

HEALTHY HOME
GUIDE



IAQ PRODUCTS AND SOLUTIONS



FIELD CONTROLS

Ask about our other Reference Guides & Selling Tools

Healthy Home iAQ App The *Ultimate* Selling System for the *Ultimate* IAQ System!

Available for Apple and Android smartphones and tablets, the Healthy Home iAQ app is a powerful, versatile new tool for the contractor.



Commercial Air Quality Guide

Includes our comprehensive, state-of-the-art system, that is customizable and scalable for new and retrofit HVAC installations. Packaged modular solutions, customizable panels for virtually any commercial application.

Residential Ventilation Guide

This guide will introduce you to our full line of ventilation options available to home builders and HVAC contractors. It provides reliable, practical, and proven ventilation that meets codes and satisfies homeowners' expectations for comfort, safety, and energy efficiency. It includes models, specifications, wiring diagrams, and much more.



Contractor Reference Guide

For the latest in venting, combustion, and draft control, ask for the Field Contractor Reference Guide. Your guide for product information, specifications, installation, wiring, and replacement parts.

Healthy Hearth Guide

A hearth needs to be healthy, too! For products that improve efficiency, save fuel, and add to the aesthetic value of your hearth, ask for the all new Healthy Hearth Guide.



FIELD CONTROLS

fieldcontrols.com

Table of Contents



Since 1927, our focus has been the control and movement of air. We lead the industry in the fields of indoor air quality, venting, combustion, and draft control. This is your guide for everything you need to keep your customer's air **FRESH, CLEAN, and PURE.™** For specific installation manuals and more information, visit www.fieldcontrols.com.

Thank you for specifying Field Controls.



Introduction **2-7**

Healthy Home iAQ App 6-7

Control **8-9**

Healthy Home System™ Control 8-9

Fresh **10-15**

Fresh Air Ventilation 10

Dampers 11

Fresh Air System™ 12-13

Heat Recovery Ventilators (HRV) 14

Energy Recovery Ventilators (ERV) 15

Clean **16-21**

Media Air Cleaner™ 16-19

FlexFilter® 20-21

Pure **22-35**

How UV Works 22

FlexMountUV™ 23

UV-Aire® In-Duct Models 24-25

Healthy Home Duo 26-27

Healthy Home Trio 28-29

Cube 30-31

UV-Aire® Product Selection Guide 32-33

UV Testing 34-35

UV-Aire® Portable Models **36-37**

More **38-39**

Humidifiers 38

Smart Exhaust™ 39

Eliminator® Foundation Vent Fan 39

Models & Specs **40-41**

Wiring Diagrams **42-45**

Replacement Parts **46-49**

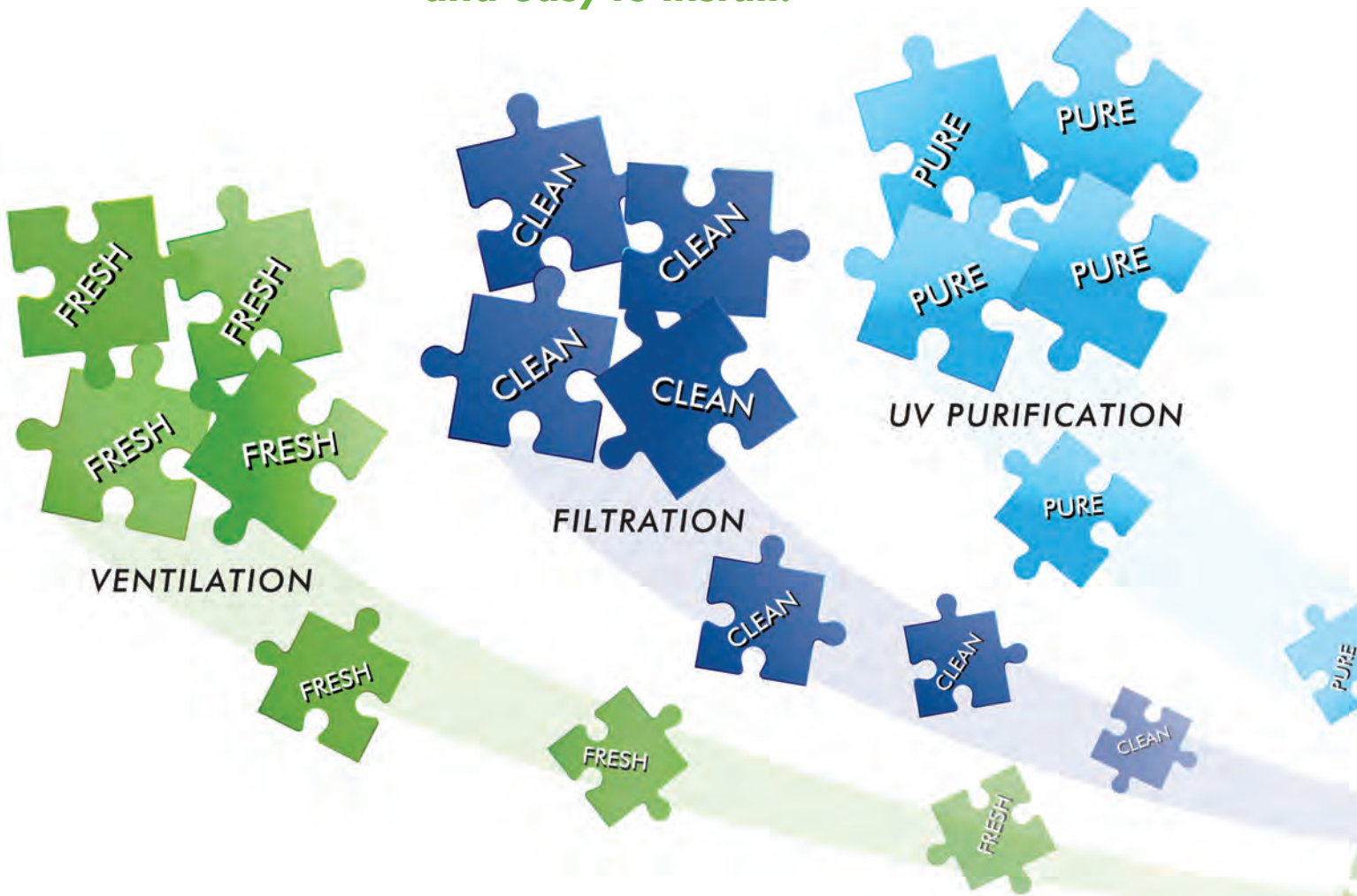
Installation Options **50-51**

Performance Charts **52-55**



FIELD

There are **6,172** ways to
improve Indoor Air Quality
in this guide **and ONE system**
that **makes it easy** to
understand, easy to sell,
and easy to install.



CONTROLS

Solving the Puzzle of Indoor Air Quality.

Everyone needs air that is **FRESH, CLEAN, and PURE™**. But every home is different and every region of the country is different. The Healthy Home System™ is the only indoor air quality system that is versatile enough to adapt to any home, any region, and any system.

We offer the most complete line of UV purification, filtration, and ventilation products on the market. The Healthy Home System Control brings all the components together. Our new Healthy Home iAQ App allows you to quote Good, Better, Best, and Premium options and customize the system to meet your customers' needs and budget.

The Healthy Home iAQ App. The Ultimate Selling System.

This iAQ app is an excellent tool for you to educate your team and your customers about IAQ and the benefits of the Healthy Home System. You can use it to configure a custom system for each customer, show them options, quote prices, and present a proposal...all from the convenience of your Apple or Android device.



Now with **in-app Quoting and Proposals!**



INTRODUCTION

Introducing the Healthy Home System™ from Field Controls.

Field Controls has developed the premier system that simply and inexpensively transforms the heating and cooling system in any home into a Healthy Home System. The Healthy Home System goes beyond traditional technology to ensure air that is **FRESH**, **CLEAN**, and **PURE**.™

Creating a custom Healthy Home System is easy. Start with a Healthy Home System Control and select the appropriate Fresh Air Damper, Media Air Cleaner™, and UV-Aire® model for your heating and cooling system.



Healthy Home System™ Control



FRESH
Fresh Air Ventilation

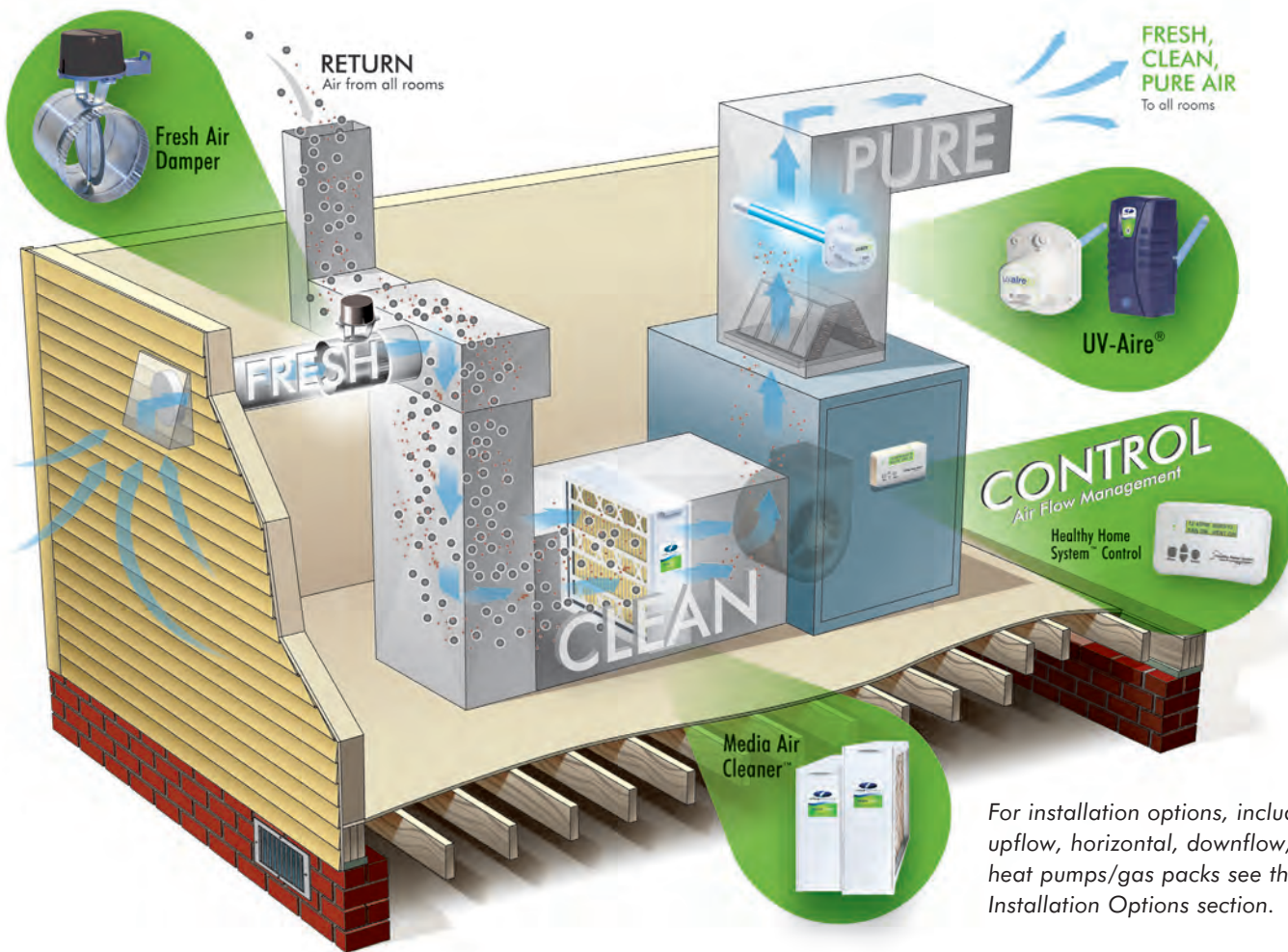


CLEAN
Clean Air Filtration



PURE
UV-Aire® Purification

It's the **Control** that makes it a **System!**



Healthy Home System™



Healthy Home iAQ App

INTRODUCTION

The Ultimate Selling System

The Healthy Home iAQ app is a powerful, versatile new tool for the contractor and the homeowner.



Educate your team and your customers about IAQ and the benefits of the Healthy Home System. You can use it to configure a custom solution for each HVAC system, show options, quote prices, and present a proposal...all from the convenience of your Apple or Android device.

Custom Pricing
Enhanced Quoting
Custom Proposals



Healthy Home App



Contractor Benefits	 Features	Homeowner Benefits
Video tool that demonstrates the Healthy Home System™	Healthy Home Demo	Explains the need for better air and the benefits of the Healthy Home System™
Rates indoor air quality in home, shows benefits of Healthy Home System™	Indoor Air Quality Scorecard	Rates indoor air quality in each home
Determines the recommended product(s) needed for each home	System Selector Tool	Recommends custom options for each home
Provides homeowner with direct contact info for future service calls	Contractor Info	Stores contractor information
Receive automatic notifications to replace filter and/or lamp	UV Lamp/Filter Alert	Monitors lamp and filter replacement, sends email reminders
Add logo and customize pricing for easy quotations	Custom Quoting	Displays pricing for good, better, best, and premium options. Allows customer to select and approve
All proposals are saved in the app so they can be easily located and managed by the contractor	 Proposal Database	Homeowner quote information is stored for future use

Healthy Home iAQ App

INTRODUCTION

INTERACTIVE, INTUITIVE, INSTRUCTIVE

The app's homescreen provides local weather, air quality, lamp, and filter status.



For iPads & Tablets



Healthy Home Demo

Explains the need for **FRESH, CLEAN, and PURE™** air and demonstrates how the Healthy Home System works.



Indoor Air Quality Scorecard

Helps the homeowner evaluate their need for a Healthy Home System.



System Selection

Allows the contractor to configure a custom system for each homeowner.



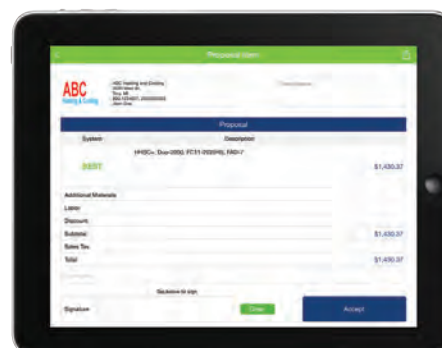
System Quotation

Allows the contractor to customize and instantly quote a system.



UV Lamp/Filter Alerts

Can automatically email the contractor when the lamp and/or filter needs to be replaced.



Proposals

Finalizes quotes and creates customized paperless proposals.

For Ventilation and IAQ Control

The Healthy Home System Control intelligently manages the central fan to provide fresh air ventilation and maximize the benefits of the Healthy Home System. This full featured control is now easier to install and set up, provides more options and better feedback. It's the easiest, most cost effective way to ensure the air in the home is **FRESH, CLEAN, and PURE**...even when not heating or cooling.

How It Works

Filters and air purifiers only work when the furnace or air conditioner is operating. The Healthy Home System Control monitors the central fan activity and engages the fan on a regular schedule to keep air that is **FRESH, CLEAN, and PURE** circulating throughout the entire home even during times when not heating and cooling. The Healthy Home System Control is set by the contractor and works independently of the thermostat, providing better control and more consistent operation.

It's the **Control** that makes it a **System!**



HHSC+

CONTRACTOR Benefit	Features	HOMEOWNER Benefit
Utilizes central fan for supply ventilation	Controls and monitors central fan	Lower cost of installation and operation
Certifies damper operation to meet ASHRAE 62.2	Fresh Air Damper monitor and control	Automatic fresh air ventilation
Filter timer/change reminder	Filter monitor	Filter timer/change reminder
UV lamp timer/change reminder	UV lamp monitor	UV lamp timer/change reminder
Current sensor detection (range hood, fireplace, laundry, bath fan)	Auxiliary input	Responds to call for additional fresh air from CO ₂ sensor and other devices
24 Volt output for second damper for balanced ventilation	Auxiliary output	Balanced ventilation
Easy to set up and customize	Programmable clock/calendar	User-friendly interface
Instant diagnostic feedback	Diagnostic notification display	Automatic status updates
Dewpoint/Enthalpy control	E-Sensor™ accessory	Increased comfort and improved energy efficiency

Healthy Home System™ CONTROL

CONTROL

Fresh Air Ventilation

Opens damper on a schedule that coincides with central fan operation for **fresh air ventilation**.



Media Air Filtration

Circulates air on regular schedule to **reduce dust, pollen, and dander**. Includes filter change alert.



UVC Air Purification

Circulates air on a regular schedule to **neutralize and reduce mold, bacteria, viruses, and fungi**. Includes lamp change alert.



Central Fan Control

Monitors and **engages** the central system fan on a regular schedule to **keep air circulating** throughout the home.



PLUS

Auxiliary Output

Can **activate** auxiliary fans, such as **bathroom and booster fans**, to exhaust stale air while bringing in fresh air for balanced ventilation.



Auxiliary Input

Can **engage** fan and open fresh air damper to provide additional fresh air ventilation in response to **CO₂ sensors, current sensors, dryers, gas fireplace logs, range hood fans, wall timers**, and other auxiliary devices.



E-Sensor™ Accessory

Can **prevent** fresh air damper from opening when the **E-Sensor™ enthalpy control** detects that outside air is too hot, too cold, or too humid.



Fresh Air Ventilation. Who needs it?




We do. Every home needs fresh air, too. Efforts to make homes more energy efficient prevent fresh air from entering the home and can lead to compromised air quality and appliance inefficiency. Weather stripping, caulk, sealants, and moisture barriers such as Tyvek® tighten the home, reducing air changes and locking stale air inside. Plus, when a home can't breathe, laundry dryers, range hood fans, and bathroom fans take more time to do their jobs, wasting precious energy.

The lack of fresh air ventilation has become such a problem, HVAC engineers have developed a new standard (ASHRAE 62.2*) specifying the minimum air changes needed in any given residence. 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 Field Controls Fresh Air System™ meets these requirements by delivering fresh air automatically, year round.

FRESH

Ventilation Systems Comparison

	 Fresh Air System™ FAS-6 (CFIV**)	 HRV/ERV	 Exhaust (Bathroom & kitchen fan, clothes dryer)
Cost to operate	Low	Low	Low
Cost to install	Low	High	Low
Source	Known source of clean air	Known source of clean air	Uncontrolled source relies on leaks of contaminated air from crawl spaces, attics, garages, etc.
Air distribution	Tempered and treated air is distributed through the entire home	Balanced ventilation	Hot and cool untreated air is locally delivered
Other	Enhances filtration and UV systems	Controls moisture buildup	May cause house to go negative

**Central Fan Integrated Ventilation

*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 62.2-2010, 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.

Fresh Air Damper



FAD – Fresh Air Damper
Requires HHSC+ for activation

Features

- Durable, stainless steel construction
- Motorized
- Energy efficient operation
- Reliable, proven design
- Remains closed when fresh air is not needed

Make-Up Air Damper



MAS – Make-Up Air Damper
Functions with or without the HHSC+

Features

- Adjustable gate provides precise air flow control
- Pressure Activated
- Easy to read air flow gauge
- No electricity required
- 24 gauge aluminum coated steel
- Corrosion resistant and paintable
- Intake air hood included
- Quiet operation

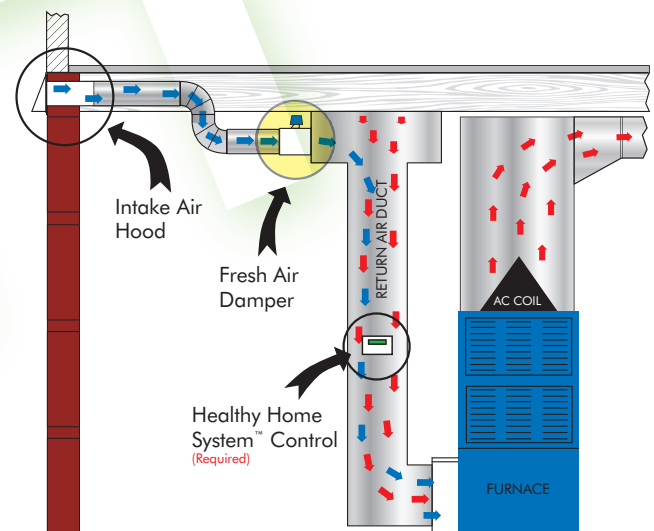
Technical Service: 800.742.8368 • fieldcontrols.com

The Healthy Home System™ Control intelligently manages the central fan, allowing the Fresh Air Damper to provide **FRESH** air in the home all year round... even when not heating or cooling.



