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Innovative IAO Solutions



Since 1927, we have led the industry in developing and manufacturing innovative and effective indoor air quality, ventilation, and combustion products. This Air Treatment Products Guide provides product models, descriptions, specifications, and everything you need to keep your customer's HVAC system running efficiently while improving the indoor air quality of their home. Our Healthy Home System® products deliver indoor air that is **CLEAN**, **PURE**, and **FRESH**TM. For specific installation manuals and more information, visit www.fieldcontrols.com.





PURE - UV & H₂O₂



FRESH - PRO-CELL™ TECHNOLOGY

REDUCES ODORS & VOC GASES



PORTABLE - AIR PURIFIERS

TRAPS PARTICLES
REDUCES GERMS, ODORS, & VOCS



COMFORT - HUMIDITY CONTROLS

MOISTURE MANAGEMENT

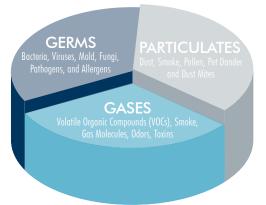
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HEALTHY HOME SYSTEM®

INNOVATIVE IAQ SOLUTIONS

Indoor air is filled with particulates, gases, and germs that can cause illness and aggravate asthma and other respiratory problems. The Healthy Home System® is a whole house indoor air quality solution that leaves air CLEAN, PURE, and FRESH™ by addressing the three main respiratory triggers. What's more, the Healthy Home System® keeps any HVAC system running at top efficiency, which means less maintenance and reduced energy costs.

THREE RESPIRATORY TRIGGERS



According to the U.S. Center for Disease Control (CDC), indoor air contains three types of pollutants: Germs, Particulates, and Gases . This pollution is a major source for allergic reactions.

35% of allergic reactions are due to Particulates

31% of allergic reactions are due to VOCs

34% of allergic reactions are due to Germs

Asthma and allergies strike 1 out of 5 Americans.

- Asthma and Allergy Foundation

THREE SOLUTIONS















HEALTHY HOME SYSTEM®

INNOVATIVE IAQ SOLUTIONS

Upgrade your heating and cooling system with the revolutionary Healthy Home System™ to experience air that goes beyond conditioning-it's a breath of revitalization. The Healthy Home System is designed to create an environment where every inhalation brings a sense of freshness, cleanliness, and purity. By continuously circulating and purifying air, our system transforms your home into a sanctuary of comfort, ensuring that you and your loved ones breathe the best air.



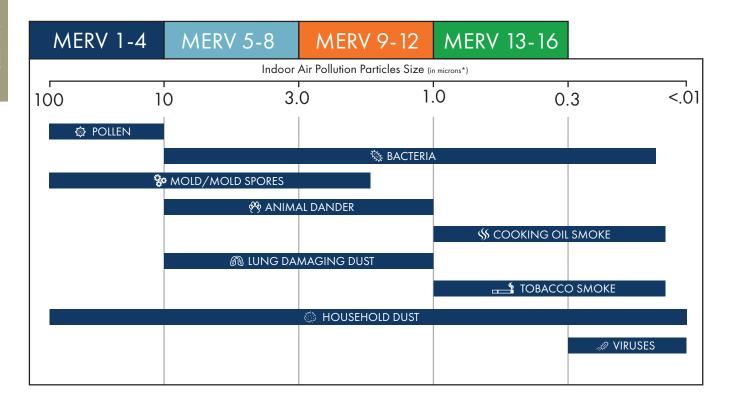
MERV PERFORMANCE & APPLICATION

WHOLE HOUSE AIR FILTRATION WITH A MEDIA AIR CLEANER

The Media Air Cleaner is a whole house air filtration system that combines minimum maintenance with maximum air cleaning capacity. As a part of the Healthy Home System[®]. Field Controls offers Media Air Cleaners with MERV 8, MERV 11, and MERV 13 ratings.

WHAT IS MERV?

Minimum Efficiency Reporting Value, commonly know as MERV rating, is a measurement scale 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. High 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 full range. The graphic below indicates the typical size and type of contaminants and how they correspond to each MERV rating.



