



FIELD CONTROLS

FRESH AIR VENTILATION



A Fresh Look at Fresh Air.

Simple. Precise. Reliable. Fresh Air Ventilation.

- Delivers fresh air automatically, year round.
- Enables system to meet ASHRAE 62.2 ventilation standard.*
- Creates uniform temperature and humidity throughout the home.
- Enhances effectiveness of whole house filtration and air purification.



The Fresh Air System

Your home needs to be energy efficient.

It also needs fresh air. Efforts to make your home more energy efficient such as replacing windows and doors, adding insulation, and applying sealants will reduce natural air exchange with the outdoors. The result is compromised indoor air quality with increased concentrations of airborne bacteria, mold, viruses and other allergens.

To address indoor air quality, fresh air ventilation is recommended by HVAC engineers and is prescribed in ASHRAE standard 62.2. In many states, fresh air ventilation is required to meet building codes for new construction or to obtain energy tax credits in existing homes. The FAS Fresh Air System from Field Controls meets these requirements by delivering fresh air automatically and efficiently. The FAS includes proven components for simple, reliable, fresh air delivery for improved indoor air quality.

Fresh Air Control

It's important to deliver fresh air in a way that maintains energy efficiency. The Field Controls Fresh Air System does just that, providing tempered, fresh air using the existing air handler and duct system. The AirCycler® Fresh Air Control operates the HVAC system blower to deliver fresh air throughout the entire home. The FAC is set by the contractor and works independently of the thermostat, providing better control and more consistent operation.



FAC

Fresh Air Damper

Our Fresh Air Damper remains closed until instructed to open by the Fresh Air Control. It then opens to allow fresh air to be pulled into the return plenum where it is mixed with conditioned air, filtered, and distributed to the rest of the house.