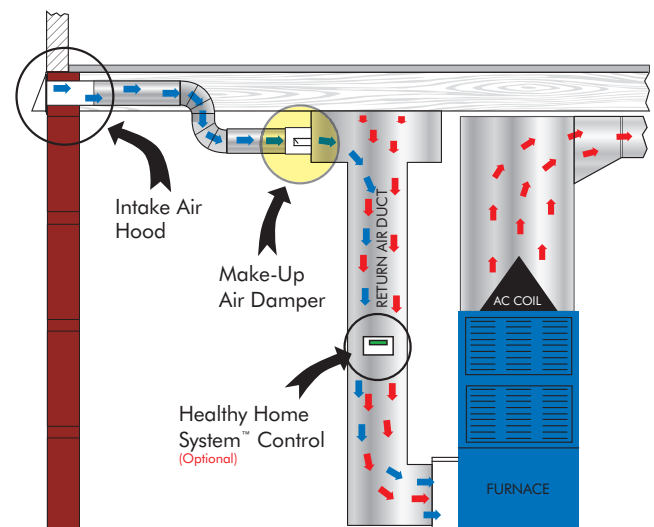
How It Works

The Fresh Air Damper (FAD) is a motor driven damper activated by the Healthy Home System Control. When there is a call for fresh air, the HHSC+ opens the damper allowing fresh air to enter the HVAC return. When the HHSC+ is satisfied, the damper is closed.



How It Works

The Make-Up Air System (MAS) is a pressure activated damper that opens whenever the central fan is on. It closes automatically when the fan is turned off. The adjustable gate provides precise control of air flow based on the needs of the structure.



FRESH

Whole House Ventilation

The Fresh Air System (FAS) meets ASHRAE 62.2 standards by delivering fresh air automatically and efficiently. The FAS includes proven components for simple, reliable, fresh air delivery for improved indoor air quality.



FAS – Fresh Air System

Choosing the Right Vent Damper

- Step 1:** Use Table 1 to determine the CFM requirements for the home. To program the HHSC+ to ventilate 33% of the time, multiply by 3. To ventilate 50% of the time, multiply by 2.
- Step 2:** Measure static pressure at the return intake.
- Step 3:** Calculate equivalent feet of duct between the fresh air inlet and the central fan. Use Tables 2 and 3.
- Step 4:** Using Table 4, find static pressure column. Match the CFM rate equal to or greater than the CFM required under the appropriate duct type and length. The correct damper model is in the column to the left. When in doubt, use the next larger damper.

Example:

- (1) A three bedroom, 2,000 square foot house requires 150 CFM with a damper that is open twenty minutes every hour.
- (2) Static pressure in the return is .05 wc.
- (3) The system has 20 equivalent feet of smooth duct.
- (4) The FC-8 Fresh Air Damper delivers 150 CFM in smooth duct at 30 equivalent feet and would be the appropriate damper for this system.

Table 1: ASHRAE CFM Requirements*

Sq. Ft.	Bedrooms				
	1	2	3	4	5
1,000	25	32.5	40	47.5	55
1,500	30	37.5	45	52.5	60
2,000	35	42.5	50	57.5	65
2,500	40	47.5	55	62.5	70
3,000	45	52.5	60	67.5	75
3,500	50	57.5	65	72.5	80

*ASHRAE 62.2 Ventilation Standards assumes one person for each bedroom, plus one more. If the fan is engaged twenty minutes per hour, multiply this number by 3.

Table 2: Equivalent Feet for Vent Pipe Fitting

Vent Pipe Fittings	Vent Pipe Diameter									
	3"	4"	5"	6"	7"	8"	9"	10"	12"	14"
Tee	19	25	31	38	44	50	56	63	75	89
Y-Connection	10	13	16	20	23	26	29	32	39	45
90° Elbow	5	7	9	11	12	14	16	18	21	25
45° Elbow	3	4	4	5	6	7	8	9	10	13

Table 3: Equivalent Feet for a Reducer/Inceaser

		Small Pipe Size									
		3"	4"	5"	6"	7"	8"	9"	10"	12"	14"
Large Pipe Size	3"	0									
	4"	2	0								
	5"	4	2	0							
	6"	5	4	2	0						
	7"	6	5	4	1	0					
	8"	7	7	6	3	2	0				
	9"	7	8	7	5	4	2	0			
	10"	8	8	8	6	6	4	2	0		
	12"	8	10	10	8	9	8	6	4	0	
	14"	9	10	12	10	12	11	9	8	3	0
	16"	9	11	12	11	14	13	13	11	8	3
18"	9	11	13	12	15	15	15	14	11	7	
20"	9	12	14	13	16	17	17	17	15	11	

To estimate the equivalent feet length of the Reducer/Inceaser chart, find the figure at the intersection of the small pipe size and the large pipe size.

FRESH

Calculating Equivalent Feet of a Fresh Air Intake System

How to determine total equivalent feet

- Step 1:** Determine the total equivalent feet for each type of fitting used in the system from [Tables 2 and 3](#).
- Step 2:** Calculate the total feet for the straight lengths of pipe.
- Step 3:** Add the equivalent feet of the fittings to the total amount of feet of straight length pipe. This will approximate the total equivalent feet of the fresh air intake system.
- Step 4:** Find your total equivalent feet in [Table 1](#) to determine the proper model for your installation.

Example: System Pipe Size= 6"

(1) 2-90° Elbows (6")= 22 Ft.

(2) 10-2 Ft. Lengths of 6" Pipe= 20 Ft.

(3) Total Equivalent Feet= 22 Ft. + 20 Ft. = 42 Ft.

Table 4: Fresh Air Damper Sizing Chart

Negative Return Air Static Pressure		0.025		0.05		0.1		0.15		0.2		0.25		0.3		0.35	
		CFM															
Damper & Intake Hood	Equivalent Ft. of Duct Length	Flex	Smooth	Flex	Smooth	Flex	Smooth	Flex	Smooth	Flex	Smooth	Flex	Smooth	Flex	Smooth	Flex	Smooth
		FC-4 inch Fresh Air Damper 4" Intake Hood	10	23	28	32	40	45	57	56	70	64	80	72	90	79	98
30	19		23	26	33	37	47	46	57	53	66	59	74	65	81	70	88
50	16		20	23	29	33	41	40	50	46	58	52	64	57	71	61	76
FC-5 Inch Fresh Air Damper 6" Intake Hood	10	38	48	54	67	76	95	94	117	108	135	121	151	132	165	142	178
	30	32	40	45	56	64	80	78	97	90	113	101	126	110	138	119	149
	50	28	35	39	49	56	70	68	85	79	99	88	110	97	121	104	130
FC-6 inch Fresh Air Damper 6" Intake Hood	10	51	64	72	90	102	128	126	157	145	181	162	202	177	221	191	239
	30	45	56	63	79	89	111	109	136	126	157	141	176	154	193	166	208
	50	40	50	57	71	80	100	98	122	113	141	126	158	138	173	150	187
FC-7 inch Fresh Air Damper 8" Intake Hood	10	87	109	123	154	174	218	213	266	246	308	275	344	301	377	326	407
	30	73	91	103	129	146	183	179	224	207	258	231	289	253	316	273	342
	50	64	80	91	113	128	160	157	196	181	227	203	254	222	278	240	300
FC-8 inch Fresh Air Damper 8" Intake Hood	10	98	123	139	174	197	246	241	301	278	348	311	389	341	426	368	460
	30	87	109	123	154	174	218	214	267	246	308	275	344	302	377	326	407
	50	79	99	112	140	158	197	194	242	223	279	250	312	274	342	295	369
FC-10 inch Fresh Air Damper 10" Intake Hood	10	148	185	210	262	297	371	363	454	420	525	469	586	514	642	555	694
	30	135	169	191	239	270	338	331	414	382	478	427	534	468	585	506	632
	50	125	156	177	221	250	312	306	383	354	442	395	494	433	541	467	584

.05 are new modulating appliance parameters. 0.1 are the traditional appliances. Once the design gets out of range additional electrical consumption begins to take place.

Rule of Thumb Method

These may be appropriate for homes with average duct runs up to 15 ft. with mid-range static pressure. We recommend that you double check your results using the standard method illustrated on the previous page. It's important to size the damper and system to meet ASHRAE 62.2. If you have additional questions, contact technical service.

1,500 to 2,000 sq. ft. - FC-6
 2,500 to 3,000 sq. ft. - FC-7
 3,000 to 3,500 sq. ft. - FC-8

Locating the Fresh Air Inlet

Locate the air intake hood at least 3 ft. (36") from the ground and 10 ft. horizontally from any gas or oil burner or any source of combustion gases or fumes. Locate at least 10 feet horizontally from garbage cans or other sources of odors. Always use a vent hood with an integrated grate to prevent birds and small animals from entering the duct.

Heat Recovery Ventilator

The Healthy Home System™ Control intelligently manages the central fan and the HRV/ERV to provide **FRESH** air in the home all year round...even when not heating or cooling.



The Ultimate Solution for Fresh Air

The gold standard in Fresh Air Ventilation is HRV/ERV technology. With Heat Recovery Ventilation (HRV) and Energy Recovery Ventilation (ERV), the homeowner realizes maximum energy efficiency, a balanced approach to fresh air, and additional benefits such as humidity control. HRV is recommended for colder climates and ERV is recommended for hot, humid climates. See the map below for more details. Both can be independently ducted or integrated into the ductwork of the forced air system (new or retrofit) and both work 24/7 to ensure a steady flow of fresh air in the home.

FRESH

Heat Recovery Ventilation (HRV)

The unique dual-stream airflow design of Field Controls' HRV keeps outgoing stale air separate from incoming fresh air and completely rejuvenates the air throughout your entire home up to eight times a day.

Our balanced ventilation technology replaces indoor stale air with an identical amount of fresh air. This balanced ventilation is also critical to prevent moisture build-up during the heating season which can lead to expensive rot damage and hazardous mold.

The Field HRV features a patented aluminum core which efficiently transfers heat from outgoing stale air to incoming fresh air. Our HRV lets you enjoy an energy efficient home without breathing harmful indoor fumes from paint, plastics, carpets, adhesives, and household products, or lingering pet odors or moisture that cause mold.

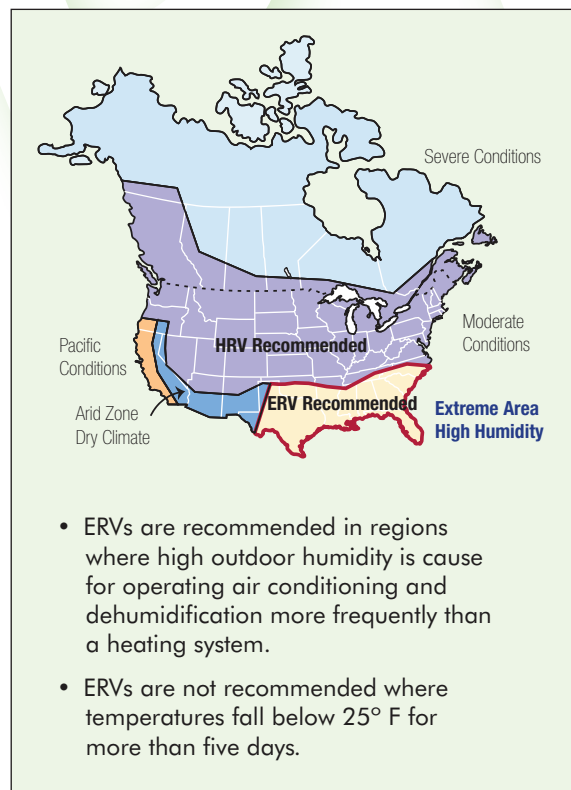
Fresh Air Quality and Energy Efficiency

Because of the unique ability of an HRV to transfer the temperature of indoor stale air to the incoming fresh air, you'll realize lower heating and cooling costs year round while enjoying all the benefits superior indoor air quality delivers. In fact, the efficiency of the Field Controls HRV is so great that very little of the warmth collected from your home in winter is lost to the outside. In summer, the HRV works in reverse by removing heat from the incoming air and transferring it to the outgoing air, keeping your home cool and fresh.



Benefits

- Replaces stale air up to 8 times a day
- Maintains a balanced system, exchanging identical amounts of stale air for fresh
- Conserves energy by transferring heat or cool to incoming air
- Helps prevent moisture buildup during heating season
- Three models to choose from
- Ideal for colder climates of the Midwest and Northeast



- ERVs are recommended in regions where high outdoor humidity is cause for operating air conditioning and dehumidification more frequently than a heating system.
- ERVs are not recommended where temperatures fall below 25° F for more than five days.

Energy Recovery Ventilator

Energy Recovery Ventilator (ERV)

Nearly 90% of the energy used to cool a home is required to remove humidity. With the Field ERV, humidity is removed from the air before it is brought into the home – greatly reducing cooling costs. The Field Controls ERV uses membrane technology to transfer moisture and energy and our new, water-washable core is constructed with a non-cellulose material that will not deteriorate with moisture.

Benefits

- Replaces stale air up to 8 times a day
- Removes humidity from outside air
- Maintains a balanced system, exchanging identical amounts of stale air for fresh
- Conserves energy by transferring heat or cool to incoming air
- Ideal for warm, humid climates
- Only water-washable ERV core available
- Maintenance-free, energy efficient motor
- Most efficient ERV available



FC150ERV

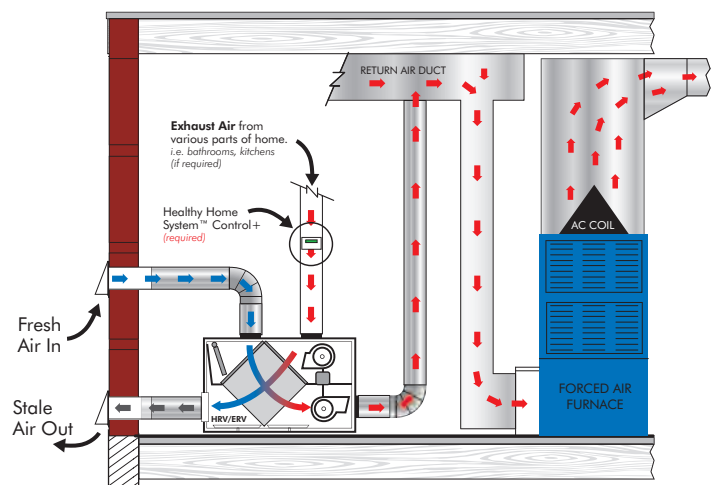
FRESH

Example: This diagram illustrates how HRV/ERV transfers energy during the heating season.



How HRV/ERV Works

Fresh outdoor air is drawn into the HRV/ERV. The air is tempered (heated or cooled) as it passes through the core. Humidity is removed in ERV units. The tempered air is then distributed throughout the house via the HVAC ductwork. Stale air is circulated back to the HRV/ERV. As it passes through the unit, the heat/cool is extracted from the air and is used to temper the incoming air. The stale air is expelled outside. The system is 100% balanced. It expels the identical amount of air that is drawn into the home. Fresh air is cycled through the entire home up to 8 times per day.



Media Air Cleaner™

WHOLE HOUSE FILTRATION

Media Air Cleaner™

The Media Air Cleaner is a whole house air filtration system that combines minimum maintenance with maximum air cleaning capacity. As part of the Healthy Home System, the Media Air Cleaner works with the Healthy Home System Control to **CLEAN** the air in the home all year round...even when not heating or cooling.



Three sizes available
(20" x 25", 16" x 25", 20" x 20")

Right Angle Model

The new HeavySeal™ feature is designed to create a super-tight envelope focusing air to and through the filter. The HeavySeal™ passes the duct blast test (at 25 pascals/ .1 inches water column) and reduces leakage as low as 2.0 CFM.

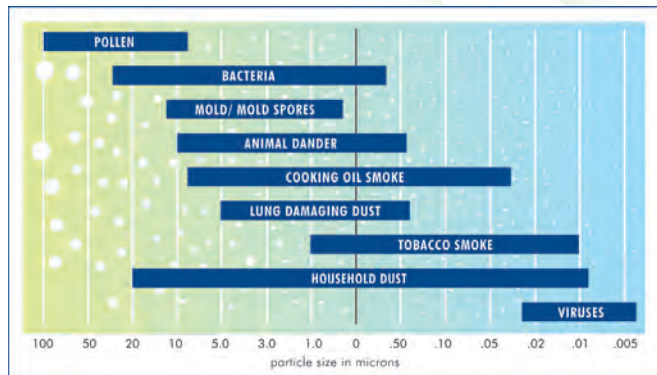
Whole house air filtration

Field Controls Media Air Cleaners install in the return duct of virtually any forced air heating or cooling system...gas, oil or electric. As air flows through the system, the Media Air Cleaner traps particles as small as 1.0 micron*, including pollen, dust, and dander.

High capacity. Minimum resistance

Field Controls MERV** pleated media filter contains enough air cleaning capacity to clean air for months without restricting air flow or putting a strain on the air handling system. Our filter media is electrostatically "supercharged" for better efficiency and longer service life. It is moisture resistant and will not support the growth of bacteria or other microbes.

Indoor Air Pollution Particle Sizes



* One micron= .000039 inches

** MERV (Minimum Efficiency Reporting Value)

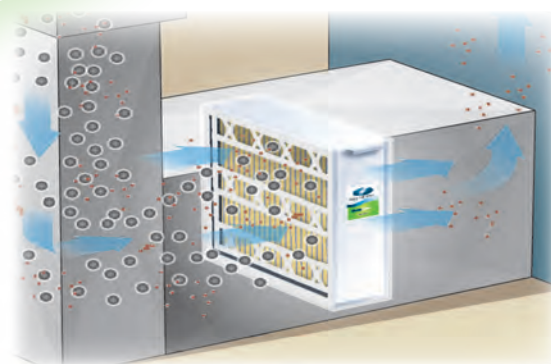
Features

- Super Tight HeavySeal™
- Contractor installation and easy media filter replacement
- Installs into ducted central heating and air conditioning system
- High efficiency MERV 8 or 11 filter traps particles as small as 1.0 micron, including pollen, dust, mold, and dander
- Meets ANSI/ASHRAE 52.2 standards
- Robust heavy duty metal construction
- Perfect for any residential or commercial forced air heating or cooling system up to five tons

How It Works

The Field Controls Media Air Cleaner cabinet is installed in the return air duct of the forced air system prior to the furnace and air handler. As air passes through the system, airborne particles are trapped within the filter media.

Unlike traditional filters, our Media Air Cleaner is able to trap up to 100 times more while maintaining efficiency and arrestance ratings in compliance with ASHRAE Standard 52.2.



Media Air Cleaner™

WHOLE HOUSE FILTRATION

Custom Colors Now Available*

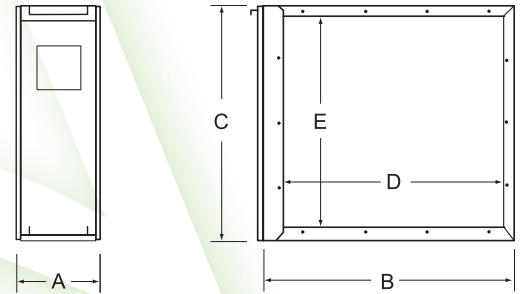
We now offer custom paint colors for our Media Air Cleaner cabinets. Choose from colors that match OEM equipment throughout the industry.