REMOVAL EFFICIENCY (BASED ON PARTICLE SIZE)

	0.3 - 1.0 MICRONS	1.0 - 3.0 MICRONS	3.0 - 10.0 MICRONS
MERV 8	<20%	<20%	70% - 85%
MERV 11	<20%	65% - 79%	>85%
MERV 13	<75%	>90%	>90%



REPLACEMENT FILTERS

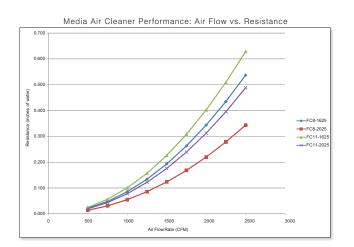


REPLACEMENT MEDIA: HIGH CAPACITY, MINUMUM RESISTANCE

Field Controls MERV 8 or MERV 11 pleated media 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.

DIRECT REPLACEMENT FOR POPULAR MODELS

We also offer direct replacement media cartridges for Honeywell cabinets.



MEDIA AIR CLEANER™ REPLACEMENT MEDIA								
FIELD CONTROLS®, SKUTTLE®, GENERALAIRE®, TRION®, AND ULTRAVATION®								
MODEL	MERV	DESCRIPTION	SIZE (INCHES)	PART#				
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				
		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				
APRILAIRE®								
FCRM11-A1625	11	Replacement Media for Aprilaire 3 Pack Filter Kit	16 x 25 x 5	601605400				
FCRM11-A2020	11	Replacement Media for Aplrilaire 3 Pack Filter Kit	20 x 20 x 5	601605300				
FCRM11-A2025	11	Replacement Media for Aprilaire 3 Pack Filter Kit	20 x 25 x 5	602605200				

MEDIA AIR CLEANERS

DURABLE CABINET & HEAVYSEAL™ FOR MAXIMUM HVAC EFFICIENCY

Our Media Air Cleaners have a durable, attractive powder-coated metal cabinet and a HeavySealTM design that ensures no leakage around the filter or ductwork, protecting and prolonging HVAC efficiency.

HIGH CAPACITY, MINIMUM MEDIA RESISTANT

Our Media Air Cleaners use high-efficiency MERV 11 filters with depth loading to capture larger and smaller particles, extending filter and minimizing pressure drop. The electrostatically charged, hydrophobic media enhances efficiency and resists moisture, inhibiting bacterial growth.

HIGH EFFICENCY FILTRATION

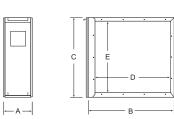
The Field Controls Media Air Cleaner is installed in the return air duct before the furnace and air handler. It traps airborne particles within the filter media, capturing up to 100 times more particles than traditional filters while maintaining efficiency and compliance with ASHRAE Standard 52.2.

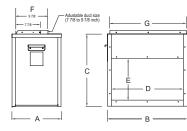


FEATURES

- HeavySeal[™] forces air through the filter
- Easy filter replacement
- Installs into central HVAC system
- Includes a high-efficency MERV 11 filter trapping particles as small as 1.0 micron, including pollen, dust, mold, & dander
- Meets ANSI/ASHRAE 52.2 standards
- · Heavy-duty metal construction
- Suitable for residential and commercial systems up to five tons







FC8 AND FC11 MEDIA AIR CLEANER CABINET FCRA11-2025 RIGHT ANGLE CABINET

					DUCT OP	ENING	
MODEL	A	В	C	D	E	F	G
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	-	-
FC-A1625	6 3/4	28 3/50	17 3/4	23 22/25	15 11/25	-	-
FC-H1625	7 1/8	24 7/8	17 ³ / ₈	22	15 ³ / ₈	-	-
FC11-2020HS	7 1/8	20 3/4	21 3/8	17 13/16	19 ³/ ₈	-	-
FC-A2020	6 3/4	20 3/50	20 19/50	15 22/25	18 3/50	-	-
FC-H2020	7 1/8	19 ⁷ /8	21 ³ / ₈	17	19 ³ / ₈	-	-
FC-A2025	6 3/4	25 ¹³/₅₀	22 3/50	21 19/100	19 3/4	-	-
FC-H2025	7 1/8	24 7/8	21 3/8	22	19 ³ / ₈	-	-



CUSTOM CABINETS

CUSTOM CABINET PROGRAM AND PRIVATE LABELING*

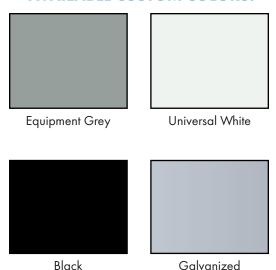
Field Controls offers custom paint colors and private labeling for our Media Air Cleaner cabinets. Choose from colors that match OEM equipment throughout the industry. Media Air Cleaner cabinets can also be private labeled with your logo and contact information.

