

# Freshex™ FRESH AIR VENTILATION

## Make-Up Air Controls

FRESHEX™ Make-Up Air Control dampers provide a simple and economical solution for providing make-up air to any residential or light commercial HVAC System. All dampers are constructed of spiral formed galvanized steel with a single blade to control the flow of air that pivot on a high quality self lubricating bushing, designed to provide long life.

The single blade damper closes against a neoprene gasket seal. This provides a positive seal for a tight closure and minimal leakage. This prevents air from entering the system unless the damper is open, providing a controlled environment for utilizing Make-Up Air.

The Make-Up Air dampers are available in 5", 6", 7" and 8" diameters. The 5" and 6" sizes are complete with a plastic louver vent and integrated screen to prevent incursion by animals.

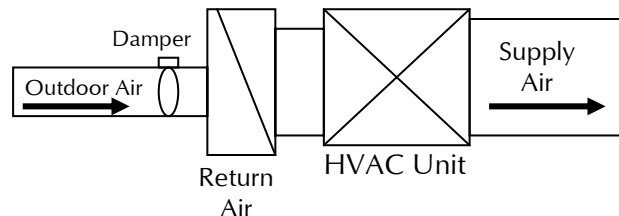
A powerful 24 Volt AC or 110 Volt AC, power open and spring closed, motor controls the damper. This low wattage motor is designed to operate off the HVAC Unit transformer or line voltage, eliminating the need for additional power source. A simple two-wire design allows the damper to be connected directly to the furnace's heating controls or with the line voltage blower motor. This wire simplifies installation and operation.

The damper is then opened every time the furnace is activated on a call for heat. The damper opens and allows outdoor air to be induced into the duct system using the furnace blower. This typically will be a small percentage of air usually less than 10%. Even when it is colder air it is mixed with the warmer return air and then heated as the furnace is on.

The outdoor air that enters through the fresh air duct helps replace some of the air that is often lost through the combustion of the furnace or vented from the house via kitchen and bathroom exhaust fans. This replacement air also helps dilute the stale indoor air, especially over the colder winter months and helps to dilute harmful gases and odors to provide a more healthy indoor air environment.



The amount of outside air brought in is determined by the size of the fresh air duct and damper in relation to the return air duct size and the blower capacity. To determine this one must be familiar with duct sizing charts. Typically smaller HVAC Systems less than 2,000 CFM would use anywhere from a 5" to 8" round diameter.



The only component needed is the Fresh Air Round Damper, Model RDF, which is the 24 Volt Round Damper, Model RDS, and the plastic louvered vent cover in the same diameter.

LIST PRICE	
RDF5	\$148.00
RDF6	\$152.00
RDF7	\$154.00
RDF8	\$158.00