Available custom colors: Equipment Grey (Ducane, Carrier, Rheem), Appliance Matte Grey (Armstrong, Daikin), Goodman Grey (Amana), Trane Green, Bryant Tan, Universal White, York Champagne (Luxaire, Coleman) and Galvanized Only.

**Built to order, allow 3-4 weeks for delivery. Minimum order required, call for details.*

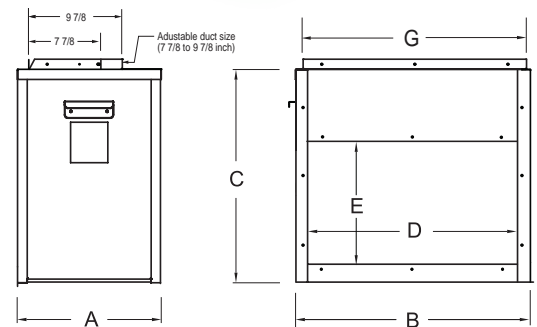


The Healthy Home System™ Control intelligently manages the central fan, allowing the Media Air Cleaner to **CLEAN** the air in the home all year round...even when not heating or cooling.



FC8 AND FC11 MEDIA AIR CLEANER CABINET

Cabinet Dimensions (inches)					
Model	A	B	C	Duct Opening	
				D	E
FC8-2025HS	7 1/8	24 3/8	21 3/8	21 7/16	19 3/8
FC8-1625HS	7 1/8	24 3/8	17 3/8	21 1/2	15 3/8
FC11-2025HS	7 1/8	24 3/8	21 3/8	21 7/16	19 3/8
FC11-1625HS	7 1/8	24 3/8	17 3/8	21 1/2	15 3/8
FC11-2020HS	7 1/8	20 3/4	21 3/8	17 13/16	19 3/8
FC11-1625T3HS	4 3/8	24 3/8	17 1/8	21 5/8	15 1/16
FCRA11-2025	15 11/16	25 11/16	23 7/16	22 7/8	13 3/8



FCRA11-2025 RIGHT ANGLE CABINET

MEDIA AIR CLEANER™ REPLACEMENT KITS

Field Controls

MODEL	MERV	DESCRIPTION	SIZE (inches)	PART NO.
FCRM8-1625	8	Replacement Media - 3 Pack Filter Kit	16 x 25 x 5	46585900
FCRM8-2025	8	Replacement Media - 3 Pack Filter Kit	20 x 25 x 5	46586000
FCRM11-1625	11	Replacement Media - 3 Pack Filter Kit	16 x 25 x 5	46568500
FCRM11-2020	11	Replacement Media - 3 Pack Filter Kit	20 x 20 x 5	46607000
FCRM11-2025	11	Replacement Media - 3 Pack Filter Kit	20 x 25 x 5	46568600
FCRM11-1625/3ABC	11	Replacement Media for Trion Air Bear Cub - 3 Pack Filter Kit	16 x 25 x 3	46656600



Honeywell™

FCRM11-2025/4HW	11	Replacement Media for Honeywell 3 Pack Filter Kit	20 x 25 x 4	46656700
FCRM11-1625/4HW	11	Replacement Media for Honeywell 3 Pack Filter Kit	16 x 25 x 4	46656800
FCRM11-2020/4HW	11	Replacement Media for Honeywell 3 Pack Filter Kit	20 x 20 x 4	46656900
FCRM11-1620/4HW	11	Replacement Media for Honeywell 3 Pack Filter Kit	16 x 20 x 4	46657000







What is MERV?

Minimum Efficiency Reporting Value, commonly known as MERV** rating, is a measurement scale designed by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) to rate the effectiveness of air filters. The scale provides a consistent reference point for HVAC professionals and a filtration effectiveness guide for home and building owners.

The scale is designed to represent the expected performance of a filter when dealing with particles in the range of 0.3 to 10 microns. The MERV rating is from 1 to 16. Higher MERV ratings correspond to a greater percentage of particles captured on each pass, with a MERV 16 filter capturing more than 95% of particles over the full range. Table 1 indicates the typical size and type of contaminants and how they correspond to each MERV range from 1 through 16.

CLEAN

MERV	Minimum Particle Size	
1 to 4	> 10.0 μm	
5 to 8	10.0 to 3.0 μm	
9 to 12	3.0 to 1.0 μm	
13 to 16	1.0 to 0.3 μm	

Field Controls offers Media Air Cleaners with MERV 8, MERV 11, and MERV 13 ratings.



Table 2: Particle Size Ranges

Range	Size in microns*	Group
1	0.30 to 0.40	E1
2	0.40 to 0.55	
3	0.55 to 0.70	
4	0.70 to 1.00	
5	1.00 to 1.30	E2
6	1.30 to 1.60	
7	1.60 to 2.20	
8	2.20 to 3.00	
9	3.00 to 4.00	E3
10	4.00 to 5.50	
11	5.50 to 7.00	
12	7.00 to 10.00	

Particles are grouped according to size as indicated in Table 2. Table 3 shows particle size efficiency for each range and minimum final resistance for each MERV value.

* One micron = .000039 inches
 ** MERV (Minimum Efficiency Reporting Value)

Table 1: MERV Ratings and Typical Applications

Typical Contaminant	Typical Application
Pollen, dust mites, cockroach debris, sanding dust, spray paint dust, textile fibers, carpet fibers	Minimum residential
Mold, spores, dust mite debris, cat and dog dander, hair spray, fabric protector, dusting aids, pudding mix	Better residential, general commercial, industrial workspaces
Legionella, lead dust, milled flour, auto emission particulates	Superior residential, better commercial, hospital laboratories
Bacteria, sneeze droplets, cooking oil, smoke, face powder, paint pigments	Hospital & general surgery

CLEAN

Table 3: MERV Parameters

Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, I-lm			Average ASHRAE Arrestance, % by Standard 52.1 Method	Minimum Final Resistance	
	Range E1 (0.3 to 1.0)	Range E2 (1.0 to 3.0)	Range E3 (3.0 to 10.0)		PA	Inches of Water
1	N/A	N/A	E3 < 20	Aavg < 65	75	0.3
2	N/A	N/A	E3 < 20	65 < Aavg < 70	75	0.3
3	N/A	N/A	E3 < 20	70 < Aavg < 75	75	0.3
4	N/A	N/A	E3 < 20	75 < Aavg	75	0.3
5	N/A	N/A	20 ≤ E3 < 35	N/A	150	0.6
6	N/A	N/A	35 ≤ E3 < 50	N/A	150	0.6
7	N/A	N/A	50 ≤ E3 < 70	N/A	150	0.6
8	N/A	N/A	70 ≤ E3	N/A	150	0.6
9	N/A	E2 < 50	85 ≤ E3	N/A	250	1.0
10	N/A	50 ≤ E2 < 65	85 ≤ E3	N/A	250	1.0
11	N/A	65 ≤ E2 < 80	85 ≤ E3	N/A	250	1.0
12	N/A	80 ≤ E2	90 ≤ E3	N/A	250	1.0
13	E1 ≤ 75	90 ≤ E2	90 ≤ E3	N/A	350	1.4
14	75 ≤ E1 < 85	90 ≤ E2	90 ≤ E3	N/A	350	1.4
15	85 ≤ E1 < 95	90 ≤ E2	90 ≤ E3	N/A	350	1.4
16	95 ≤ E1	95 ≤ E2	95 ≤ E3	N/A	350	1.4

FlexFilter®

MEDIA AIR FILTER

The flexible media filter that replaces ALL major brands.

Introducing the patented FlexFilter® from Field Controls. The ultra compact, easy-to-assemble media air cleaner that replaces at least 25 of the most popular models. With seven high efficiency MERV 11 models to choose from, stocking, storing, shipping, and installing media air cleaners just got a whole lot easier.

- Replaces ALL major brands
- Installs in seconds
- Seven models
- MERV 11 media
- Compact
- Easy to store

CLEAN



FlexFilter®

Patented

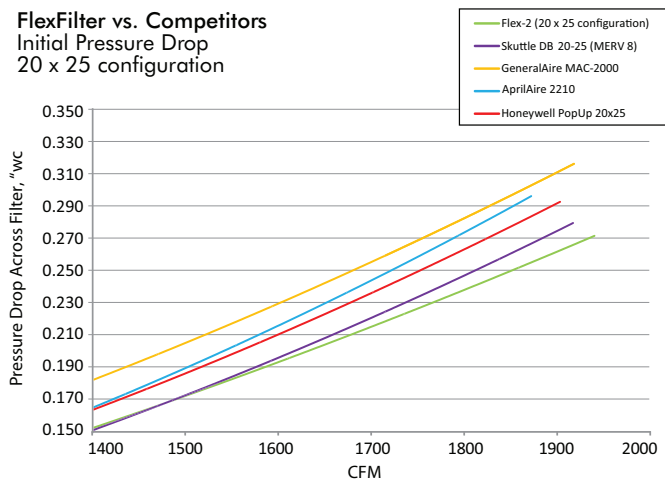
Flexible
20"
OR
16"



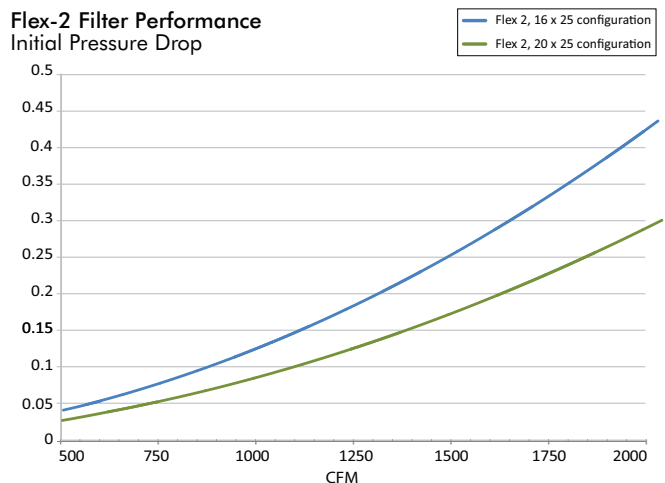
Installs in Seconds



FlexFilter vs. Competitors
Initial Pressure Drop
20 x 25 configuration



Flex-2 Filter Performance
Initial Pressure Drop



Color coded for quick selection



Patented

FlexFilter® Fits!

The perfect filter replacement for ALL major brands. This patented filter is easy to store, installs in just seconds, and selecting the correct model is a snap! Just follow the handy color-coded selection guide below.

FlexFilter® Replacement Guide

BRAND	FILTER MODEL	SIZE (inches)	FITS AIR CLEANER MODEL	REPLACEMENT FLEX MODEL	PART NO.
Field Controls®	FCRM11-2020	20 x 20 x 5	FC11-2020	FLEX-1	46600407
	FCRM11-1625	16 x 25 x 5	FC8-1625 / FC11-1625	FLEX-2	46600401
	FCRM11-2025	20 x 25 x 5	FC8-2025 / FC11-2025 FCRA11-2025		
Skuttle®	000-0448-007 (003)	20 x 20 x 5	DB-20-20	FLEX-1	46600407
	000-0448-008 (004)	16 x 20 x 5	DB-20-16	FLEX-2	46600401
	000-0448-005 (001)	16 x 25 x 5	DB-25-16		
	000-0448-006 (002)	20 x 25 x 5	DB-25-20		
GeneralAire®	5FM2020 (4531)	20 x 20 x 5	MAC2020 / MAC2020M	FLEX-1	46600407
	5FM1625 (4511)	16 x 25 x 5	MAC1400 / MAC1400M	FLEX-2	46600401
	5FM2025 (4501)	20 x 25 x 5	MAC2000 / MAC2000M MAC-L		
Trion®	255649-103 / 259112-113	20 x 20 x 5	455602-225 / 455602-725	FLEX-1	46600407
	255649-105 / 259112-105	16 x 25 x 5	455602-125 / 455602-625	FLEX-2	46600401
	255649-102 / 259112-102	20 x 25 x 5	455602-025 / 455602-525 266380-010 / 266380-510 447380-010 / 477380-510		
Ultravation®	91-013	20 x 20 x 5	90-116	FLEX-1	46600407
	91-012	16 x 20 x 5	90-115	FLEX-2	46600401
	91-005	16 x 25 x 5	90-106		
	91-006	20 x 25 x 5	90-107 90-064 / 90-027		
Honeywell®	POPUP1620	16 x 20 x 4	F100F2028/F200E1003	FLEX-3	46600406
	FC100A1003	16 x 20 x 4	F100F2028		
	FC200E1003	16 x 20 x 4	F200E1003		
	POPUP2020	20 x 20 x 4	F100F2036/F200E1029	FLEX-4	46600405
	FC100A1011	20 x 20 x 4	F100F2036		
	FC200E1011	20 x 20 x 4	F200E1029		
	POPUP1625	16 x 25 x 4	F100F2002	FLEX-4	46600405
	FC100A1029	16 x 25 x 4	F200E1011		
	FC200E1029	16 x 25 x 4	F100F2010/F200E1037		
	POPUP2025	20 x 25 x 4	F100F2010		
FC100A1037	20 x 25 x 4	F200E1037	FLEX-4	46600405	
FC200E1037	20 x 25 x 4	EZXCAB1016			
Carrier® Bryant®	EXPXXFILO016	16 x 25 x 4	EZXCAB1016	FLEX-4	46600405
	EXPXXFILO316	20 x 25 x 4	EZXCAB1020		
	EXPXXFILO020				
	EXPXXFILO320				
Aprilaire®	201 210 + 1213 213 + 1213	20 x 25 x 4	2200	FLEX-5	46600402
	210		1210, 2210, 3210, 4300		
	213		1210, 2210, 3210, 4300		
	310 313	19 x 20 x 4	1310, 2310, 3310, 4300	FLEX-6	46600403
	401 410 + 1413 413 + 1413		16 x 28 x 4		
	410	1410, 2410, 3410, 4400			
	413	1410, 2410, 3410, 4400			

CLEAN

Plastic Buttons
Snap into place quickly and easily

MERV 11 Media
High efficiency with minimal pressure drop



UV-Aire® In-Duct Models

HOW UV WORKS

Pure Air. Who Needs It?

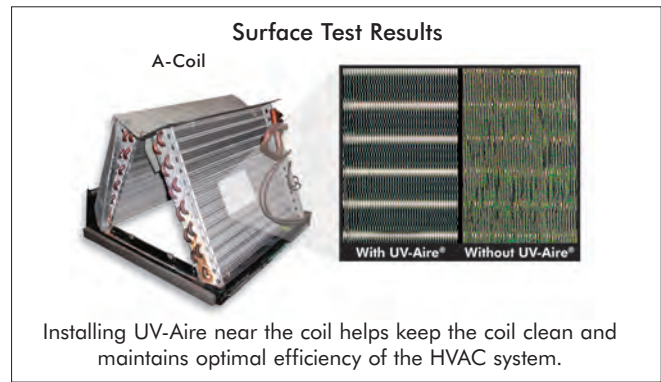
The air in your home can be literally filled with germs. Bacteria, viruses, mold spores, fungi, and dust mites are invisible to the naked eye, and they multiply rapidly. Ultra violet light helps neutralize these invaders so they don't overwhelm your family. Our UV-Aire® products radiate germicidal UV light inside your ductwork to purify your air as it circulates through your HVAC system.

How It Works

UV-Aire uses the energy from a specially designed, high-intensity UVC germicidal lamp to reduce microorganisms in the entire home as they cycle through the HVAC system. Mounted inside the ductwork, the UV-Aire neutralizes most contaminants as they pass the lamp.

The process requires very little maintenance and costs just pennies a day to operate. The UV-Aire could be one of the best health and comfort investments a homeowner ever makes.

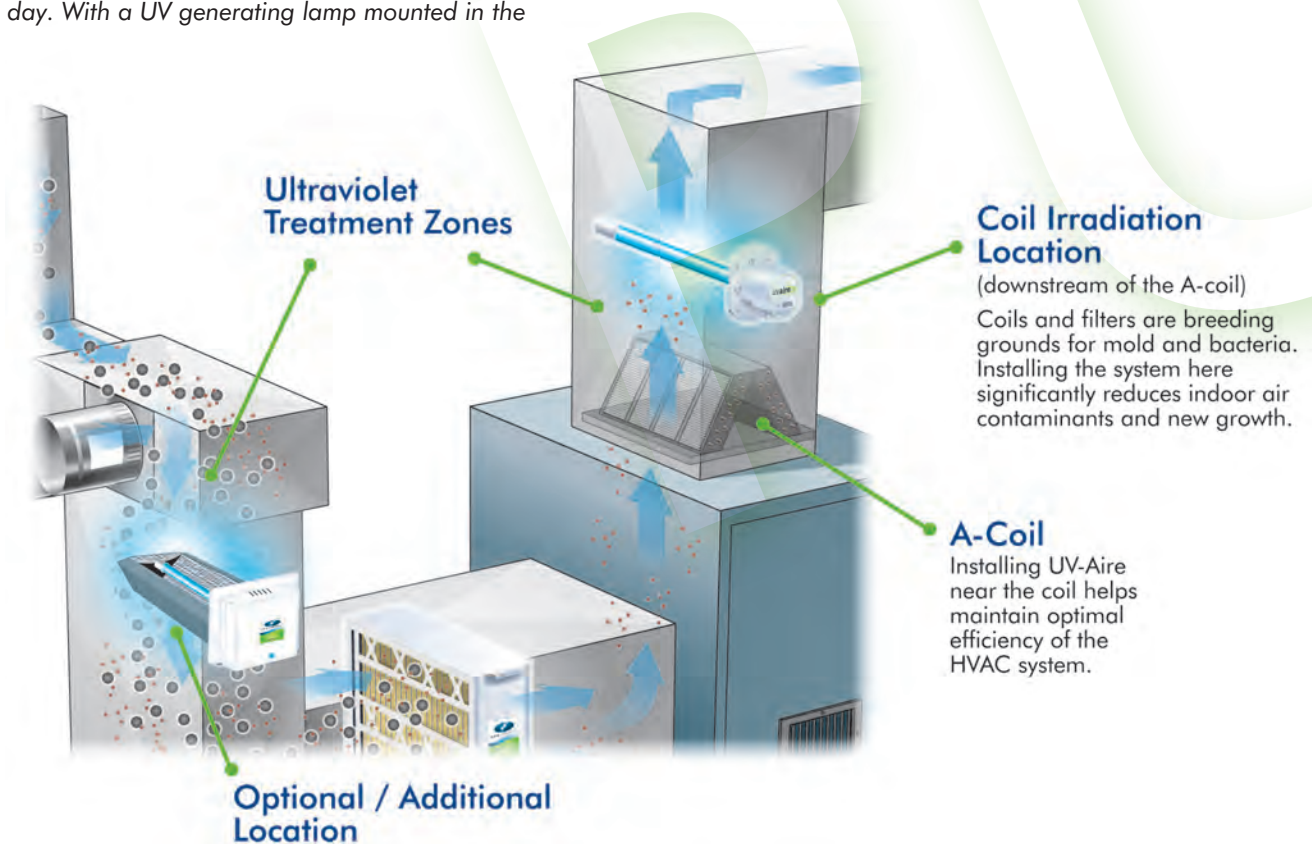
UV's effectiveness in neutralizing bacteria is directly related to the microorganism's exposure time. Indoor air in a typical residential forced-air HVAC system will be recirculated 40-75 times a day. With a UV generating lamp mounted in the



HVAC duct, cumulative exposure can be very effective in controlling indoor bacteria and other airborne contaminants. UV rays will also neutralize germs and mold that breed in drain pans and A-coils. Properly positioned, an ultraviolet system can significantly reduce indoor air contamination and prevent the growth of new microorganisms.

UV-Aire in the Lab

We have three independent studies on the efficiency and effectiveness of the UV-Aire. For complete details, download "How Effective is UV for Air Purification?" at fieldcontrols.com/pdfs/UVTestingtech.pdf.



FlexMountUV™

The newest addition to our UV-Aire® line is the most powerful and versatile yet! It takes half the space of traditional UV units but delivers twice the power. Plus, installation is a breeze.

FAST.

- EZ installation with monster magnet
- No holes or fasteners necessary
- Installs in minutes
- No ductwork penetration

FLEXIBLE.

