

# FAD Fresh Air Damper



**The Fresh Air Damper (FAD)** stands as a crucial component in maintaining optimal indoor air quality. Engineered with precision, this 24VAC motorized air damper features power-open and power-close functions, strategically designed for seamless integration into fresh air ventilation systems. Connected to an outdoor air intake hood and either a duct fan or the HVAC return plenum, its installation empowers residents to effortlessly regulate the inflow of fresh air into their living spaces.

One of the Fresh Air Dampers standout attributes lies in its adaptability and versatility. While it is commonly managed by the Fresh Air Ventilation Control (FAVC) or the Fresh Command Multifamily Control (FCMC), ensuring adherence to ASHRAE 62.2 standards and other fresh air ventilation codes, the FAD also offers standalone functionality. In this capacity, it serves as a reliable solution for both passive and fan induced fresh air scenarios, catering to various ventilation or makeup air requirements.

## Features

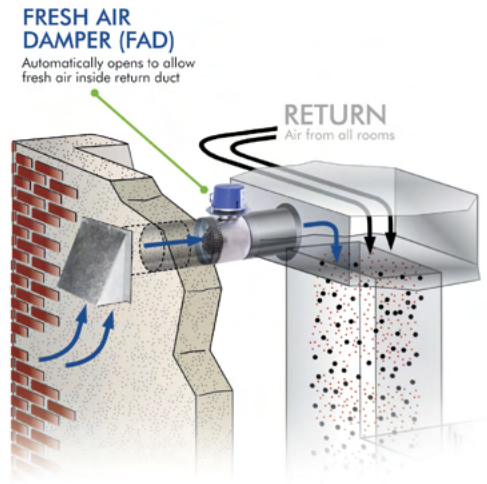
- Efficient Power-Open and Power-Close Functions
- Minimal Power Consumption
- Exceptionally Low Airflow Resistance
- Durable Stainless Steel Construction
- Resilient Closed-Cell Foam Rubber Seal, Tested for over 500,000 cycles
- Compliant with FMVSS-302 Flammability Standards for Seals
- Meets ASHRAE 62.2 and other fresh air ventilation codes

# How It Works

The Fresh Air Damper operates through a motor-driven mechanism, which is initiated by the Fresh Air Ventilation Control (FAVC). Its primary function is to regulate the flow of fresh air into the HVAC return system. Upon receiving a signal for fresh air, the FAVC triggers the opening of the damper, facilitating the intake of fresh air into the ventilation system. This ensured a continuous supply of fresh air, maintaining optimal indoor air quality. Once the FAVC detects that the desired conditions have been met, it automatically commands the damper to close, preventing further influx of fresh air. This automated process helps to achieve energy efficiency and ensures that the ventilation system operated in accordance with set parameters.

## Enhancing Indoor Air Quality

Today's energy-efficient homes, with improved insulation and tighter seals, often trap stale and unhealthy indoor air. The ASHRAE 62.2 fresh air ventilation standard aims to address this issue by ensuring sufficient air changes to enhance indoor air quality. Exhaust only fans, commonly found in bathrooms, can introduce air from potentially unhealthy sources like the garage, attic, or crawl space, creating negative pressure in the home.



FRESH AIR DAMPER MODELS								
Model	Part Number	Duct or Pipe Diameter (in.)	Volts	Amps	Watts	Dimensions		
						A	B	C
FAD-4	46590504	4	24	0.07	3	6	9 1/8	4
FAD-5	46590505	5	24	0.07	3	6	10 1/8	5
FAD-6	46590506	6	24	0.07	3	6	11 1/8	6
FAD-7	46590507	7	24	0.07	3	6 1/2	12 1/8	7
FAD-8	46590508	8	24	0.07	3	7	13 1/8	8
FAD-10	46590510	10	24	0.07	3	12 1/8	15 1/8	10
FAD-12	46590512	12	24	0.07	3	12 1/8	17 5/8	12
FAD-14	46590514	14	24	0.07	3	16	20	14
FAD-16	46590516	16	24	0.07	3	16	22	16
FAD-18	46590518	18	24	0.07	3	16	24	18
FAD-20	46590520	20	24	0.07	3	16	26	20