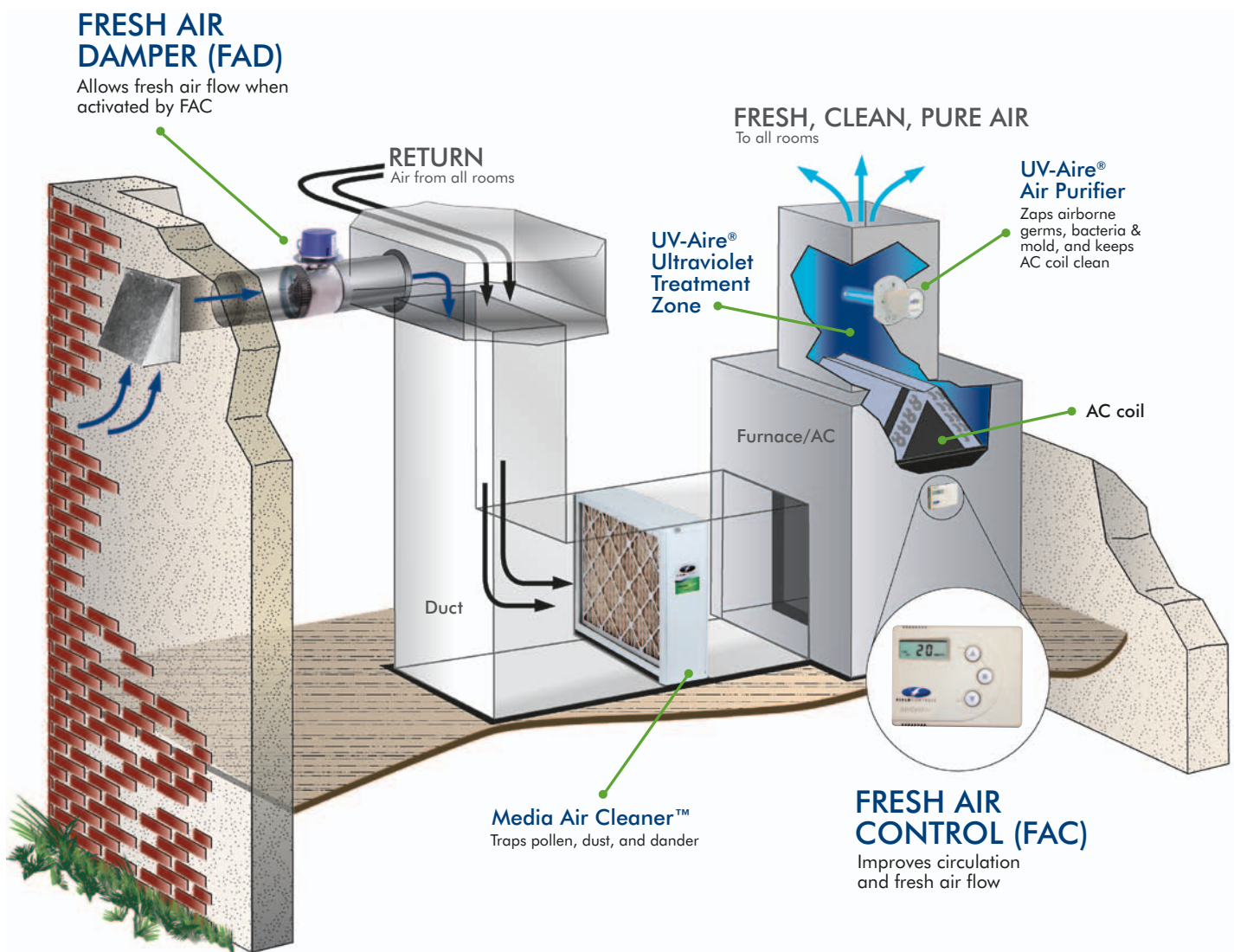
FAD

*The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) has determined how much fresh air is needed to provide an acceptable level of indoor air quality, specified in ASHRAE Standard 62.2, which states that we need to provide 7.5 cfm of fresh air per bedroom, plus the ability to get an additional 0.01 cfm of fresh air per square foot of floor area.

How it Works

The AirCycler Fresh Air Control monitors the central HVAC system and activates the Fresh Air Damper and the central system fan when fresh air is needed in the home. The FAS ensures better temperature and humidity control by enhancing air circulation during and between heating/cooling cycles. The AirCycler knows when the central

system fan operates and uses the normal operating cycles to supply fresh air without added energy use. During periods when the central system is not operating, the AirCycler activates the system fan, providing effective, efficient fresh air ventilation all year round.



For a whole house solution that cleans and purifies the air, ask about the Field Media Air Cleaner and the UV-Aire® Air Purifier. Ask for the Indoor Air Quality Guide (form #4283) wherever Field products are sold.

Fresh Air Ventilation Specifications

The Field Controls Fresh Air System (FAS-1) combines the AirCycler® Fresh Air Control (FAC) with the 6" Fresh Air Damper (FAD-6).



Fresh Air System							
Model	Product	Features	Voltage	Amps	Hz	Watts	Part No.
FAS-1	Fresh Air Control	Fan ON and OFF delay settings Vent ON and OFF delay settings 1-199 minutes in 1 minute increments, plus an unlimited setting for both ON and OFF.	24	0.07	-	-	46590600
	Fresh Air Damper Fits 6" duct or pipe size	Stainless steel construction, providing superior corrosion resistance. Power open/close in 15 sec.	24	-	60	3	

Notes: The AirCycler ON/OFF function enables or disables the fan recycling function, but all thermostat control signals operate regardless of the switch position. All outputs protected by a 3A self-resetting fuse, impossible to damage with wiring errors.

Fresh Air Products							
Model	Product	Description	Voltage	Amps	Hz	Watts	Part No.
FAC	Fresh Air Control	AirCycler	24	0.07	-	-	46590400
FAD-4	Fresh Air Damper	Fits 4" duct or pipe size	24	-	60	3	46590504
FAD-6	Fresh Air Damper	Fits 6" duct or pipe size	24	-	60	3	46590506
FAD-8	Fresh Air Damper	Fits 8" duct or pipe size	24	-	60	3	46590508
FAD-10	Fresh Air Damper	Fits 10" duct or pipe size	24	-	60	3	46590510
AFI-6	Air Flow Indicator	6", indicates cfm	-	-	-	-	46590900
SEC	SmartExhaust	Programmable control for exhaust fans	120	-	-	-	46591000



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Field Controls, LLC 2630 Airport Road Kinston, NC 28504 TEL: 252.522.3031 FAX: 252.522.0214