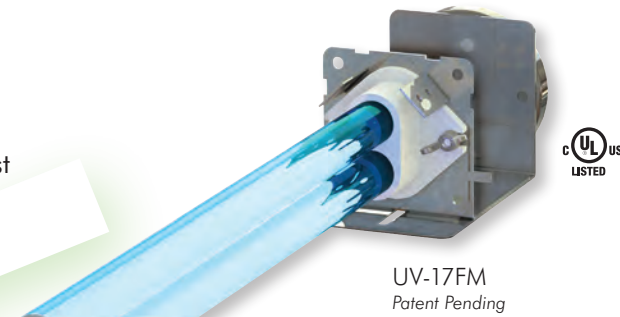
- Internal or external mount
- 180° articulating bracket
- Two sizes - 13" and 17"
- Mounts over A-coil, inside A-coil, or in duct
- Ideal for package systems

FORCEFUL.

- Twin tube, high intensity lamp
- Deflector shield included
- Ballast and water resistant cable included

How It Works

The FlexMountUV™ can be installed using the monster magnet inside virtually any metal cabinet. It is easily positioned over or inside the A-coil with an articulating arm that pivots through 180 degrees. The optional deflector shield focuses the UV energy where it is needed most.



Monster magnet

Hi-output dual lamp

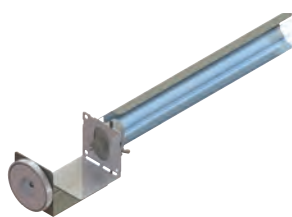
Articulating arm

Deflector shield

PURE

The high output dual lamp generates twice the UV power in the space of a single lamp. For use in a traditional installation, the magnet can be easily removed allowing fasteners to be used instead.

Installation Options

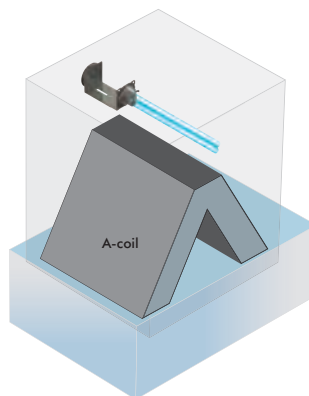


Deflector shield included

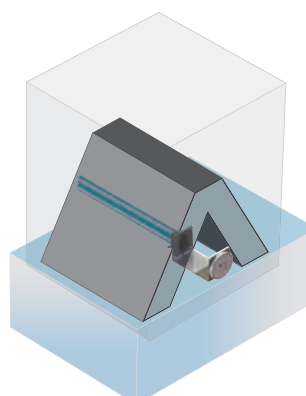


Remote ballast and water resistant cable included.

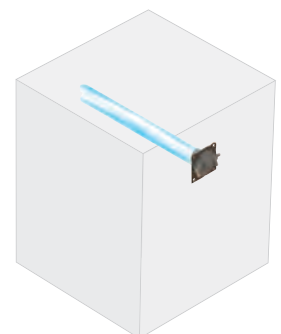
Over the A-coil
Magnet Mount



Inside the A-coil
Magnet Mount



Optional External Mount
Traditional Through Duct Mount



Note: 50VA Transformer required, ask for Part #46638900 TR50VA

UV-Aire® In-Duct Models

In-duct UV-Aire® Models for Forced Air Systems

Field Controls offers a complete line of UV-Aire products for any home or business, with a variety of duct-mounted models designed for forced-air heating and cooling systems. UV-Aire germicidal lamps continuously attack airborne mold, bacteria, and viruses as they circulate through your ductwork. As part of the Healthy Home System, the in-duct UV-Aire works with the Healthy Home System Control to ensure **PURE** air in the home all year round...even when not heating or cooling.



FlexMountUV™ UV-17FM, UV-13FM

- Installs inside cabinet with monster magnet
- High output dual UVC lamp
- Lamp bracket rotates through 180°
- Includes deflector shield, ballast, and water resistant cable



UV-12, UV-18, UV-28, UV-12HP, UV-18HP, UV-28HP

- Hinged cover for easy accessibility
- Includes patented angle bracket and duct board mounting kit
- Installs easily and plugs into a standard 120v outlet
- All UV-HP (heatpump) models are 240v



UV-16 Remote

- 120 volt or 24 volt with plug-in transformer
- Compact design
- Built-In safety switch
- E-Z lamp replacement
- Includes deflector shield



Healthy Home Combo Systems Duo-2000, Trio-1200, Trio-2000

- High output UVC lamps
- Combines with PRO-Cell™ to eliminate odors/VOCs
- Trio includes MERV 13 filter and two lamps



UV-18X Dual Lamp

- Double lamp maximizes intensity and effectiveness up to 4,000 sq. ft.
- Includes patented angle bracket and duct board mounting kit



UV-12E, UV-18E, UV-28E External

- For external package systems and rooftop applications
- Hard wired for 120v, 208v, or 240v
- Includes patented angle bracket



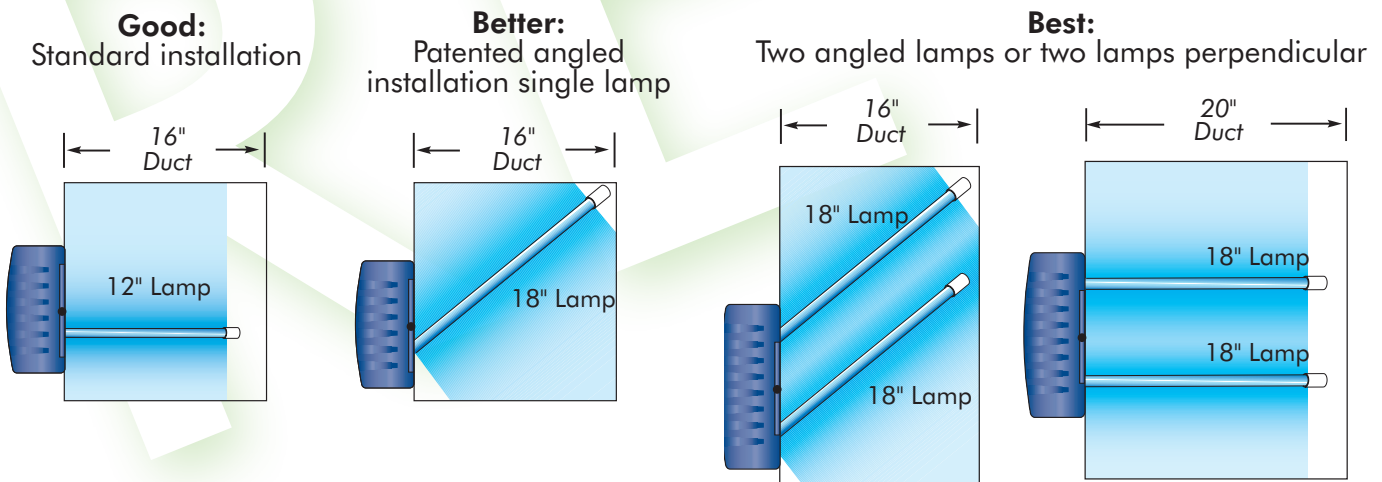
Installation Options

The UV-Aire can be installed in ducts nine inches and larger. Each unit comes with a duct board mounting kit and a patented angle bracket (except UV-16 models). A dual lamp model is available for commercial applications and/or increased potency. There is also a model designed specifically for heat pumps and a model for outdoor installations.

Note: When multiple lamps are used, spacing between lamps should be at least four inches. Angle option allows longer lamps to fit in smaller ducts.

To maintain maximum benefits, lamps should be replaced annually.

It is important that lamps be replaced when the ultraviolet output falls below minimum requirements for protection. Even though a lamp will appear to be operating effectively because it still maintains the visible blue glow, the ultraviolet output will be significantly reduced after 9000 hours of use.



PATENTED ANGLE BRACKET

- Angle allows longer lamps to fit into smaller ductwork, maximizing effectiveness
- Ensures the entire cross section of the duct is irradiated
- Swivel arm allows for easy lamp replacement



DUCT BOARD MOUNTING KIT

- Makes mounting to duct board simple
- Designed to increase stability on the duct board



DEFLECTOR SHIELD

- Focuses the UV light in the proper direction
- Protects plastic and rubber elements from the effects of UV



PURE

Facts about UV

- Since the first UV irradiation system was used, the disinfection of medical equipment using UV has been a common and reliable practice.
- UV disinfection has been determined to be adequate for inactivating bacteria and viruses.
- The germicidal effects of UV light cause photochemical damage to DNA and RNA within microorganisms.
- "...ultraviolet radiation, properly integrated with heating, ventilating, and air conditioning systems, shows the most promise as a widely applicable means of air disinfection." Richard Riley, M.D.

Healthy Home Duo

Coming Soon!
24 Volt Model

Two Stage Air Purification

The Healthy Home Duo combines two state-of-the-art technologies to purify the air in your home. In the first stage of the Duo, the air is exposed to a powerful, ultraviolet C (UVC) germicidal light that neutralizes airborne invaders such as bacteria, viruses, mold and fungi.

The second stage of the Duo uses patented PRO-Cell™ technology, our exclusive Photo-Reactive Oxidation process. When the patented aluminum honeycomb cells are exposed to the UVC germicidal light, the PRO-Cell's extensive surface area transforms the odors and volatile organic compounds (VOCs) into harmless, odorless water vapor and carbon dioxide.

The PRO-Cell core is maintenance-free and never needs replacing. The Healthy Home Duo can be installed by your HVAC contractor over the A-coil, in the return, or in the supply duct of your HVAC system. For more information, visit fieldcontrols.com.

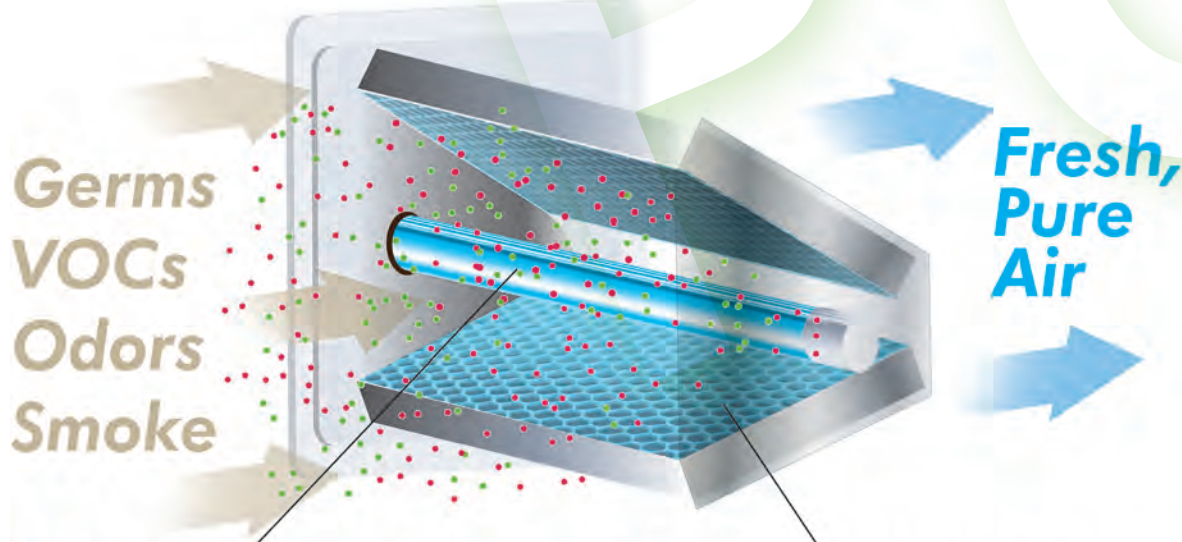


Duo-2000
Patented



PURE

Two Stage Process



1 UVC Germicidal Purification
Neutralizes and destroys bacteria, viruses, mold, and fungi

2 Patented PRO-Cell™ Technology
Aluminum honeycomb cells dramatically reduce VOCs, odors, and smoke

Germs

UVC germicidal light **neutralizes** airborne microbes such as **bacteria, viruses, mold, and fungi.**



Neutralizes

93.6%
of germs



VOCs & Odors

Patented PRO-Cell™ honeycomb **removes odors, smoke, and gases** from cleaning products (VOCs), and **eliminates ozone and formaldehydes.**



Eliminates

88%
of odors

Removes

80%
of VOCs



6 patents for our exclusive

PRO-Cell™ Technology process

3,500
square inches

of PRO-Cell™ photo-reactive surface area

FRESH, PURE AIR



Healthy Home Trio

Three Stage Air Purification

The Healthy Home Trio is a 3-in-1 package that keeps the air in your home fresh, clean, and pure. As air enters the Trio, it is filtered with a MERV 13 filtration media. This pleated 4 inch filter traps particles as small as .3 micron including mold, bacteria, dust, dander, and pollen. After the filter, the air must pass through an ultraviolet C (UVC) germicidal treatment zone guarded by two powerful 24" UVC germicidal lamps. These lamps neutralize airborne microbes such as bacteria, viruses, mold, and fungi.

The final phase uses patented PRO-Cell™ technology, our exclusive Photo-Reactive Oxidation process. When the patented aluminum honeycomb cells are exposed to the UVC germicidal light, the PRO-Cell's extensive surface area transforms the odors and volatile organic compounds (VOCs) into harmless, odorless water vapor and carbon dioxide.

The PRO-Cell core is maintenance-free and never needs replacing. The Healthy Home Trio can be installed by your HVAC contractor over the A-coil, in the return, or in the supply duct of your HVAC system. For more information, visit fieldcontrols.com.

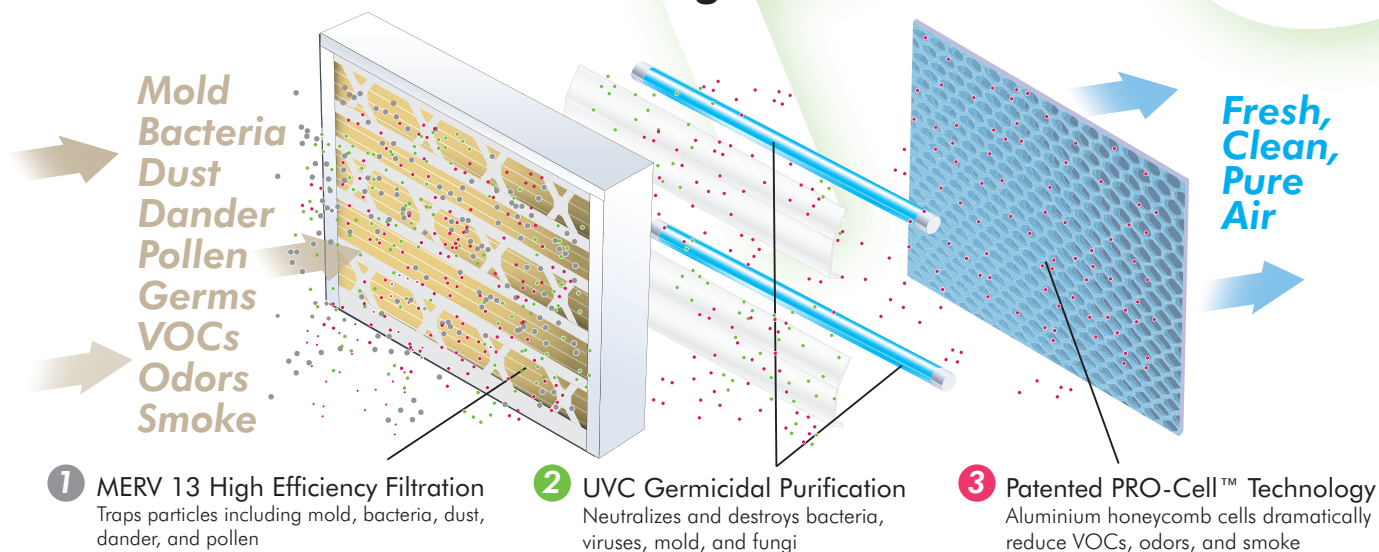


Trio-1200
Patented

Trio-2000
Patented



Three Stage Process



Dust, Dander & Pollen

MERV 13 filter **traps** particles as small as .3 micron including **mold, bacteria, dust, dander, and pollen.**

Germs

UVC germicidal light **neutralizes** airborne microbes such as **bacteria, viruses, mold, and fungi.**

VOCs & Odors

Patented PRO-Cell™ honeycomb **removes odors, smoke, and gases** from cleaning products (VOCs), and **eliminates ozone and formaldehydes.**



Neutralizes

93.6%
of germs

in
2 Hours

Eliminates

88%
of odors

Removes

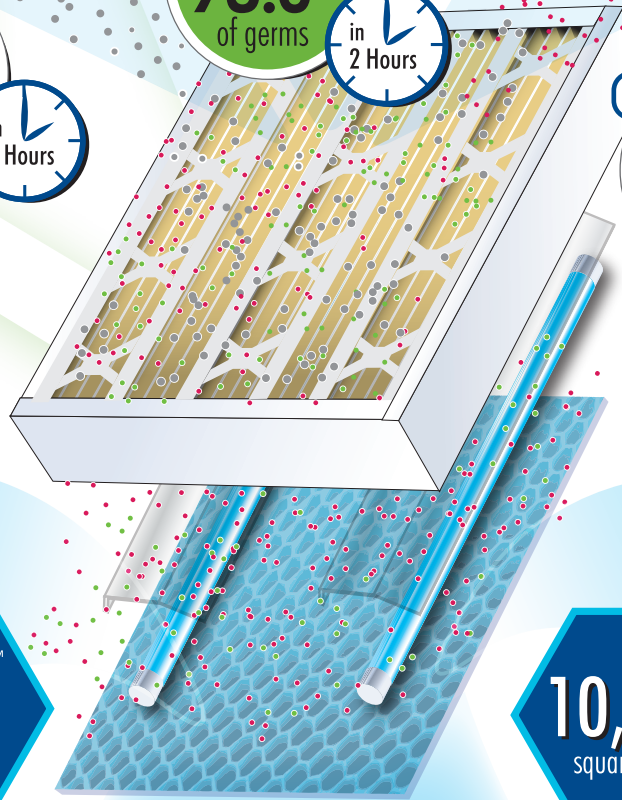
80%
of VOCs

in
2 Hours

Reduces

93.7%
of particles

in
2 Hours



6
patents
for our
exclusive

PRO-Cell™
Technology
process

PRO-Cell™
photo-reactive
surface area
(Trio-2000)

10,080
square inches

FRESH, CLEAN, PURE AIR



The Ultimate Commercial Air System

The Cube commercial air purifier is designed for applications or work environments where air quality is essential. High efficiency particle filtration is combined with up to three stages of PRO-Cell™ odor and VOC reduction. This multi-stage treatment effectively and efficiently cleans the air in a single pass for systems up to 6.0 tons. The Cube is designed for use in any environment where harmful odors, volatile organic compounds, viruses or other airborne contaminants are a concern. The Cube's effectiveness is multiplied in recirculating HVAC systems where the air quality improves with each pass.



System Options

Recirculating systems can be outfitted with an optional post filter to trap targeted gases or with an all-purpose charcoal filter to further control odors.

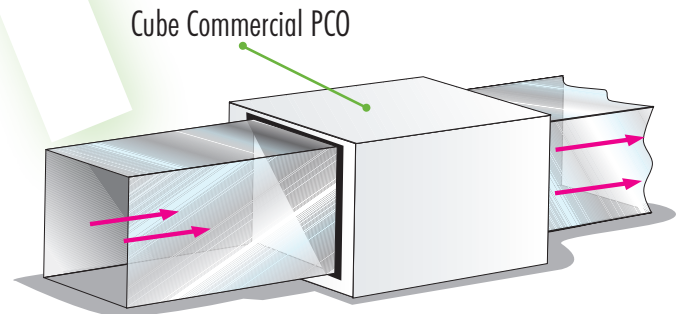
Exhausting systems can be outfitted with a third PRO-Cell™ module with specialized output to completely eliminate odors emitted outside the building.