All Custom Color Media Air Cleaner cabinets are equipped with HeavySealTM which is designed to create a super tight enevelop that focuses air to and through the filter. Custom Colors are available for the entire metal cabinet or just the cabinet door. We can also supply a Custom Color cabinet with a MERV 8 or MERV 11 media cartridge pre-installed.





AVAILABLE CUSTOM COLORS:



CUSTOM PRIVATE LABELING

*Built to order, allow 6-8 weeks for delivery. 2 pallet per ,odel of 6 pallet minimum order ratio requirements, call for details.

	CUSTOM MEDIA AIR CLEANER CABINET SPECIFICATIONS						
MODEL	DESCRIPTION	PART#	MEDIA AIZE (INCHES)				
FC2025-LMCC	20 x 25 Filter Cabinet	46650200	20 H x 25 W x 5 D				
FC1625-LMCC	16 x 25 Filter Cabinet	46650300	16 H x 25 W x 5 D				
FC2020-LMCC	20 x 20 Filter Cabinet	46650400	20 H x 20 W x 5 D				
HW2025-LMCC	Honeywell® 20 x 25 Filter Cabinet	46650600	20 H x 25 W x 4.375 D				
HW1625-LMCC	Honeywell [®] 16 x 25 Filter Cabinet	46650700	16 H x 25 W x 4.375 D				
HW2020-LMCC	Honeywell® 20 x 20 Filter Cabinet	46650800	20 H x 20 W x 4.375 D				
HW1620-LMCC	Honeywell [®] 16 x 20 Filter Cabinet	46650900	16 H x 20 W x 4.375 D				
HW2520-LMCC	Honeywell [®] 25 x 20 Filter Cabinet	46690000	25 H x 20 W x 4.375 D				
FC2025-LMCC3.75	20 x 25 Filter Cabinet Accepting TRIO 3.75 inch Wide Media	46660001	20 H x 25 W x 3.75 D				
FC1625-LMCC3.75	16 x 25 Filter Cabinet Accepting TRIO 3.75 inch Wide Media	46660101	16 H x 25 W x 3.75 D				
FCRA2025-LMCC	Right Angle Heavy Gauge Air Cleaner Cabinet 20 x 25 x 5 media	46660301	20 H x 25 W x 5 D				

FLEXFILTER®

FLEXFILTER® REPLACES ALL MAJOR BRANDS

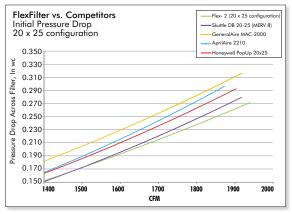
Field Controls' patented FlexFilter replacement media are collapsible and compact. They take up very little space and are shrink wrapped to reduce damage on the truck. Most FlexFilter models are two different size filters in one. FlexFilter is easy-to-assemble and features high-efficiency MERV 11 and MERV 13 media with minimal pressure drop.

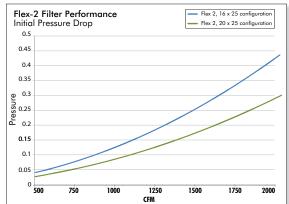
Every FlexFilter includes a plastic bag for disposal of the dirty filter. This ensures dust and dirt are not tracked through the homeowner's house nor will it blow around in your truck. FlexFilters come in 9 models with color coded labels to directly replace name-brands such as Aprilaire (Blue), Honeywell (Red), Carrier (Red), Trion (Green), GeneralAire (Green), Skuttle (Green), and more.

