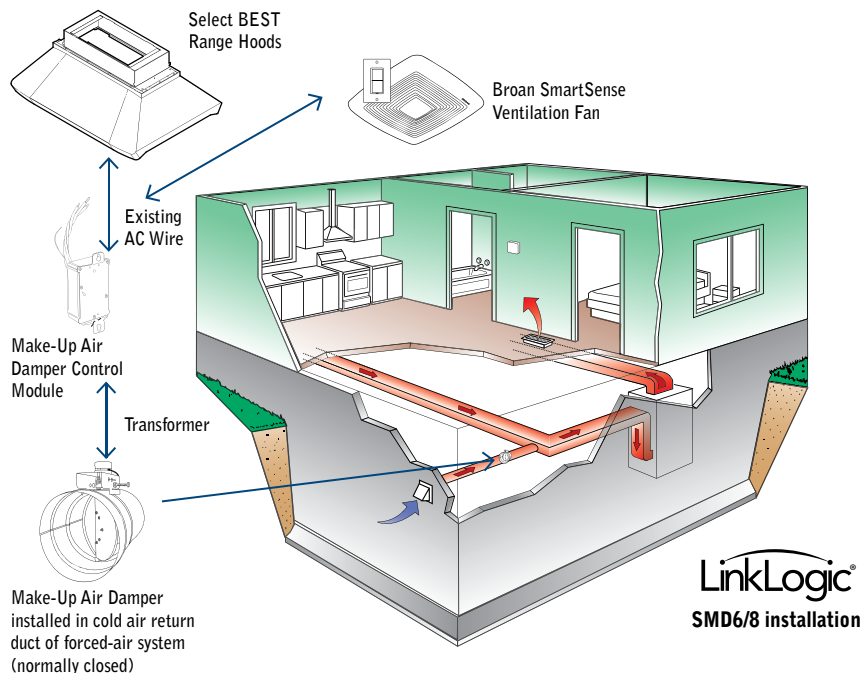
Forms a complete balanced ventilation system by linking Broan SmartSense® ventilation fans and/or select BEST® range hoods using the LinkLogic® system.

Features

- Heavy duty galvanized steel construction
- Includes 24VAC transformer and a LinkLogic® enabled make-up air damper control module
- Available sizes: 6-inch round (SMD6) and 8-inch round (SMD8) normally closed
- Link Logic® system uses existing AC wiring to communicate between damper control and ventilation devices and requires no added wiring

Installation (see below)

- Insert within a 6-inch or 8-inch duct running from an exterior wall to the cold air return of a forced-air system
- If there is no forced air return, the make-up air duct can be run to a wall or ceiling register in a location that minimizes concerns about drafts and maintains 5' separation from the cook appliance or hood
- Damper assemblies can be "ganged" for high volume applications
- Ganged dampers open and close simultaneously
- Transformer and make-up air control are easily installed adjacent to the Make-Up Air Damper



- Damper opens automatically to replace the air being exhausted by ventilation fans or range hoods, and then closes tightly when ventilation fans are turned off
- Prevents excess air from entering the home during heating or cooling calls, reducing energy consumption

LinkLogic®



• LinkLogic® digital control module

- Installs in any electrical box and communicates over existing power lines in the home.
- Controls 120VAC to the 24VAC transformer, causing the damper to open or close as needed when ventilation devices are turned on or off