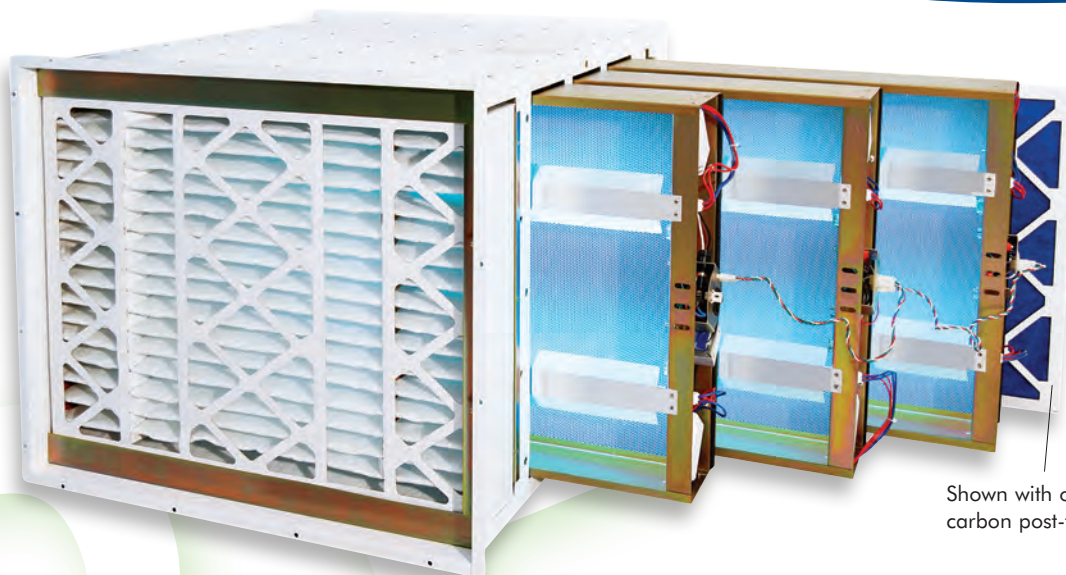
Standard configuration includes:

- One MERV 13 high efficiency filter
- Three patented PRO-Cell™ PCO modules
- One additional slot for a post-filter

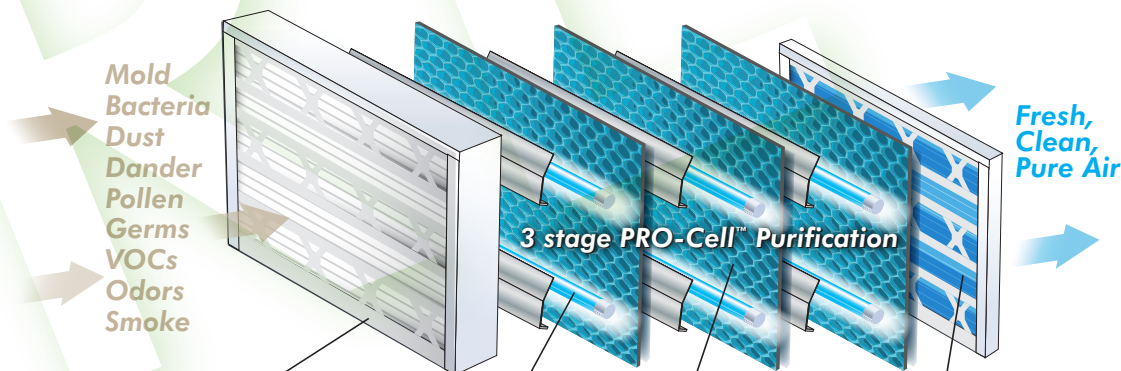
Typical commercial applications include:

- Printing Companies
- Nail & Hair Salons
- In Vitro Fertilization Clinics
- Schools
- Clean Rooms
- Laboratories
- Medical Clinics
- Pet Stores
- Vet Hospitals
- Fabric and Carpet Stores
- Health Clubs
- All Environments with Inks, Solvents, and VOC-Generating Chemicals





Shown with optional carbon post-filter



- 1 High Efficiency Filter**
 - MERV 13 high efficiency 4" pleated pre-filter
 - Traps particles as small as .3 micron including mold, bacteria, dust, dander, and pollen
- 2 UVC Germicidal Lamps**
 - Two high output UVC germicidal lamps per module
 - Three ultraviolet germicidal treatment zones are standard
 - Neutralizes airborne microbes such as bacteria, viruses, mold, and fungi
 - UVC magnifies PRO-Cell™ performance up to 200%
- 3 PRO-Cell™ PCO**
 - Patented PRO-Cell™ panels that clear the air of smoke, odors, and VOCs
 - Transforms odors, smoke, and volatile organic compounds (VOCs) into harmless, odorless water vapor and carbon dioxide
 - Maintenance free PRO-Cell™ core
- 4 Optional Carbon Filter**

Packaged and Custom Solutions for Business and Industry

Field Controls offers a comprehensive solution that is scalable, customizable and robust. For more information, refer to our Commercial Air Quality Guide.



PURE

Style		Model	Description
FlexMountUV™		UV-13FM UV-17FM	FlexMount can install traditionally through the duct or magnetically inside the duct. Available in 13" and 17" high intensity UVC germicidal lamp options.
Twist-n-Lock		UV-16/120 UV-16/24	Compact "Twist-n-Lock" design for easy installation and lamp replacement. 16" high intensity UVC germicidal lamp in 24V and 120V models.
External Mount		UV-12* UV-18* UV-28* UV-18X	Robust, through the duct units with high intensity UVC germicidal lamps. Available in 12", 18" & 28" models. Also in dual 18" lamp (18X model) for larger applications.
Outdoor		UV-12E UV-18E UV-28E	Outdoor mount design for rooftop or package heating and cooling systems. High intensity UVC germicidal lamps in 12", 18" and 28" models.
Combo Systems	 <p>Coming Soon! 24 Volt Model</p>	Duo-2000	The DUO is two products in one. <ul style="list-style-type: none"> ① UVC germicidal lamp sterilizes viruses, bacteria, mold, etc. ② PRO-Cell™ technology neutralizes VOCs, odors, and smoke.
		Trio-1200 Trio-2000	The Trio is three products in one. <ul style="list-style-type: none"> ① UVC germicidal lamp sterilizes viruses, bacteria, mold, etc. ② PRO-Cell™ technology neutralizes VOCs, odors, and smoke. ③ Media Air Cleaner for whole house filtration.

*Also available in HP model 240V

Selection Guide

Features	Applications
<ul style="list-style-type: none"> • Monster magnet installs inside the duct • No duct penetration required • High intensity twin tube technology • 180° articulating bracket • Deflector shield included • UV view port • No ozone generation 	<p>Ideal for any forced air system including outdoor package units.</p> <p>Mounts over, under, or inside the A-coil.</p>
<ul style="list-style-type: none"> • Built-In safety switch • Deflector shield included • Duct board mounting kit included • 24V unit includes plug-in transformer • UV view port • No ozone generation 	<p>In-duct remote UVC germicidal light designed for forced-air heating and cooling systems.</p> <p>Can mount in return duct, supply duct, or over the A-coil.</p>
<ul style="list-style-type: none"> • Hinged cover for easy lamp changes • Plug into any standard 120v outlet • Patented angle bracket included • Duct board mounting kit included • UV view port • No ozone generation 	<p>In-duct remote UVC germicidal light designed for forced-air heating and cooling systems.</p> <p>Can mount in return duct, supply duct, or over the A-coil.</p>
<ul style="list-style-type: none"> • Hard wired for 120v, 208v, or 240v • NEMA 3 outdoor enclosure • Patented angle bracket included • UV view port • No ozone generation 	<p>For outdoor installations on package systems and rooftop applications.</p>
<ul style="list-style-type: none"> • Patented PRO-Cell™ technology • Catalyst never needs replacing • High intensity 24" UVC germicidal lamp • Two year lamp life efficiency • No ozone generation 	<p>2-in-1 system is ideal for applications where odors, smoke or other toxic gas may be present.</p> <p>Installs over the A-coil, in the return, or in the supply duct of any forced air system.</p>
<ul style="list-style-type: none"> • Patented PRO-Cell™ technology • Catalyst never needs replacing • Two high intensity 24" UVC germicidal lamps • Two year lamp life efficiency • MERV 13 filtration • No ozone generation 	<p>3-in-1 system is ideal for applications where odors, smoke or other toxic gas may be present.</p> <p>Installs in the return duct of any forced air system, including outdoor package units.</p>



Independent Lab Testing

For many years, ultraviolet light has proven effective in sterilizing medical equipment, purifying water and processing food. Currently, the use of UV lights is gaining industry acceptance in HVAC applications. Microbe Management, Inc., a testing agency in Greenville, NC,

Attack the Source

While experts disagree on the root causes of many IAQ problems, there is consensus that stopping problems at the source is crucial to long-term air quality improvement. First, the homeowner must eliminate any unwanted sources of moisture in the home such as roof leaks and drainage problems. Likewise, the air conditioning coil must be addressed since it is a natural breeding ground for molds, which thrive in a dark, moist environment.

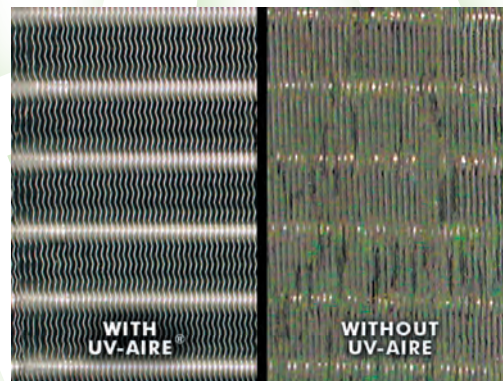
Surface Test: UV Neutralizes and Prevents Mold on A-Coils

A specific test was designed to determine UV's effectiveness in treating mold on coil surfaces. The test simulated the damp, dark settings where A-coils are found. In this study "We took a standard A-coil, sterilized it, introduced two kinds of mold and then placed it in a controlled, moisture-laden environment," says Bernard Kane, of Microbe Management. "We created two separate chambers in our lab. One chamber was bathed in UV light. The other was not." The results were dramatic and conclusive. The side of the A-coil that was exposed to the ultraviolet light was clean and clear of mold growth. Mold continued to grow unabated on the side without UV. Subsequently, the contaminated side was bathed in UV light and the mold was eradicated. Kane summarized the results: "Properly positioning a UV lamp over the A-coil in

has conducted three separate tests to examine UV's effect on indoor air quality. The test results reviewed in this article conclude that UV is an integral part of a whole house approach to improving Indoor Air Quality.

Familiar with the rank smell generated when switching from air conditioning to heat mode? That is the smell of mold and bio-film burning off the coil. Whenever the blower is engaged, mold spores from contaminated A-coils are released into the ductwork and distributed throughout the building. These spores then seek alternative surfaces in other parts of the home to breed and multiply.

a residential or commercial air conditioning system can eliminate surface mold on the coil and prevent future mold growth as well."



Airborne Testing: Single Pass and Cumulative Tests

Bacteria and viruses are introduced into the building by its occupants and often cannot be controlled at the source. Therefore, it is important to attack these airborne invaders early and often, before they have an opportunity to multiply. The single pass test proves that UV effectively neutralizes these airborne microorganisms in the duct.

Since HVAC systems typically re-circulate the air 40-75 times per day, a multi-pass, cumulative test was also conducted. Results demonstrate that repeated, multipass exposure to UV light dramatically reduces the concentration of bacteria and viruses throughout the home.

Single Pass Test: UV Deadly for Airborne Microbes

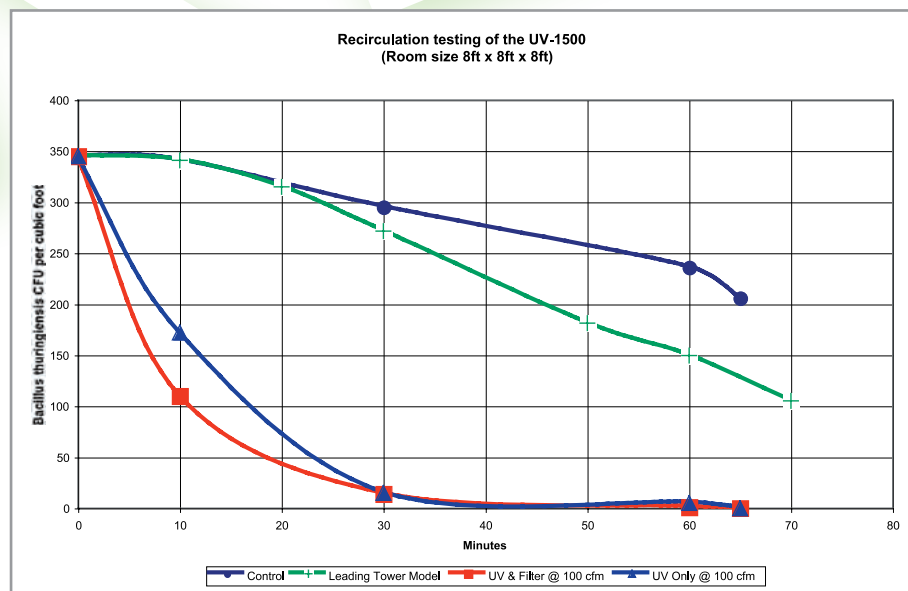
This study introduced a common bacterium into a galvanized air duct equipped with a UV light to determine how effective the lamp would be in reducing the bacteria with one exposure, or a “single pass”. The tests were conducted at two speeds: 1125 cfm and

2250 cfm in an 18” x 18” duct. The UV lamp yielded at least a 90% reduction of the test bacteria with a single airflow pass at 1125 cfm and at least 71% reduction at 2250 cfm.

Cumulative Test: Multiple Exposures Dramatically Improve IAQ

To further investigate the effectiveness of UV on indoor air quality, Microbe Management created a series of tests designed to measure the cumulative effect of UV in reducing airborne contaminants. The test was performed in a structure with two isolated 8’ x 8’ x 8’ rooms where air could be sampled. In the control room, no UV was present, while the other room utilized a portable UV air purifier. According to Bernard Kane, Ph.D., of Microbe Management, “Test results were very encouraging. In both rooms, we introduced a resistant,

spore-forming bacteria until the air was saturated with 350 colonies per cubic foot. In the room with the portable UV unit, the spore count was reduced by 50% in just 10 minutes and by 98% within 30 minutes. In the control room, without UV, more than 85% of the bacteria were still active after thirty minutes.” Similarly, the leading consumer UV “tower” model was also tested, but showed only minimal effectiveness. (See chart below.)



Conclusion: UV is an Effective Part of “Whole House” Solution

A-coil irradiation, single pass, and cumulative tests confirm that UV is an important and effective contributor to a healthier home environment. UV technology used with a quality filter (MERV rated 8 or higher) will dramatically improve Indoor Air Quality. Additionally, portable units can be used in combination with in-duct models. This combination is

strongly recommended for individuals with depressed immune systems, asthma, allergies, or other respiratory conditions. For homes without forced-air, portable UV air purifiers are recommended to enhance IAQ. Also, health care professionals, teachers and day-care workers can benefit from additional UV protection from influenza and other viruses.



UV-Aire® Portable Models

PORTABLES

For Ductless Systems and Extra Protection

We offer three portable UV-Aire® models that help keep the air fresh, clean and pure. All three models contain UVC germicidal light to zap airborne mold, dust mites, bacteria, and viruses. Each contains a high efficiency filter to trap dust, pollen, and pet dander and a charcoal filter to stop odors. The new Trio Portable also features our exclusive, patented PRO-Cell™...the most effective way to eliminate VOCs, odors, and smoke. The Trio also generates negative ions which promote mental clarity, reduce anxiety, and allow for more natural sleep.

The UV-Aire portables are ideal for homes without ductwork and for extra protection in bedrooms, nurseries, dormitories, and apartments.



PORTABLES



UV-1500C Portable

For home or office up to 1,500 square feet. Traps dust and dander. Zaps germs and mold spores. Reduces odors. Can be installed in standard 2' x 2' ceiling grid. Plugs into any standard 120 volt outlet.

Features

- 1 Recessed handle
- 2 Carbon filter
- 3 UVC germicidal lamp
- 4 Adjustable fan control
- 5 Visible and audible lamp condition alerts
- 6 Built-in heavy-duty fan
- 7 12" x 12" high-efficiency/ carbon filter
- 8 Rubber feet



UV-1500C



Drop ceiling installation

New!



Trio Portable
TRIO-1000P



Trio-1000P Portable

The ultimate portable Healthy Home System™. For home or office. Zaps germs and mold. Traps dust and dander. Eliminates VOCs, odors, and smoke. Plugs into any standard 120 volt outlet.

Features

- 1 First gas absorption layer
- 2 Second gas absorption layer
- 3 High efficiency, ultra quiet, variable speed fan
- 4 Hospital grade HEPA filter
- 5 High impact ABS plastic
- 6 PRO-Cell™ Photo-catalytic converter
- 7 High output UVC germicidal lamp
- 8 VOC sensor
- 9 Particle sensor



PORTABLES



UV-500C



UV-500C Portable

Ideal for the bedroom or small office. Traps dust, zaps germs, and reduces smoke just like its larger cousins. Plugs into any standard 120 volt outlet.

Features

- 1 Built-in handles
- 2 10"x10" high-efficiency/ carbon filter
- 3 UVC germicidal lamp
- 4 3 speed fan control
- 5 Visible lamp and filter condition alerts
- 6 Heavy-duty fan
- 7 Rubber feet. 12" x 12" footprint.



Humidifiers

Residential Steam Humidifier

The humidifier that works when you need it.

The Field Controls Residential Steam Humidifier operates when there is a call for humidity, not just when there is a call for heat. This means maximum comfort for the homeowner. It is also designed for optimum efficiency with an onboard system that automatically performs routine maintenance and monitors operations for maximum safety.



Automatic Maintenance

The automatic flush system drains the humidifier every twenty-four hours of operation. This is a preventative maintenance mode that keeps the pan clean and the water fresh. Since the pan refills only when there is a call for humidity, the pan is empty during the summer months. This prevents stagnant water and the problems associated with other types of humidifiers. The S2000 can output up to 16 gallons of water per day and the S2020 can output up to 23 gallons per day.

Information is Power

The S2000 and S2020 steam humidifiers have a built-in computer chip to ensure maximum efficiency, accuracy, reliability and safety. The easy to read LEDs on the unit communicate operation and troubleshooting information.

Features

- Interlocking wiring for fan control
- LEDs for system readout
- Replaceable sacrificial anode
- Optional water filter
- Copper heating element for improved durability

Benefits

- Humidifies without a call for heat
- Compatible with all forced air heating systems
- Most effective cure for dry homes
- 100% guaranteed fresh water
- Water is allowed to cool before draining, reducing risk of scalding if servicing
- Reduced clogging because tank does not drain from the bottom
- Works with heat pumps and geothermal systems

ThermoMist® Spray Atomizing Humidifier

The ThermoMist® whole house humidifier is ideal for use with conventional gas or oil forced-air central heating systems. It's fully adjustable and uses fresh water to automatically humidify up to 3,000 square feet. (5,000 sq. ft. with optional spray nozzle)

Features

- For homes up to 5,000 square feet
- Adjustable
- Heat activated
- Versatile installation



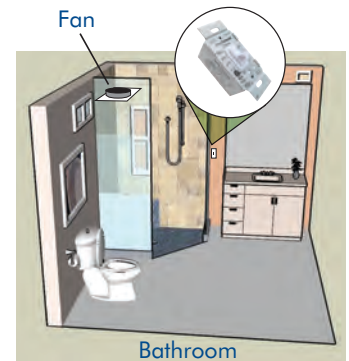
SmartExhaust™

The Smart Switch for Smart Houses

The easiest, most cost efficient way to help make a home ASHRAE 62.2 compliant. The SmartExhaust turns the bathroom fan into an automatic exhaust system that helps eliminate stale air from the home.