FEATURES

- Patented 2-in-1 expandable filter design
- High-efficency MERV 11 & 13
- · Compact design protects filter from damage
- · Saves time and money with improved inventory management
- Includes a bag for convenient disposal of old filter







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Flexible

OR

16"



FLEXFILTER® REPLACEMENT GUIDE							
BRAND	FILTER MODEL	SIZE (INCHES)	FITS AIR CLEANER MODEL	REPLACEMENT FLEX MODEL	PART #		
	FCRM11-2020	20 x 20 x 5	FC11-2020	FLEX-1 M11 FLEX-1 M13	46600407 602612201		
FIELD CONTROLS®	FCRM11-1625	16 x 25 x 5	FC8-1625 / FC11-1625				
CONTROLS	FCRM11-2025	20 x 25 x 5	FC8-2025 / FC11-2025 FCRA11-2025	FLEX-2 M11 FLEX-2 M13	46600401 602612202		
	000-0448-007 (003)	20 x 20 x 5	DB-20-20	FLEX-1 M11	46600407		
CVIITIE®	000-0448-008 (004)	16 x 20 x 5	DB-20-16	FLEX-1 M13	602612201		
SKUTTLE®	000-0448-005 (001)	16 x 25 x 5	DB-25-16	FLEX-2 M11	46600401		
	000-0448-006 (002)	20 x 25 x 5	DB-25-20	FLEX-2 M13	602612202		
	5FM2020 (4531)	20 x 20 x 5	MAC2020 / MAC2020M	FLEX-1 M11 FLEX-1 M13	46600407 602612201		
GENERALAIRE®	5FM1625 (4511)	16 x 25 x 5	MAC1400 / MAC1400M	FIFY A MIL			
	5FM2025 (4501)	20 x 25 x 5	MAC2000 / MAC2000M MAC-L	FLEX-2 M11 FLEX-2 M13	46600401 602612202		
	255649-103 / 259112-113	20 x 20 x 5	455602-225 / 455602-725	FLEX-1 M11 FLEX-1 M13	46600407 602612201		
TRION®	255649-105 / 259112-105	16 x 25 x 5	455602-125 / 455602-625				
	255649-102 - 259112-102	20 x 25 x 5	455602-025 / 455602-525 266380-010 / 266380-510 447380-010 / 477380-510	FLEX-2 M11 FLEX-2 M13	46600401 602612202		
	91-013	20 x 20 x 5	90-116	FLEX-1 M11	46600407		
	91-012	16 x 20 x 5	90-115	FLEX-1 M13	602612201		
ULTRAVATION®	91-005	16 x 25 x 5	90-106				
		İ	90-107	FLEX-2 M11 FLEX-2 M13	46600401 602612202		
	91-006	20 x 25 x 5	90-064 / 90-027	FLEX-2 M IS	002012202		
	POPUP1620	16 x 20 x 4	F100F2028 / F200E1003				
	FC100A1003	16 x 20 x 4	F100F2028		46600406 602612203		
	FC200E1003	16 x 20 x 4	F200E1003	FLEX-3 M11			
	POPUP2020	20 x 20 x 4	F100F2036 / F200E1029	FLEX-3 M13			
	FC100A1011	20 x 20 x 4	F100F2036				
HONEYWELL®	FC200E1011	20 x 20 x 4	F200E1029				
HONET WELL	POPUP1625	16 x 25 x 4	F100F2002 / F200E1011				
	FC100A1029	16 x 25 x 4	F100F2002				
	FC200E1029	16 x 25 x 4	F200E1011	FLEX-4 M11	46600405		
	POPUP2025	20 x 25 x 4	F100F2010 / F200E1037	FLEX-4 M13	602612204		
	FC100A1037	20 x 25 x 4	F100F2010				
	FC200E1037	20 x 25 x 4	F200E1037				
	EXPXXFIL0016	16 x 25 x 4	EZXCAB1016				
CARRIER®	EXPXXFIL0316	10 % 20 % 4	EZVOARIOIO	FLEX-4 M11	46600405		
BRYANT [®]	EXPXXFIL0020	20 x 25 x 4	EZXCAB1020	FLEX-4 M13	602612204		
	EXPXXFIL0320	20 / 20 / 4	EZNOABTOZO				
DAIKIN® GOODMAN®	AMP-11-1625	16 x 25 x 4	DIAKIN AM11-1625-FB	FLEX-4 M11 FLEX-4 M13	46600405 602612204		
	201	20 x 25 x 4	2200, 2120	FLEX-5 M11 FLEX-5 M13	46600402 602612205		
	210	20 x 25 x 4	1210, 2210, 3210, 4200,	FLEX-5.5 M11	46600408		
	213	20 x 25 x 4	1213, 2120 + 1213	FLEX-5.5 M13	602612215		
APRILAIRE®	310 313	19 x 20 x 4	1310, 2310, 3310, 4300	FLEX-6.5 M11 FLEX-6.5 M13	46600409 602612216		
	401		2400, 2140	FLEX-7 M 11 FLEX-7 M 13	46600404 602612207		
	410	16 x 28 x 4	1410, 2410, 3410, 4400,	FLEX-7.5 MERV 11	46600410		
	413	1	1413, 2140 + 1413	FLEX-7.5 MERV 13	602612217		