MD6T/8T or MD6TR/8TR

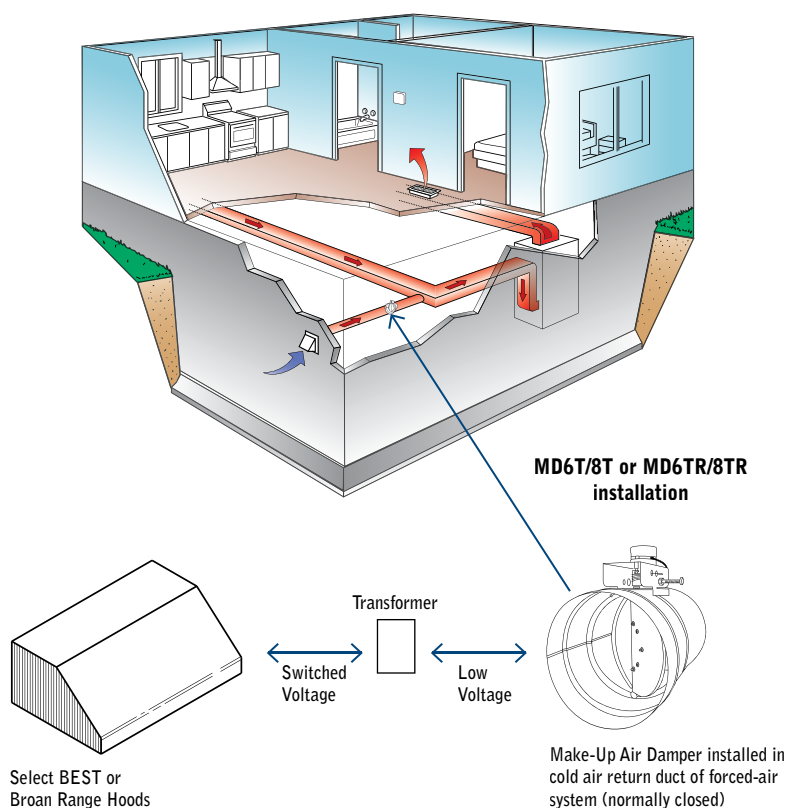
Balances indoor air pressure by providing make-up air for select BEST® or Broan® range hoods.

Features

- Heavy duty galvanized steel construction
- Includes 24VAC transformer
- Available sizes: 6-inch round (MD6T) and 8-inch round (MD8T)
- Two convenient models:
 - MDT is designed for devices with a switched 120VAC output or dry contact
 - MDTR is designed for devices with a switched 12VDC output
 - Includes low voltage relay module

Installation (see below)

- Insert within a 6-inch or 8-inch duct running from an exterior wall to the cold air return of a forced-air system
- If there is no forced air return, the make-up air duct can be run to a wall or ceiling register in a location that minimizes concerns about drafts and maintains 5' separation from the cook appliance or hood
- Damper assemblies can be "ganged" for high volume applications
- Ganged dampers open and close simultaneously
- Low-voltage wiring transmits open/close signal to the make-up air damper

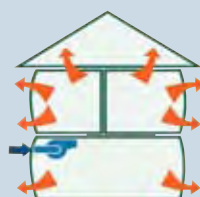


Causes of Unbalanced Air Pressure

Supply ventilation systems push air into the home causing positive pressure. Conversely, when ventilation fans and range hood fans exhaust stale/polluted indoor air to the outside, negative air pressure develops unless the exhausted air is replaced by fresh outdoor air.

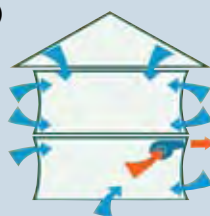
Effects of Positive Air Pressure (supply systems)

- Forces warm/humid air into wall cavities, resulting in potential mold/mildew and structural issues
- Unconditioned and typically uncontrolled air is **pushed** into the home, resulting in increased energy costs



Effects of Negative Air Pressure (exhaust systems)

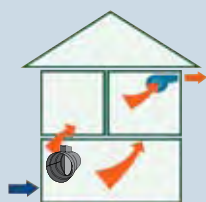
- Exhaust fans unable to work at full, rated capacity
- Unconditioned and typically uncontrolled air is pulled into the home, resulting in increased energy costs
- Draws hot/humid air inside, causing mold/mildew and structural damage



The Broan Make-Up Air Damper used in conjunction with Broan SmartSense® and select BEST® range hoods ensures proper ventilation in the home by effectively balancing indoor air pressure only when air is being exhausted.

Optimal Balanced Air Pressure

- Air intake and exhaust are equalized
- Ventilation devices function properly
- Helps maintain the home's integrity
- Enhances energy efficiency



Complete Application Guide
available at www.broan.com or
www.bestranghoods.com



Broan. The leader in residential ventilation.



Broan® is America's leading brand of residential ventilation products including range hoods, sensing fans, ventilation fans, heater/fan/light combination units, Indoor Air Quality (IAQ Systems,) built-in heaters, whole-house fans, electric and solar-powered attic ventilators and trash compactors.

NuTone® is America's leading brand of residential built-in convenience products including door chimes, central vacuum systems, stereo intercom systems, ceiling fans, home theater speakers, medicine cabinets, ironing centers and ventilation fans.

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