SmartExhaust™

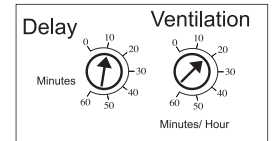


Features

- Makes standard bathroom fans ASHRAE 62.2 compliant
- Microprocessor technology provides precise ventilation times
- Fan runs every hour for set ventilation period
- Controls the fan and light...all in one switch
- Helps prevent mold and mildew
- Helps meet ventilation codes
- Part of the Healthy Home System™

How It Works

The SmartExhaust™ is set by the installer to automatically turn the fan on once per hour for a set amount of time (1-60 minutes). While running, the SmartExhaust is sending stale air outside. The stale air is replaced by fresh air via a Fresh Air System, a Make-Up Air System, or another inlet.

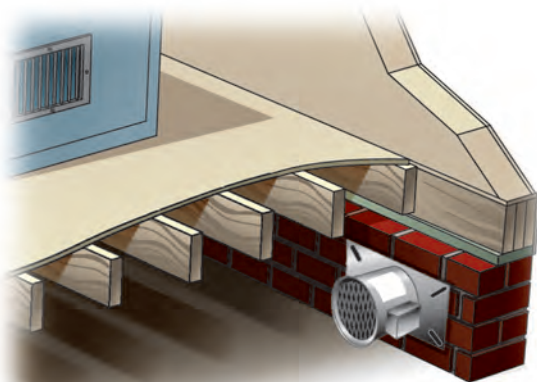


Example: 10 minute delay, 20 minutes per hour ventilation

Eliminator® Foundation Vent Fan

Eliminate moisture in crawl spaces

The Eliminator Foundation Vent Fan is a motorized fan designed to circulate fresh air in a home or building crawl space to eliminate cancer-causing radon gas and reduce moisture that can lead to mold formation and termite infestation. It is wired for automatic operation when the temperature exceeds 50° F. An optional de-humidistat activates the fan when humidity exceeds the owner-determined setting (20%–80%) in conjunction with the built-in temperature control.



Installed behind existing vent



EL-1

Features

- Reduces moisture content and mold potential in crawl spaces, floor joists, flooring, and other support wood
- Circulates air in crawl space
- Removes radon gas
- Temperature or humidity activated
- Reduces potential for airborne mold infiltration into home
- Reduces termite potential



Optional De-Humidistat

Note: The de-humidistat is designed to be installed remotely, so it can be placed in the crawl space where moisture is most likely to accumulate.

MORE

Models & Specifications



FRESH					
Model	Product	Description	Voltage	Amps	Watts
FAS-6	Healthy Home System™ Control	Fan/Vent ON and OFF delay settings, 1-199 minutes in 1 minute increments, unlimited setting for ON and OFF	24	0.07	–
	FAD Fresh Air Damper	Motorized, stainless steel, power open/close in 15 sec. increments, fits 6" duct or pipe	24	–	3
HHSC+	Healthy Home System™ Control	Programmable control for central system fan	24	0.07	–
FAD-4	Fresh Air Damper	Power open/close, fits 4" duct or pipe	24	–	3
FAD-6	Fresh Air Damper	Power open/close, fits 6" duct or pipe	24	–	3
FAD-8	Fresh Air Damper	Power open/close, fits 8" duct or pipe	24	–	3
FAD-10	Fresh Air Damper	Power open/close, fits 10" duct or pipe	24	–	3
MAS-1	Fresh Air/Make-Up Damper	Pressure activated, fits 6" duct or pipe	–	–	–

Recovery Ventilators

Model	Product	Size (inches)	Airflow cfm					Effectiveness @ 32° F	Voltage	Amps	Hz	Watts
			.1	.2	.3	.4	.5					
FC95HRV	Heat Recovery Ventilator	24.5 H x 18.5 W x 16 D	76	73	70	66	60	88%	120	0.9	60	89
FC155HRV	Heat Recovery Ventilator	19 H x 33.62 W x 14.75 D	144	134	125	113	92	73%	120	1.4	60	119
FC200HRV	Heat Recovery Ventilator	19 H x 33.62 W x 14.75 D	207	200	184	171	152	74%	120	1.4	60	113
FC150ERV	Energy Recovery Ventilator	19 H x 33.5 W x 14.75 D	151	141	132	124	107	81%	120	1.4	60	95

CLEAN

Media Air Cleaners™

Model	Rated Air Flow (cfm)	MERV Rating	Media Size (inches)
FC8-1625HS	600 - 1,400	8	16 H x 25 W x 5 D
FC8-2025HS	600 - 2,000	8	20 H x 25 W x 5 D
FC11-1625HS	600 - 1,400	11	16 H x 25 W x 5 D
FC11-2020HS	600 - 1,400	11	20 H x 20 W x 5 D
FC11-2025HS	600 - 2,000	11	20 H x 25 W x 5 D
FC11-2016T3HS	600 - 1,200	11	16 H x 25 W x 3 D
FCRA11-2025	600 - 2,000†	11	20 H x 25 W x 5 D

† A second Media Air Cleaner may be required if CFM exceeds rated air flow. Refer to installation manual for more information.

PACKAGED SOLUTION

Model	PRO-Cell™ Surface Area (sq. in.)	Sizing (tons)	Voltage	Lamp Wattage	MERV 13 Filter (inches)	MERV 13 Efficiency Particulate Reduction at .30 microns	Dimensions (inches)	Lamp Life Efficiency
Cube	600 - 1,400	6.0	120	6 at 25	20 H x 25 W x 4 D	92.30%	23 H x 31 W x 29 D	2 years



MODELS



Models & Specifications



PURE						
UV-Aire® In-Duct Models						
FlexMountUV™						
Model	Twin Tube Lamp Length (inches)	Voltage	Lamp Wattage	Lamp Intensity $\mu\text{W}/\text{cm}^2$ @ 1m	Sizing (tons)	Lamp Life Efficiency
UV-13FM*	13	24	24	65	1.5 to 3.0	2 years
UV-17FM*	17	24	36	110	1.5 to 5.0	2 years
In-Duct						
Model	Minimum Duct Width (inches)	Voltage	Lamp Wattage	Lamp Intensity $\mu\text{W}/\text{cm}^2$ @ 1m	Sizing (tons)	Lamp Life Efficiency
UV-12	9	120	30	37	1.5 to 3.0	2 years
UV-18	14	120	30	73	1.5 to 5.0	2 years
UV-28	22	120	60	105	1.5 to 5.0	2 years
UV-12E	9	120/240	30	37	1.5 to 3.0	2 years
UV-18E	14	120/240	30	73	1.5 to 5.0	2 years
UV-28E	22	120/240	60	105	1.5 to 5.0	2 years
UV-12HP	9	240	30	37	1.5 to 3.0	2 years
UV-18HP	14	240	30	73	1.5 to 5.0	2 years
UV-28HP	22	240	60	105	1.5 to 5.0	2 years
UV-18X	14	120	60	2 at 73	1.5 to 5.0	2 years
UV-16/120	16	120	30	62	1.5 to 5.0	2 years
UV-16/24	16	24	30	62	1.5 to 5.0	2 years

*50VA Transformer required, ask for Part #46638900 TR50VA

Healthy Home Duo								
Model	Sizing (tons)	Voltage	PRO-Cell™ Surface Area (sq. in.)	Lamp Life Efficiency	Lamp Wattage	Lamp Intensity ($\mu\text{W}/\text{cm}^2$ @1m)	Static Pressure Performance	Dimensions (inches)
Duo-2000	1.5 to 5.0	120/230	3,500	2 years	50	135	.02 in WC @ 2,000 cfm	6 1/2 H x 7 5/8 W x 1 7/8 D 17 3/4 (In Duct)

COMING SOON! - 24 Volt Model

Healthy Home Trio										
Model	Sizing (tons)	Voltage	PRO-Cell™ Surface Area (sq. in.)	Lamp Life Efficiency	Lamp Wattage	Lamp Intensity ($\mu\text{W}/\text{cm}^2$ @1m)	Static Pressure Performance	MERV 13 Filter (inches)	MERV 13 Efficiency Particulate Reduction at .30 microns	Dimensions (inches)
Trio-1200	1.5 to 3.0	120	8,065	2 years	2 at 25	2 at 70	.30 in WC @ 1,200 cfm	16 H x 25 W x 4 D	92.30%	17 H x 25 W x 10 D
Trio-2000	2.5 to 5.0	120	10,080	2 years	2 at 25	2 at 70	.32 in WC @ 1,600 cfm	20 H x 25 W x 4 D	92.30%	21 H x 25 W x 10 D

Portable Models						
Model	Sizing Sq. Ft.	Voltage	Lamp Life Efficiency	Lamp Wattage	Lamp Intensity $\mu\text{W}/\text{cm}^2$ @ 1m	Dimensions (inches)
UV-500C	500	120	1 year	10	24	N/A
UV-1500C	1,500	120	1 year	30	37	N/A
TRIO-1000P	1,000	120	1 year	10	45	18 H x 21.5 W x 8 D

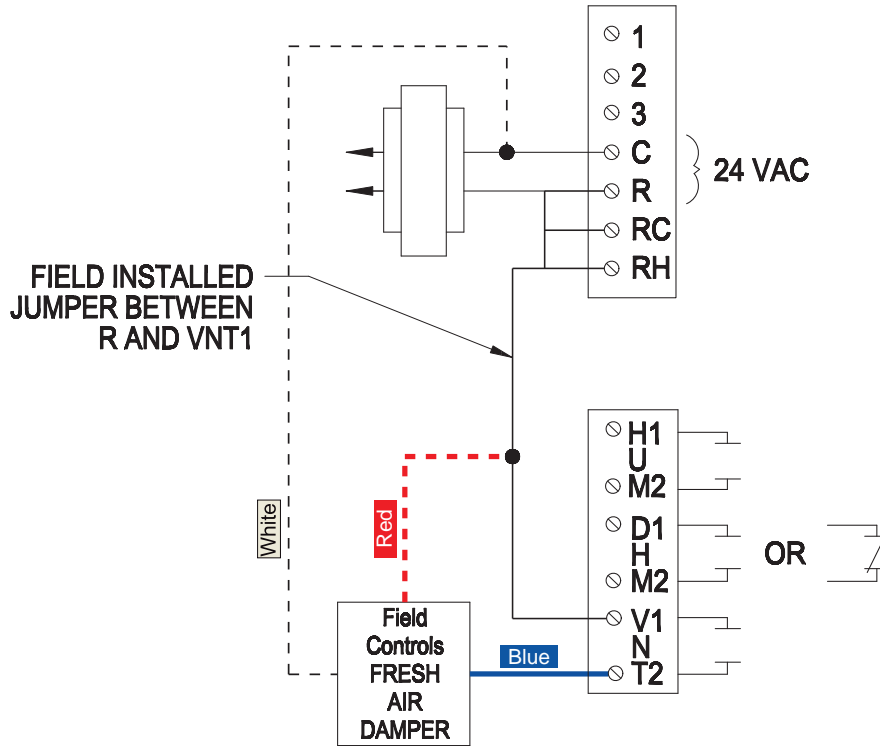
MORE									
SmartExhaust™ & Eliminator Foundation Vent Fan									
Model	Product	Description	Voltage	Amps	Watts	Hz	Recommended Max. Sq. Ft.		
SEC	SmartExhaust™	Programmable control for exhaust fans	120	-	-	-	-		
EL-1	Eliminator® Foundation Vent Fan	Fits any crawl space vent	120	0.6	35	60	1,000		
EDH-1	De-Humidistat	De-Humidistat	120	12	-	-	-		

Residential Steam Humidifier									
Model	Output Capacity	Max coverage area Sq. Ft.	Voltage	Watts	Amps	Hz	Plenum Opening (inches)	Weight Lbs.	Humidistat Included
S2000	16 Gal./Day	2,400	120 VAC	1.4	11.6	-	6 x 6	9	Yes
S2020	23 Gal./Day	3,200	220 VAC	2.0	8.5	-	6 x 6	9	Yes
TM2000	9 Gal./Day	3,000 (5,000 sq. ft. with optional spray nozzle)	24 VAC	2.0	0.40	60	-	2	No

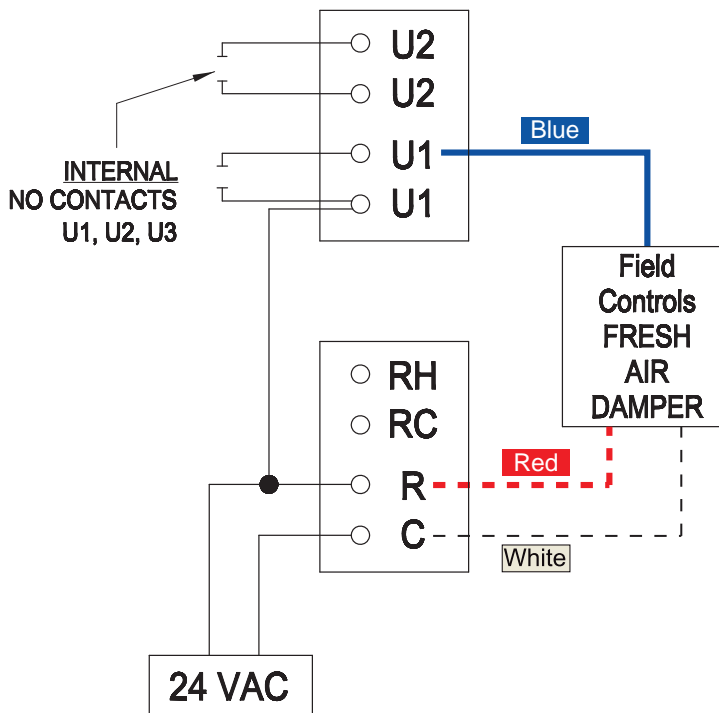
Wiring Diagrams

for FAS

FAD to Honeywell® VisionPro® Total Home Comfort System



FAD to Honeywell® THX9321/9421 Prestige IAQ and RF EIM



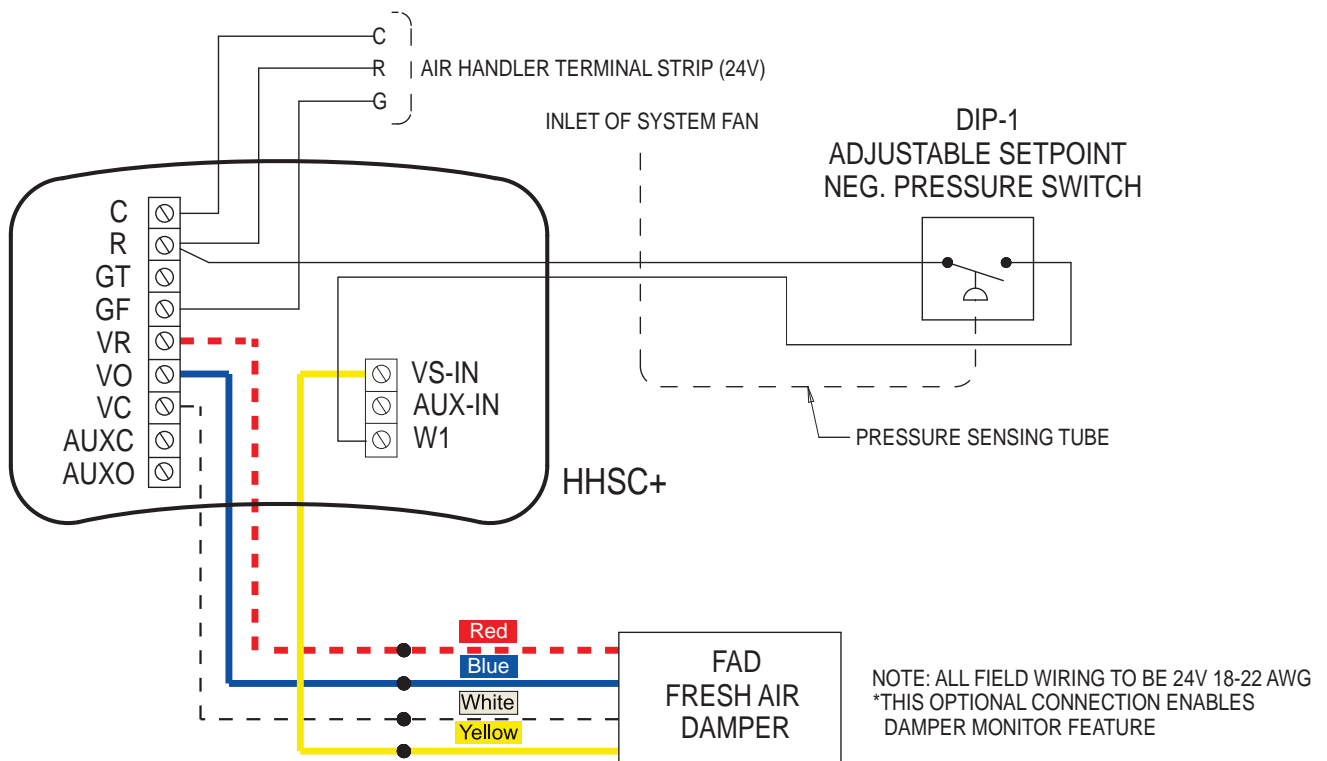
*** UNIVERSAL RELAY U1 (OR U2 OR U3) MUST BE PROGRAMMED & USED FOR VENTILATION**

*** ANY COMBINATION OF UNIVERSAL RELAYS (U1, U2, U3) CAN BE USED. THEY ARE CONFIGURED IN THE THERMOSTAT INSTALLER SETUP.**

WIRING

FAD to Carrier Infinity® System or similar with communicating thermostat and variable speed motor

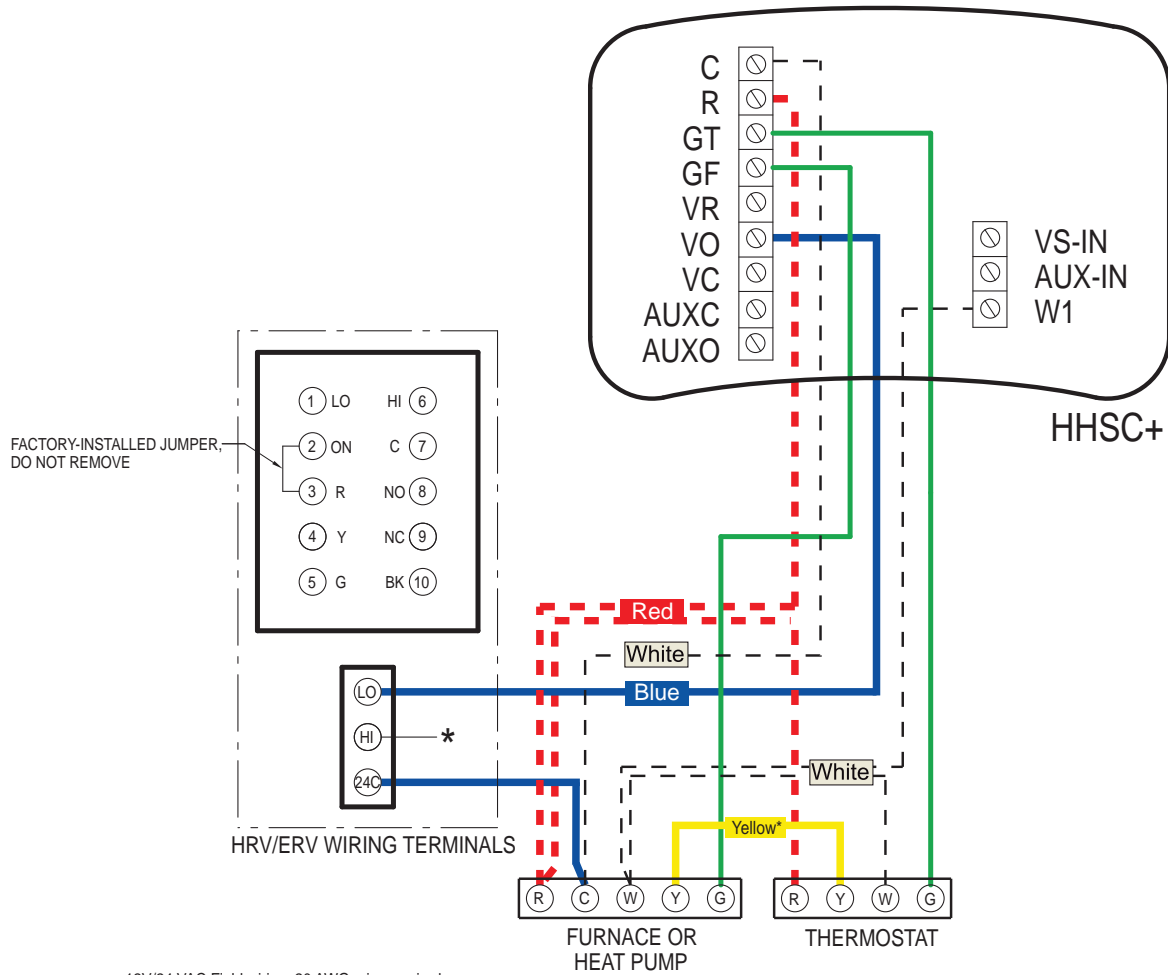
Other compatible systems:
Bryant® Evolution®, Heil® Observer™ Systems,
Tempstar®, Comfortmaker®, Arco Aire®.