PURE - UV

INDEPENDENT LAB TESTING

LAB TEST

Microbe Management, Inc, a testing agency in Greenville, NC, has conducted three separate tests to examine UV's effect on indoor air quality. The test results concluded that UV is an integral part of a whole house approach to improving Indoor Air Quality

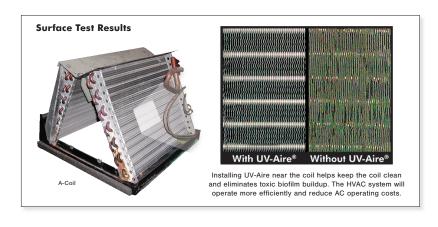
BACKGROUND: ATTACK THE SOURCE

Experts agree 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. 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



BACKGROUND: ATTACK THE SOURCE

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, Ph.D., 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



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

UV-Aire air purifiers in the Lab

We have three independent studies on the efficiency and effectiveness of the UV-Aire. For details, contact us or go to fieldcontrols.com and search "How Effective is UV for Air Purification?" and download the report.



SINGLE PASS AND CUMULATIVE TEST

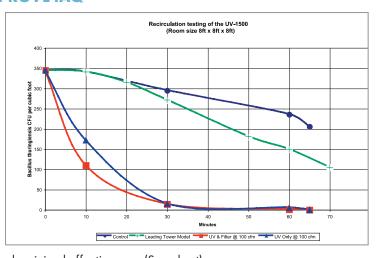
Bacteria and viruses are introduced into the building by its occupants and often cannot be controlled at the source. Therefore, it is important to attack these airborne contaminants early and often, before they have an opportunity to multiply. The single pass test proves that UV effectively neutralizes airborne microorganisms in the duct. Since HVAC systems typically re-circulate the air 75-150 times per day, a multi-pass, cumulative test was also conducted. Results demonstrate that repeated, multi-pass exposure to UV light dramatically reduces the concentration of bacteria and viruses throughout the home.

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.

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 Kane, "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 30 minutes." Similarly, the leading



consumer UV "tower" model was also tested, but showed only minimal effectiveness. (See chart)

AN EFFECTIVE PART OF "WHOLE HOUSE" SOLUTION

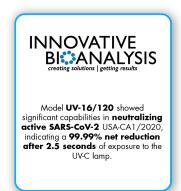
A-Coil irradiation, single pass, and cumulative tests confirm that UV is an important and effective contributor to a healthier home environment. UV technology used with a quality filter (MERV rated 8 or higher) will dramatically improve Indoor Air Quality. Additionally, portable units can be used in 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 indoor air quality. Also, health care professionals, teachers, and day-care workers can benefit from additional UV protection from influenza and other viruses.

PURE - UV

UV-AIRE™

UV-AIRE® AIR PURIFIER MODELS

UV-Aire whole house air purifiers feature a powerful, energy efficient UVC germicidal lamp. The compact design allows for easy installation in tight spaces. With over 6 models to choose from and over 100,000 units sold, UV-Aire purifiers are proven to be reliable, durable and effective. There are a variety of units to choose from and all units are UL listed. To maximize effectiveness, UV lamps should be replaced every year.



