FAV
Fresh Air Ventilation System

Fresh Air Ventilation Control (FAVC)

Fresh Air Damper (FAD)

Damper and Control Combo

The FAV is an intelligent, automatic, year-round ventilation system that integrates with an existing HVAC system and thermostat to meet ASHRAE 62.2 requirements.

Features

- Fresh Air Ventilation Control utilizes the central fan to supply outdoor air from a known source through a controlled duct
- Fresh Air Damper prevents infiltration during off periods

Benefits

- Delivers fresh air automatically, year round
- Creates uniform temperature and humidity in home
- Reduces heating and cooling costs
- Enhances effectiveness of media air cleaner and UV air purifiers

Exclusive Fresh Air Ventilation Control Features	
Appliance Ventilation Credit	The FAVC can monitor up to 4 appliances and apply credit from those fans. The FAVC can monitor a variety of fan types and CFM ranges, from bathroom fans and ERV/HRVs (20-225 CFM), and clothes dryer and standard kitchen range hoods (80-400 CFM), to fireplace and commercial range hoods (100-1600 CFM).
Indoor Temperature/Humidity Monitoring	The FAVC has built-in Indoor Temperature/Humidity sensor to continuously sense actual return air duct conditions. The FAVC can be installed directly to the return air plenum of the HVAC system, or it can also be installed on the wall in air closet application.
Plenum Protection & Winter Dehumidification	The FAVC continuously monitors indoor Relative Humidity in the return plenum to regulate humidity in the winter months, and to prevent humid conditions in the summer months by reducing the ventilation during periods of high dew points. The FAVC also monitors outdoor air temperature. The FAVC inhibits condensation, reducing mold and corrosion of the heat exchanger.
30 Minute Cycle Period	With a 30 minute cycle period, the FAVC introduces fresh air more frequently and regularly, which means the air is more evenly balanced and HVAC system does not have to work hard to catch up with a wide range of temperatures that can occur over a 60 minute time period.
Exclusive Fresh Air Damper Features	
Neoprene Seal	The damper uses a quiet, neoprene no-leak seal so unwanted air and humidity are controlled. The seal is tested 500,000+ cycles and meets flammability FMVSS-302 requirements.
Power Open, Power Close	The power open/power close damper means the motor uses very little power unlike competitive dampers that use a spring close/power open motor which stay fully powered during the open cycle an waste energy. Most reliable damper on the market rated over 100,000 cycles.

CFM Continuous dial

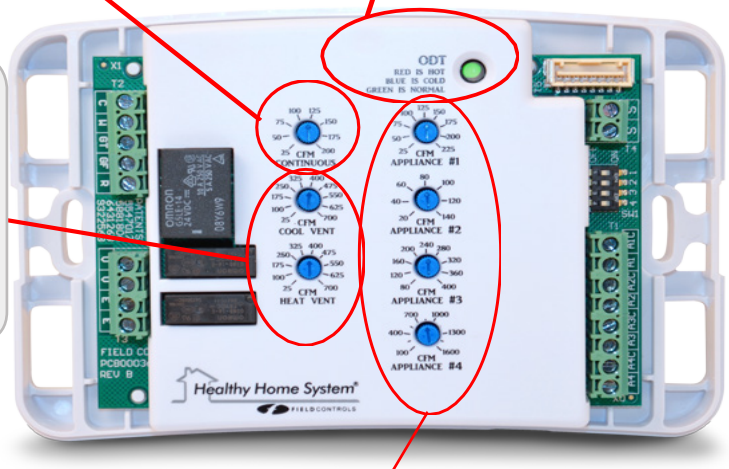
The **CFM Continuous dial** controls the continuous ventilation rate based on size of the home and number of bedrooms and is pre-set at 100 CFM.

CFM Cool/Heat Vent dial

The **CFM Cool Vent dial** and **CFM Heat Vent dial** are both preset at 400 CFM each and can be used to set the air flow rate through a Fresh Air Damper or HRV/ERV unit when central fan is running in cooling mode and heating mode.

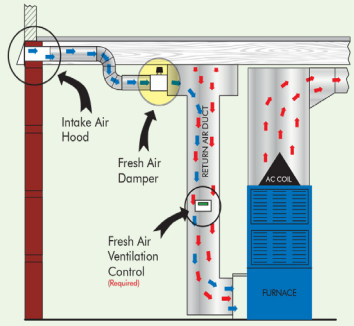
Outdoor Temperature Light

3 color ODT light indicates whether outside air temperature meets ventilation requirements or if ventilation will be limited due to temperature or humidity levels.



How It Works

The fresh Air System (FAV) is a motor driven damper activated by the Fresh Air Ventilation Control (FAVC). When there is a call for fresh air, the control opens the damper allowing fresh air to enter the HVAC return. When the control is satisfied, the damper is closed.



Optional Appliance Montoring Controls

Appliance Dial	Appliance Type	Appliance CFM	Standard Configurations	Optional Configuration
#1	Bathroom fan, HRV/ERV Unit	25-225	Offers balanced ventilation by monitoring the appliance and takes credit for ventilation requirement when appliance # 1 fan runs, preset at 75 CFM	Energy Saving Mode • Can drive appliance #1 fan in lieu of central fan • Takes credit for ventilation with damper when heating or cooling • Drives appliance #1 fanwhen additional ventilation is requires within the heating/cooling cycle • Gets energy credit when bathroom fan is used (non ECM central fan blower)
#2	Bathroom Fan	20-140	Monitors appliance # 2, preset at 75 CFM	
#3	Clothes Dryer, Standard Range Hood	80-400	Passive Make up Air Mode Opens damper when appliance # 3 is on, preset at 200 CFM	Active Make up Air Mode • Turns on central fan and opens damper when appliance # 3 runs
#4	Fireplace, Commercail Range Hood	100-160	Monitors appliance # 4, preset at 850 CFM	Active Make up Air Mode • Turns on central fan and opens damper when appliance # 4 runs

Specifications

Model	Product	Description	Voltage	Amps	Watts
FAV-4	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 4" duct	24	0.07	3
FAV-5	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 5" duct	24	0.07	3
FAV-6	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 6" duct	24	0.07	3
FAV-7	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 7" duct	24	0.07	3
FAV-8	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 8" duct	24	0.07	3
FAV-10	FAVC and FAD	Motorized, stainless steel, power open/close in 15 sec. increments, fits 10" duct	24	0.07	3

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