Wiring Diagrams

for FAS

HHSC+ to Energy Recover Ventilator (ERV) and Heat Recovery Ventilator (HRV)

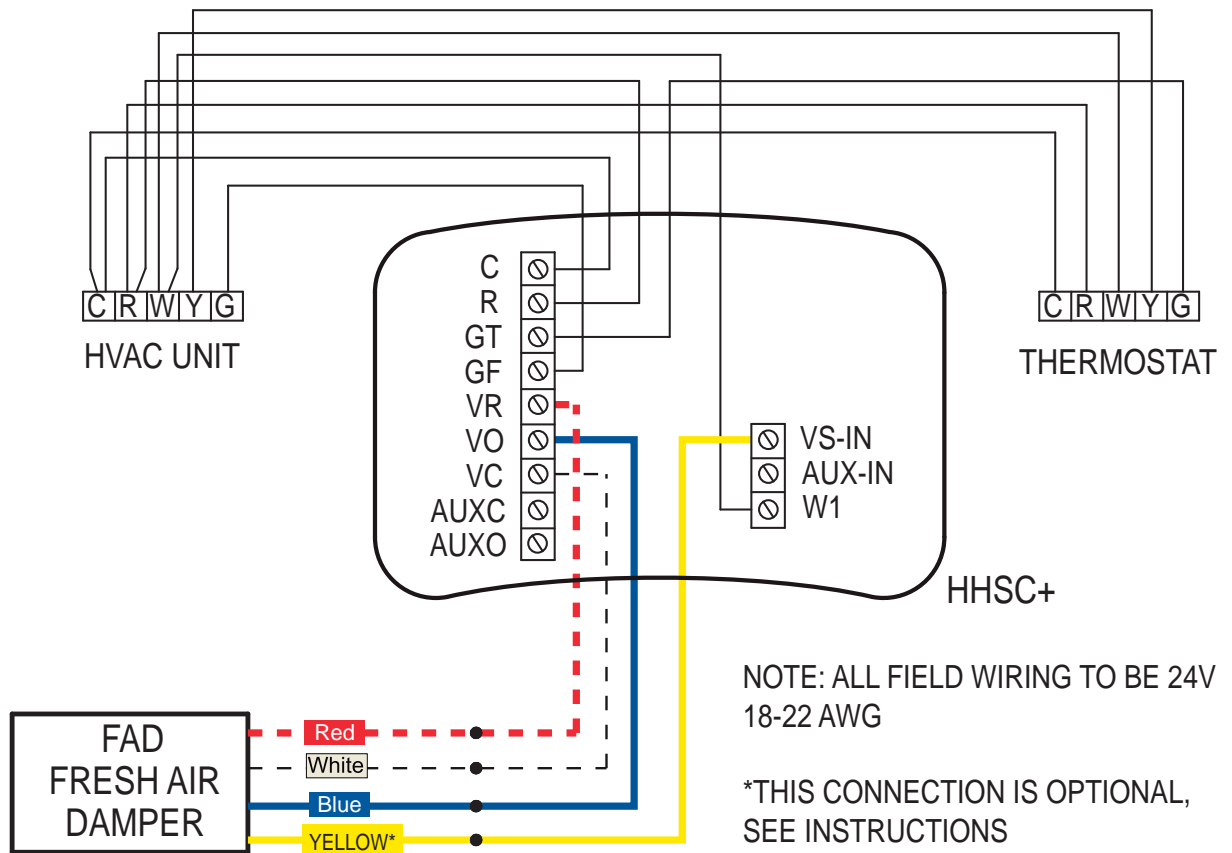


12V/24 VAC Field wiring, 20 AWG min. required.

* V Terminal on the HHSC Control may be connected to the Hi Terminal (instead of Lo) if shorter ventilation periods are desired.

WIRING

FAD-4, 5, 6, 7, 8, 10 to HHSC+



WIRING

Replacement Parts

IAQ SYSTEMS

UV-AIRE® AIR PURIFICATION BALLAST

MODEL	REF.	DESCRIPTION	PART NO.
UV-12	A	Ballast Assembly	46365508
UV-18	A	Ballast Assembly	46365509
UV-28	A	Ballast Assembly	46365513
UV-18X	A	Ballast Assembly	46365503
UV-E	A	Ballast Assembly	46365506
UV-C/HPC	A	Ballast Assembly	46365510
UV-HP	A	Ballast Assembly	46365513
UV-1500C	A	Ballast Assembly	46365514
UV-C	B	Circuit Board	46436300
UV-16/24	C	UV-16/24 Transformer	46529500
UV-13FM	D	Ballast Assembly	46635900
UV-17FM	D	Ballast Assembly	46635900

UV-AIRE® AIR PURIFICATION LAMPS

MODEL	REF.	DESCRIPTION	PART NO.
UV-12, UV-1500C	E	UVC Germicidal Lamp 12"	46365401
UV-16/120, UV-16/24	E	UVC Germicidal Lamp 16"	46511200
UV-18	E	UVC Germicidal Lamp 18"	46365402
UV-28	E	UVC Germicidal Lamp 28"	46365403
UV-500C	E	UVC Germicidal Lamp 8"	46508000
TRIO-1000P	K	UVC Germicidal Lamp 11"	46649700
UV-13FM	E	UVC Germicidal Lamp 13"	46632513
UV-17FM	E	UVC Germicidal Lamp 17"	46632517

PORTABLE UV-AIRE® REPLACEMENT KITS

MODEL	REF.	DESCRIPTION	PART NO.
UV-1500RK	F	Annual Replacement Kit	46453600
UV-500RK	G	Annual Replacement Kit	46474500
UV-1500RF	H	4 Pack Filter Kit	46508300
UV-500RF	I	4 Pack Filter Kit	46507900
TRIO-1000P	J	Replacement Filter Set	46649600
TRIO-1000P	L	Stage 1 Pre-Filter	46649800
TRIO-1000P	M	Stage 2 HEPA Filter	46649900
TRIO-1000P	N	UVC 11" Germicidal Lamp & Filter Set	46650100

A



B



C



D



E



F



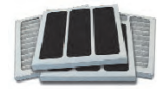
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H



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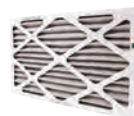
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N



Replacement Parts

MEDIA AIR CLEANER FILTERS

MEDIA AIR CLEANER™ REPLACEMENT KITS

Field Controls

MODEL	REF.	MERV	DESCRIPTION	SIZE (inches)	PART NO.
FCRM8-1625	A	8	Replacement Media - 3 Pack Filter Kit	16 x 25 x 5	46585900
FCRM8-2025	A	8	Replacement Media - 3 Pack Filter Kit	20 x 25 x 5	46586000
FCRM11-1625	A	11	Replacement Media - 3 Pack Filter Kit	16 x 25 x 5	46568500
FCRM11-2020	A	11	Replacement Media - 3 Pack Filter Kit	20 x 20 x 5	46607000
FCRM11-2025	A	11	Replacement Media - 3 Pack Filter Kit	20 x 25 x 5	46568600
FCRM11-1625/3ABC	A	11	Replacement Media for Trion Air Bear Cub - 3 Pack Filter Kit	16 x 25 x 3	46656600

A



Honeywell™

FCRM11-2025/4HW	B	11	Replacement Media for Honeywell 3 Pack Filter Kit	20 x 25 x 4	46656700
FCRM11-1625/4HW	B	11	Replacement Media for Honeywell 3 Pack Filter Kit	16 x 25 x 4	46656800
FCRM11-2020/4HW	B	11	Replacement Media for Honeywell 3 Pack Filter Kit	20 x 20 x 4	46656900
FCRM11-1620/4HW	B	11	Replacement Media for Honeywell 3 Pack Filter Kit	16 x 20 x 4	46657000

B



FLEXFILTER® MANUFACTURER BRAND & MODEL APPLICATION CHART

MODEL	REF.	MERV	FITS MANUFACTURER & MODELS	SIZE (inches)	PART NO.
FLEX-1	C	11	6 Pack Filter Kit for: Field Controls, GeneralAire, Trion, Skuttle, Ultravation	16 x 20 x 5 or 20 x 20 x 5	46600407
FLEX-2	C	11	6 Pack Filter Kit for: Field Controls, GeneralAire, Trion, Skuttle, Ultravation	16 x 25 X 5 or 20 x 25 x 5	46600401
FLEX-3	D	11	6 Pack Filter Kit for: Honeywell F200E1003, F200E1029, F100F2028, F100F2036	16 x 20 x 4 or 20 x 20 x 4	46600406
FLEX-4	D	11	6 Pack Filter Kit for: Honeywell F200E1011, F200E1037, F100F2002, F100F2010, F100F2044 6 Pack Filter Kit for: Carrier/ Bryant EZXCAB1016, EZXCAB1020	16 x 25 x 4 or 20 x 25 x 4	46600405
FLEX-5	E	11	6 Pack Filter Kit for: Aprilaire 201, 210, 213	20 x 25 x 4	46600402
FLEX-6	E	11	6 Pack Filter Kit for: Aprilaire 310, 313	19 x 20 x 4	46600403
FLEX-7	E	11	6 Pack Filter Kit for: Aprilaire 401, 410, 413	16 x 28 x 4	46600404



C D E

PARTS

Replacement Parts

HEALTHY HOME DUO			
MODEL	REF.	DESCRIPTION	PART NO.
17.5LAMP	A	50w 18" Germicidal Replacement Lamp	46636300
BL013	B	High Output Temp. Compensating Ballast	46637100

A



B



HEALTHY HOME TRIO			
MODEL	REF.	DESCRIPTION	PART NO.
TrioRM8-1625	C	16" x 25" x 4" (3.75") MERV 8 Replacement Media for Trio 1200, 6 Pack Filter Kit	46678400
TrioRM11-1625	C	16" x 25" x 4" (3.75") MERV 11 Replacement Media for Trio 1200, 6 Pack Filter Kit	46636800
TrioRM13-1625	C	16" x 25" x 4" (3.75") MERV 13 Replacement Media for Trio 1200, 6 Pack Filter Kit	46636600
TrioRM8-2025	C	20" x 25" x 4" (3.75") MERV 8 Replacement Media for Trio 2000, 6 Pack Filter Kit	46678300
TrioRM11-2025	C	20" x 25" x 4" (3.75") MERV 11 Replacement Media for Trio 2000, 6 Pack Filter Kit	46636700
TrioRM13-2025	C	20" x 25" x 4" (3.75") MERV 13 Replacement Media for Trio 2000, 6 Pack Filter Kit	46636500
22LAMP	D	28w 22" Germicidal Replacement Lamps (two required)	46636400
BL014	E	Electronic Ballast	46636900
BL007	F	12 Volt Transformer	46637000
AL004	G	TiO2 Anatase PCO Honeycomb Catalyst for Trio 1200	46638300
AL006	G	TiO2 Anatase PCO Honeycomb Catalyst for Trio 2000	46638400

C



D



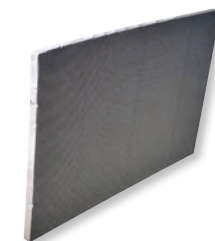
E



F



G



PARTS

Replacement Parts

HUMIDIFIERS

STEAM HUMIDIFIERS			
MODEL	REF.	DESCRIPTION	PART NO.
2120	A	120 Volt Heater Assembly (for Model S2000)	094021A0201
2240	A	240 Volt Heater Assembly (for Model S2020)	094021A0202
2001	B	24 Volt Solenoid Valve Assembly	094021A0203
2002	C	Thermistor Probe Assembly	094021A0205
2003	D	Water Level Probe Assembly	094021A0204
2010	E	120V Circuit Board Assembly (for Model S2000)	094021A0206
2011	E	200V Circuit Board Assembly (for Model S2020)	094021A0207
2006	F	Drain Valve Assembly	094021A0208
2007	G	Tank Baffle	094021A0209
2008	H	Insulation Kit	094021A0210
WH-100	I	Water Hammer Arrestor	090478A0001
Z-100	J	Anode	090421A0211
2009	K	Under Duct Tank Enclosure	090421A0156
APD	L	Air Proving Device	090558A0001
WC-25	M	Steam Treat Water Filter Cartridge	094021A1122
DHS	-	Drain Hose Kit	094024A0001

A



B



C



D



E



F



G



H



I



J



K



L



M



PARTS

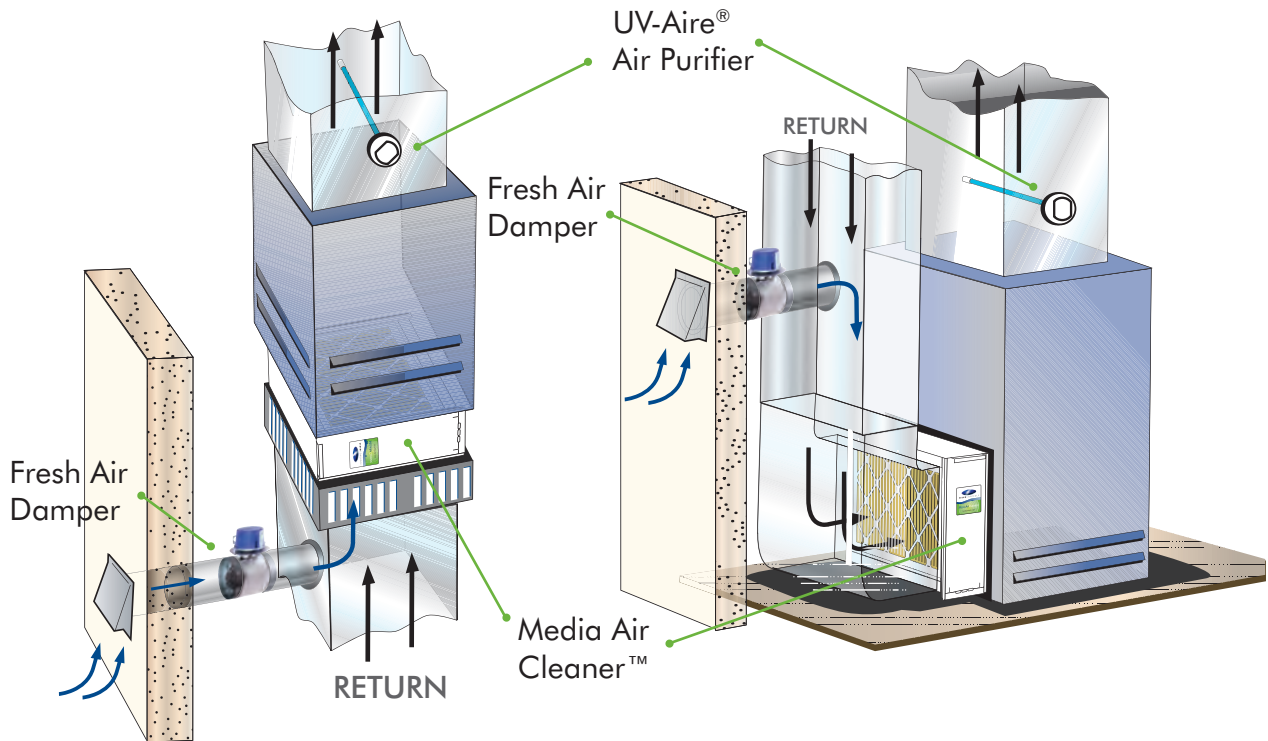
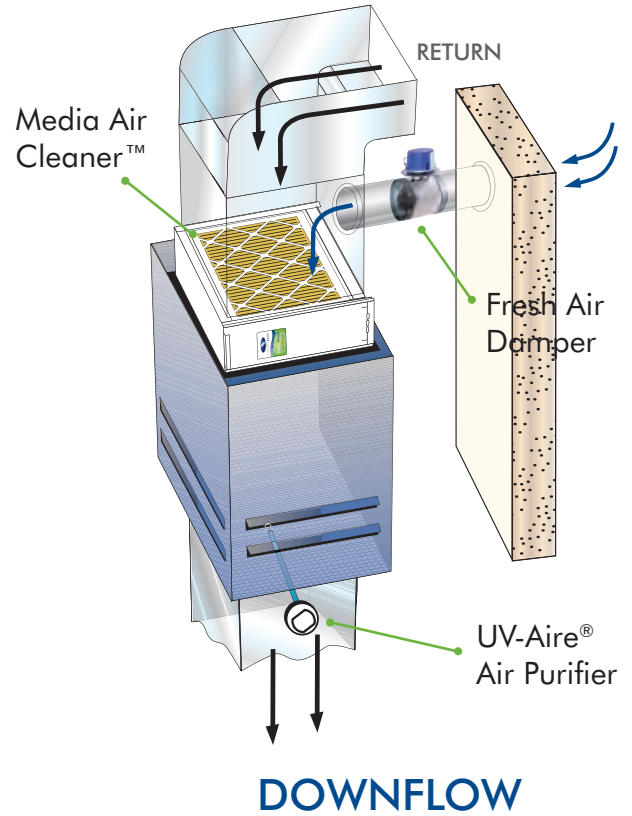
Installation Options

HEALTHY HOME SYSTEM™

The Healthy Home System works in perfect harmony with virtually ANY forced air heating and cooling system. The Fresh Air Damper connects the outside to the system via the return duct, the Media Air Cleaner is installed before the air handler, and the UV-Aire is installed after or above the A-coil.

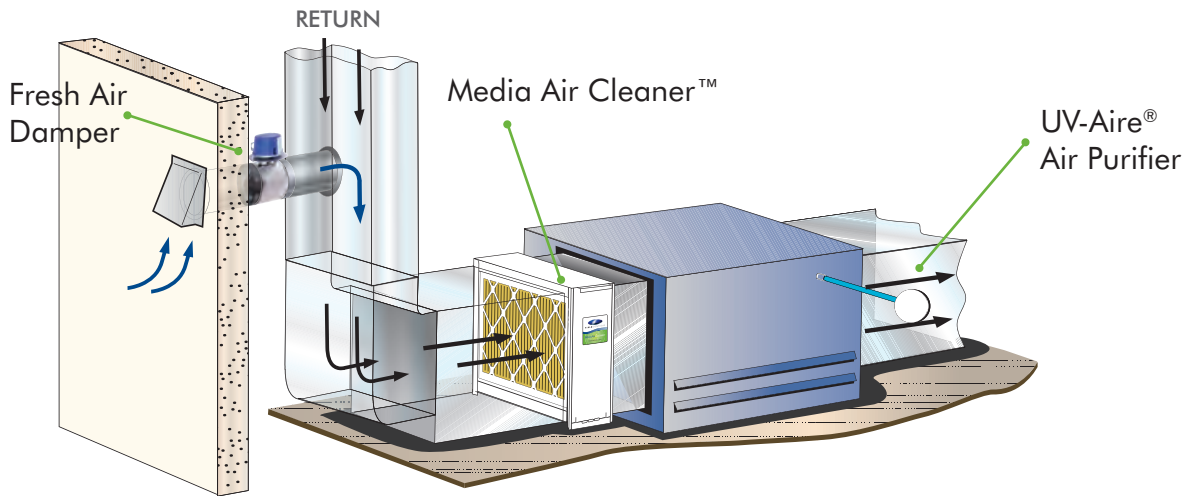
The illustrations show typical component placement in the most popular types of forced air systems.