UV-16/120

- 120 volt
- Compact Design
- Twist-n-Lock with safety switch
- Easy lamp replacement
- Ballast mounted in the power head. Eliminates need for mounting and wiring of ballast to the UV bulb
- · Viewport to see it working

UV-12, UV-18

- Hinged cover for easy accessibility
- Includes patented angle bracket and duct board mounting kit
- Installs easily and plugs into a standard 120v outlet
- Easy lamp replacement
- · Viewport to see it working



ALL MODELS INCLUDE:

Lamp, Patented Angle Bracket, and Duct Board Mounting Kit. UV-16/120 includes a Deflector Shield.



UVX-16/120 AND UVX-16/24

The UVX In-Duct UV Air Cleaning System is your ultimate solution for cleaner, healthier indoor air. The powerful UVC lamp is effective against bacteria, viruses, and fungi*. UVX goes beyond just addressing germs in the air. It also ensures the cleanliness of AC-coils, those notorious breeding grounds for mold and toxic biofilm. By strategically placing a UV lamp near the AC-coil, you can rest assured that your system stays clean and efficient, saving you energy costs, reducing maintenance hassles, and extending the lifespan of your equipment.



UVX-16/120, UVX-16/24

- 120V and 24V available
- Powerful, high-intensity UVC light
- Built-in Twist-n-Lock safety switch for easy lamp replacement

- Zero Ozone
- Virtually maintenance free
- 10-year limited warranty

^{*} Demonstrated a >99% reduction of virus MS-2 bacteriophage in less than 10 minutes, >99% reduction of bacterium Staphylococcus aureus in less than 5 minutes, and >80% reduction of fungi Aspergillus Niger in 60 minutes.



PURE-UV

UV-AIRETM COMPARISON

	UV-AIRE™ INDUCT AIR PURIFIERS						
	12	0V	24V	12	0V		
	NEW	A Company of the Comp	NEW				
Model	UVX-16/120	UV-16/120	UVX-16/24	UV-12	UV-18		
Part Number	602616121	46510800	602616241	46361701	46361702		
Intensity (µW/cm²@0m)	46,758	21,948	21,948	13,098	25,842		
Intensity (µW/cm²@1m)	132	62	62	43	76		
Lamp Current	800mA	425mA	425mA	425mA	425mA		
Lamp Power	36W	21W	21W	15W	22W		
Lamp Materials	Quartz, Ceramic	Soft Glass, Plastic	Quartz, Ceramic	Soft Glass, Plastic	Soft Glass, Plastic		
Lamp Life	2 Year	1 Year	2 Year	1 Year	1 Year		
Replacement Method	Updated Turn-Lock Design	Turn-Lock Design	Updated Turn-Lock Design	Removable Plastic Cover	Removable Plastic Cover		
Power Cable Length	10'	6'	10'	6'	6'		
Power Connection	NEMA 5 15P Plug	NEMA 5 15P Plug	Pigtail Wires	NEMA 5 15P Plug	NEMA 5 15P Plug		
Lamp Cable Length	4'	N/A	4'	N/A	N/A		
Voltage	100-230 VAC	120V	24V	120V	120V		
Frequency	50/60 Hz	60 Hz	50/60 Hz	60 Hz	60 Hz		
Current	1.2A	0.5A	2.6A	0.5A	0.5A		
Power	140-324W	30W	70W	30W	30W		
Carton Dimensions	22 ⁵ / ₈ x 5 ¹ / ₂ x 4 ¹ / ₈	21 ⁵ / ₈ x 4 ¹ / ₂ x 7 ¹ / ₂	22 ⁵ / ₈ x 5 ¹ / ₂ x 4 ¹ / ₈	21 ⁵ / ₈ x 7 ¹ / ₂ x 4 ¹ / ₂	21 ⁵ / ₈ x 7 ¹ / ₂ x 4 ¹ / ₂		
Mounting Plate Dimensions	2.45" x 3.25"	4.5" x 5.5"	2.45" x 3.25"	8.5" x 4"	8.5" x 4"		
Power Head Protrusion from Duct	2.38"	3.58"	2.38"	3.5"	3.5"		

