AUTOMATIC MAKE-UP AIR DAMPER

February 2015
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. BEST® 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, BEST Automatic Make-Up Air Dampers strike the perfect balance to keep you and your home breathing easy. What's more, BEST has the tools to help installers specify the proper system. Based on state codes, our online “Range Hood Make-Up Air Specifier” guides the design of the right make-up air damper system for any home.

- Economical, ruggedly constructed galvanized motorized damper
- MD6TU, MD8TU and MD10TU are designed to work universally with any BEST or Broan range hood
- SMD6 and SMD8 are designed for use with Broan SmartSense ventilation fans and select BEST range hoods
- MD6T, MD8T and MD10T are designed for select BEST and Broan range hoods
- Can be controlled by more than one Broan or BEST ventilation product
- 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
- Interlocked systems meet IRC code requirements for make-up with range hoods >400 CFM
The Broan/Best 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.

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

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

The Broan Make-Up Air Damper Application Guide explains what make-up air is and how the damper works in conjunction with range hood ventilation. Visit www.BESTrangehoods.com/catalogs to download a copy.

Make-Up Air Damper Tools for Installers and Consumers
The Broan Range Hood Make-Up Air Specifier assists installers in specifying the right make-up air damper system for each installation. A simple form walks you through all the details for the State you are working in, and delivers specific product and installation results. Visit www.BESTrangehoods.com and click on “Trade Resources” at the top of the page.
Flexible Installation Options

MD6TU/8TU/10TU (Universal)

Universal design works with any BEST® or Broan® range hood over 300 CFM to balance indoor air pressure by providing interlocked make-up air without requiring a direct wire connection between the range hood and the damper.

Features
- Heavy-duty galvanized steel construction
- Includes air flow sensor assembly, low voltage switch and 24VAC transformer
- Sensor installs directly to exhaust duct from range hood
- Available sizes: 6-inch round (MD6TU), 8-inch round (MD8TU) and 10-inch round (MD10TU) normally closed

Installation (see adjacent)
- Use fresh air inlet, Models 641FA (6”), 643FA (8”) or 610FA (10”), to bring outdoor air in from exterior
- Insert within a 6-inch, 8-inch or 10-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 a 5-foot separation from the cooking appliance or hood
- Controls 24VAC transformer causing the damper to open or close as needed when air flows as a result of turning the range hood on or off

SMD6/8

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

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

Installation (see adjacent)
- Use fresh air inlet, Models 641FA (6”), 643FA (8”) or 610FA (10”), to bring outdoor air in from exterior
- 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 a 5-foot separation from the cooking 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
- 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/10T

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), 8-inch round (MD8T) and 10-inch round (MD10T)

Installation (see adjacent)
- Use fresh air inlet, Models 641FA (6”), 643FA (8”) or 610FA (10”), to bring outdoor air in from exterior
- Insert within a 6-inch, 8-inch or 10-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 a five-foot separation from the cooking 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
Select BEST or Broan Range Hoods

Make-Up Air Damper installed in air return duct of forced-air system (normally closed)

Switched Voltage
Low Voltage

Transformer

Make-Up Air Damper (optimally installed) optimally installed in air return duct of forced-air system

Fresh Air Inlet

Broan SmartSense Ventilation Fan

Existing AC Wire

Transformer

Make-Up Air Damper Control Module

Make-Up Air Damper installed in air return duct of forced-air system (normally closed)

Fresh Air Inlet

Universal design works with any BEST® or Broan® range hood over 300 CFM to balance indoor air pressure by providing interlocked make-up air without requiring a direct wire connection between the range hood and the damper.