For illustration only. For detailed installation instructions, refer to the Installation Manual for each component. Manuals are available online at www.fieldcontrols.com/manuals-diagrams.

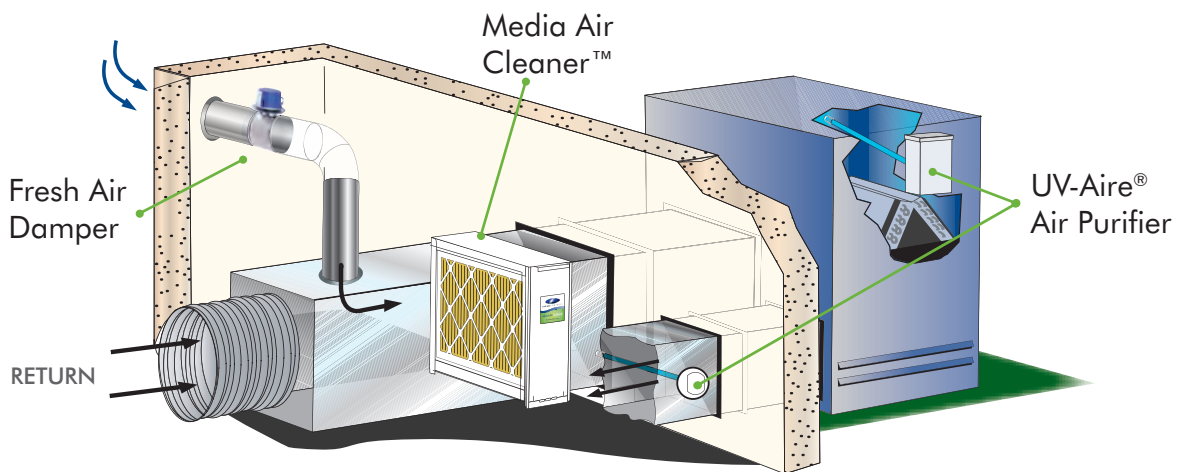


INSTALLATION

UPFLOW



HORIZONTAL

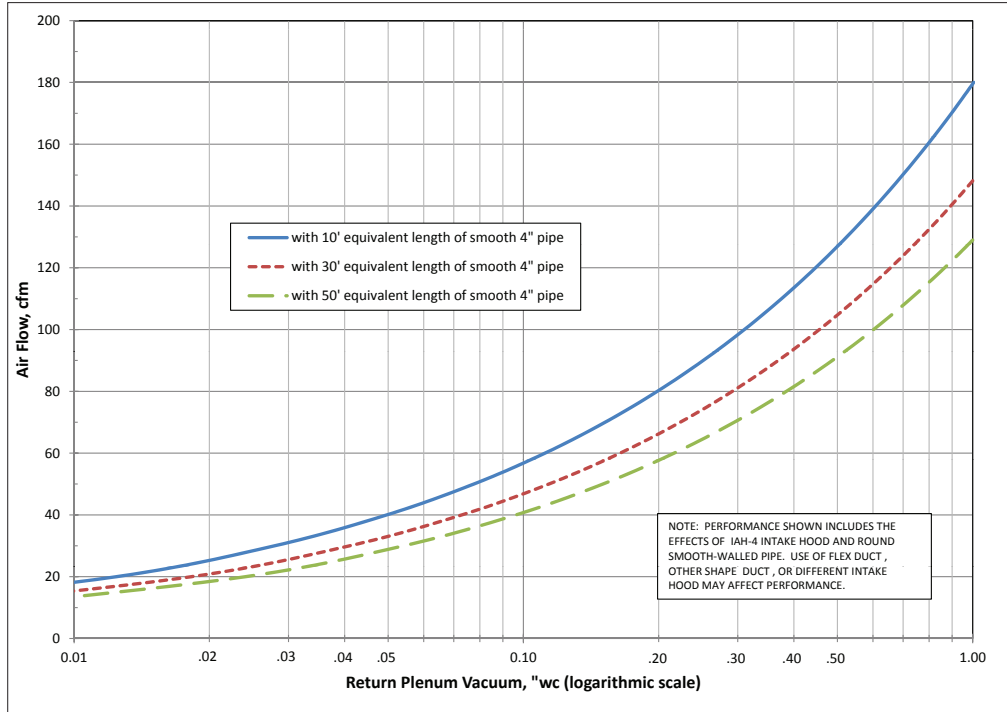


EXTERNAL HEAT PUMP or GAS PACK

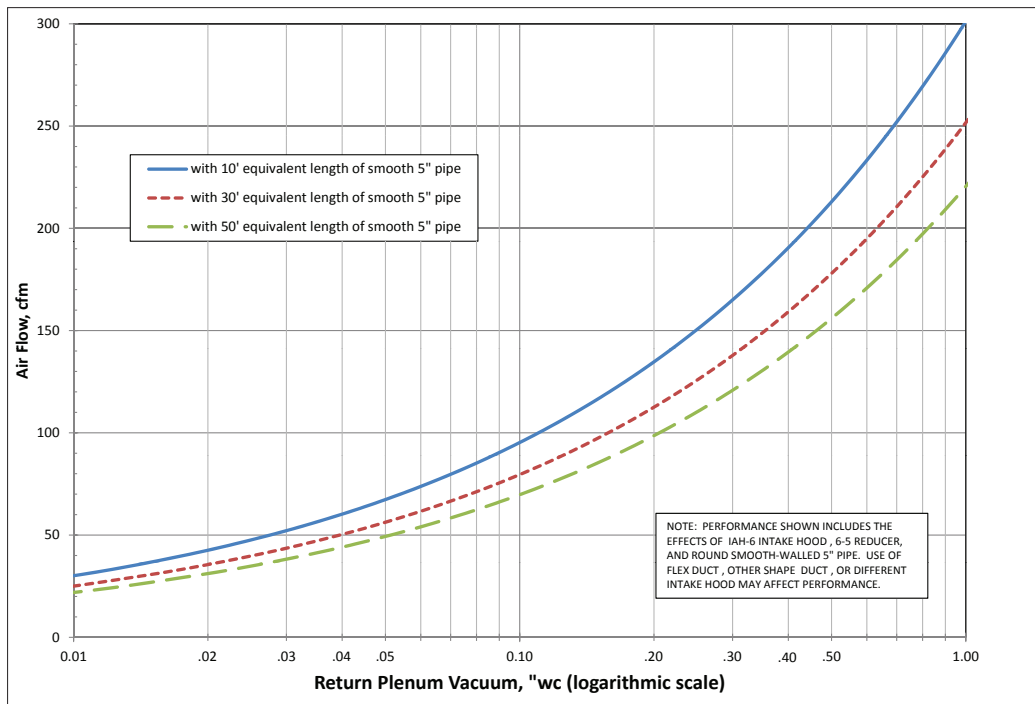
Performance Charts

FRESH AIR SYSTEM™

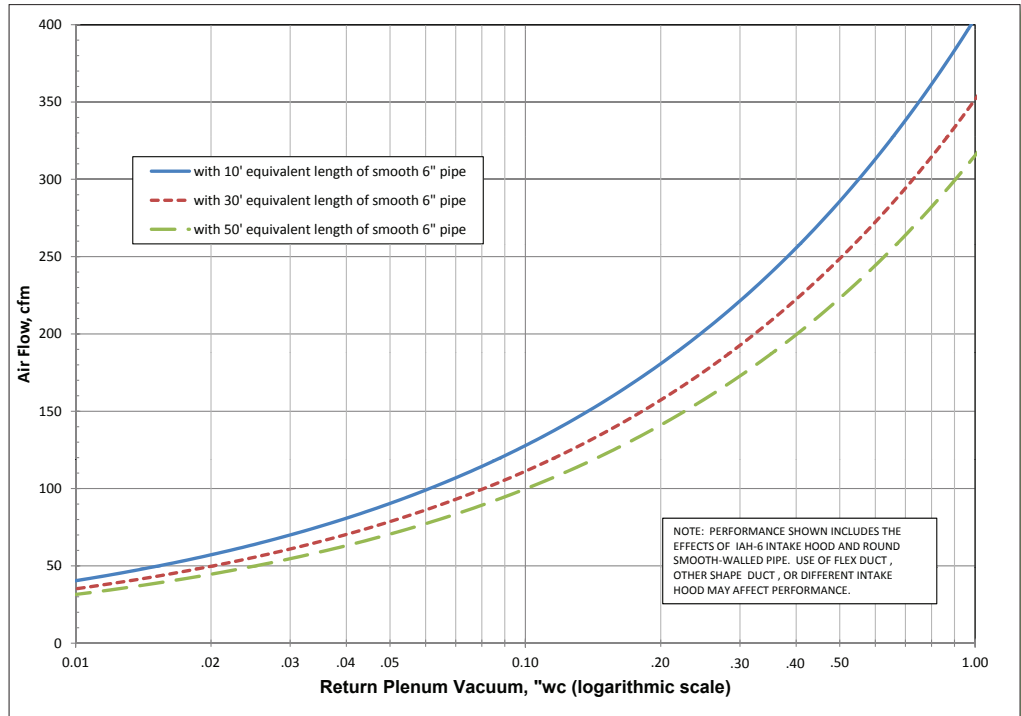
FAS-4 Performance: IAH-4 Intake Air Hood, FAD-4 Damper, and 4" Duct



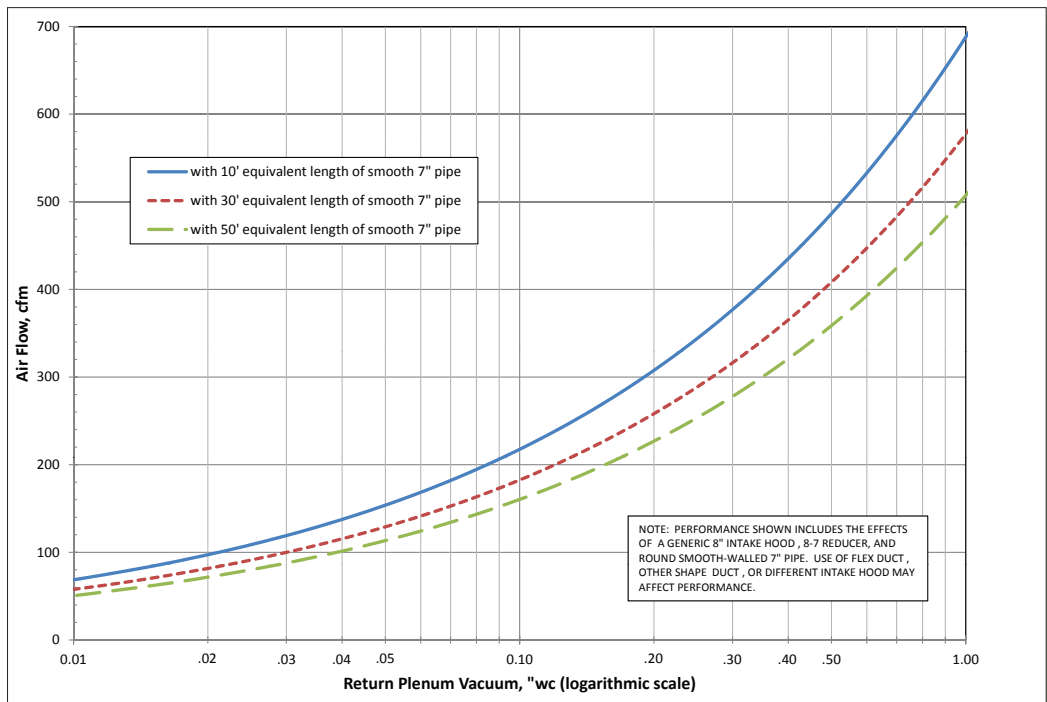
FAS-5 Performance: IAH-6 Intake Air Hood, 6-5 Reducer, FAD-5 Damper, and 5" Duct



FAS-6 Performance: IAH-6 Intake Air Hood, FAD-6 Damper, and 6" Duct



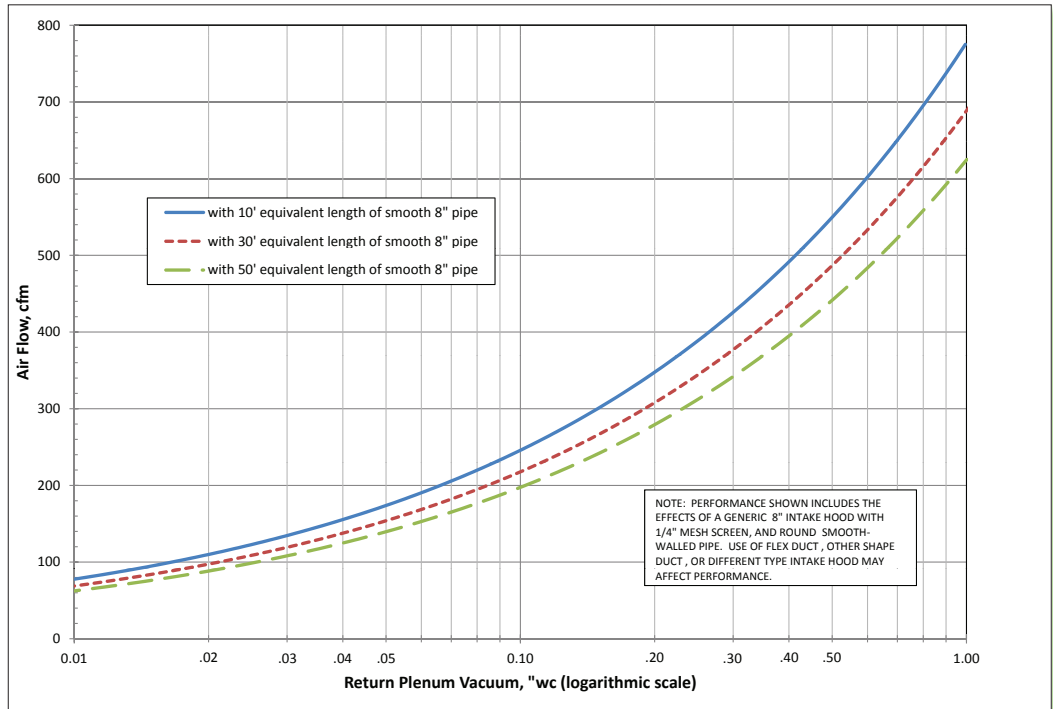
FAS-7 Performance: Generic 8" Intake Air Hood, 8-7 Reducer, FAD-7 Damper, and 7" Duct



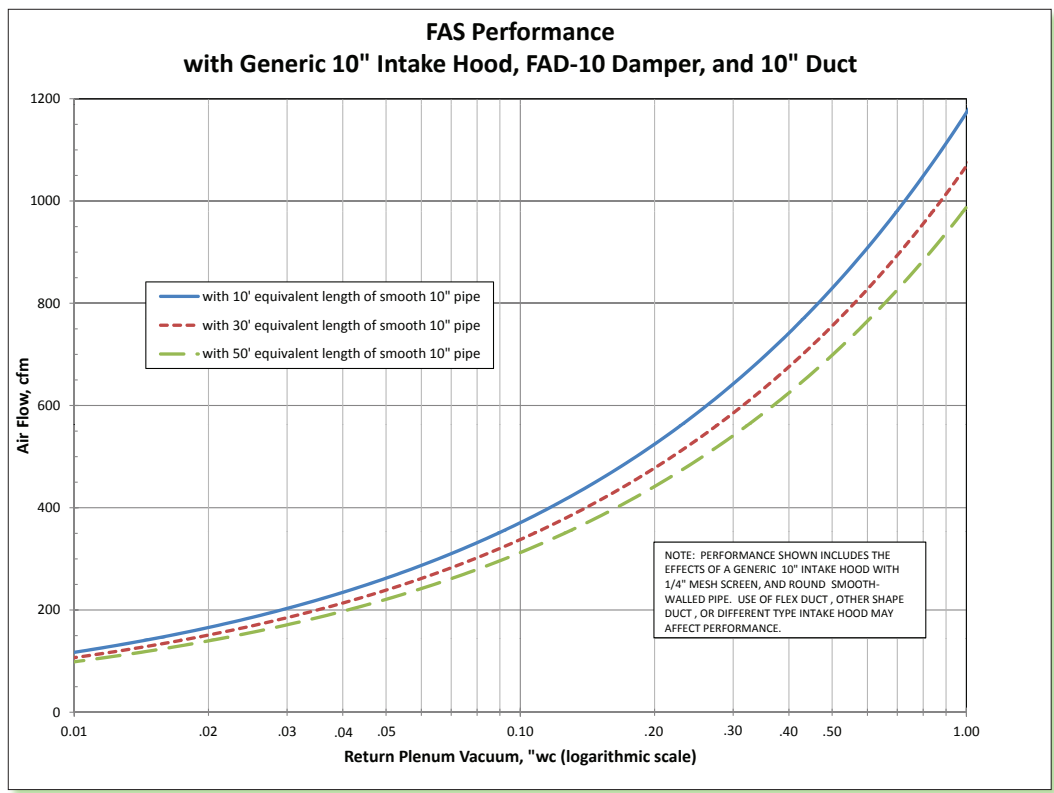
Performance Charts

FRESH AIR SYSTEM™

FAS-8 Performance: Generic 8" Intake Air Hood, FAD-8 Damper, and 8" Duct

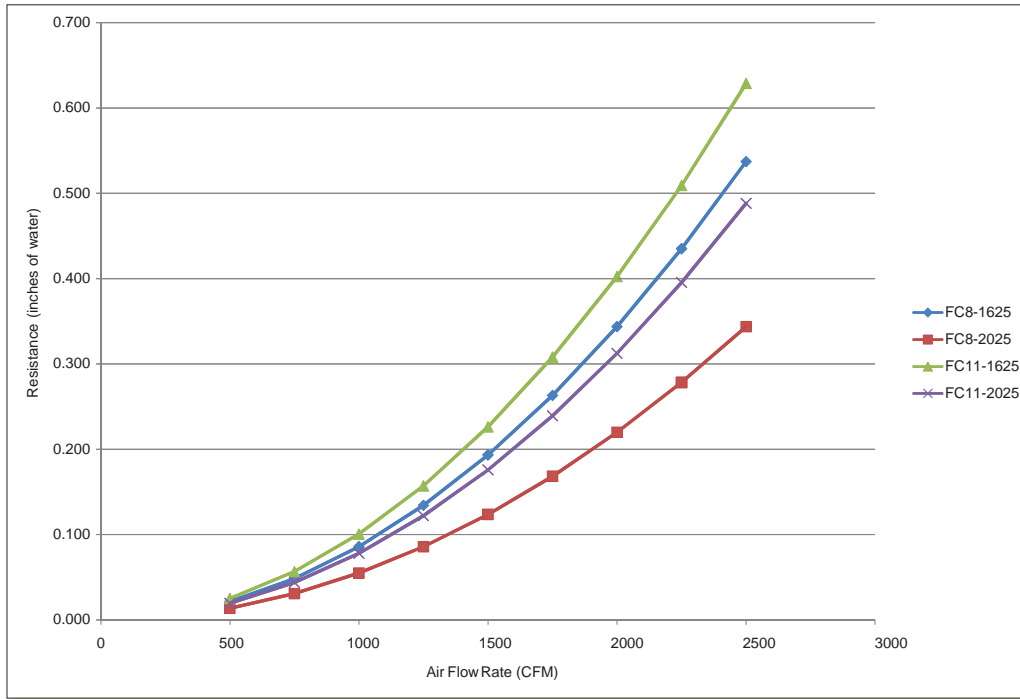


FAS-10 Performance: Generic 10" Intake Air Hood, FAD-10 Damper, and 10" Duct



PERFORMANCE

MAC Performance: Air Flow vs. Resistance



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FIELD CONTROLS

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