PURE - UV

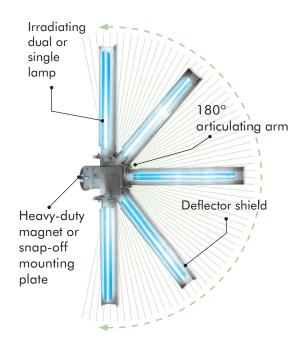
FLEXMOUNT UVTM

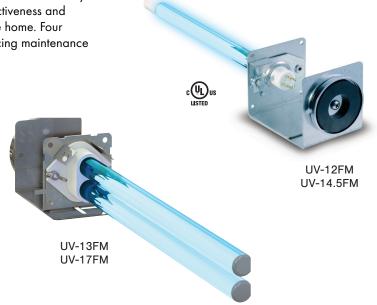
PATENTED, VERSATILE AND ECONOMICAL

The FlexMountUV is designed for fast, flexible, easy installation into virtually any forced air ductwork to maximize HVAC operating effectiveness and significantly reduce germs, bacteria, and mold spores in the home. Four models for any application, saving you energy costs, reducing maintenance hassles, and extending the lifespan of your equipment.

FEATURES

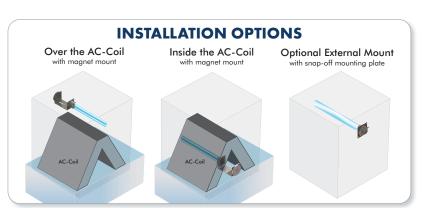
- Installs fast with mounting magnet or snap-off mounting plate option
- · High output single and dual UVC lamp models
- · Patented 180° articulating bracket
- Includes deflector shield, ballast, water resistant cable, and viewport
- Ideal for applications where mounting space is limited
- Zero Ozone





ALL MODELS INCLUDE:

Lamp, Shield, Mounting Plate/Magnet, Viewport, and Remote Ballast.



UV-AIRE® IN-DUCT MODEL SPECIFICATIONS								
MODEL	LAMP CONFIGURATION	LAMP LENGTH (INCHES)	VOLTAGE	LAMP WATTAGE	LAMP INTENSITY	SIZING (TONS)	TRANSFORMER REQUIRED	
UV-12FM	Single Lamp	11.9	24	15	43	1.5 to 3.0	20VA	
UV-13FM	Twin Lamp	12.6	24	24	65	1.5 to 3.0	40VA	
UV-14.5FM	Single Lamp	14.1	24	17	54	1.5 to 5.0	20VA	
UV-17FM	Twin Lamp	16.3	24	36	110	1.5 to 5.0	50VA	



PURE-UV

AIROW 3 HYDROGEN PEROXIDE AIR CLEANER

HYDROGEN PEROXIDE AIR CLEANER

TADIRAN AIROW 3™: Advanced Hydrogen Peroxide Air Treatment System for mini-split AC systems and ceiling cassettes. Targets SARS-CoV-2, viruses, bacteria, and mold*. Robust design for safe, ion-free operation, minimal maintenance, and plug-and-play installation.

FEATURES

- · Installs fast with mounting magnet or snap-off mounting plate option
- · High output single and dual UVC lamp models
- · Patented 180° articulating bracket
- Includes deflector shield, ballast, water resistant cable, and viewport
- Ideal for applications where mounting space is limited



IDEAL FOR:

- Mini-Splits
- Cassettes
- VRF



HOW IT WORKS

TADIRAN AIROW 3^{TM} uses a discharge current to break apart oxygen (O_2) molecules into two separate atoms. The free oxygen atoms combine with water (H_2O) molecules in the airflow and transform into purifying Hydrogen Peroxide (H_2O_2). The H_2O_2 is then distributed into the indoor space by the air conditioning unit. When the H_2O_2 encounters viruses, bacteria, mold, or other airborne contaminants, it breaks down the exterior structures, thus inactivating and reducing aerosol pathogens.

BIOAEROSOL TYPE	BIOAEROSOL TYPE	TESTING LAB	RESULTS
BACTERIA	Streptococcus pyogenes (Group A) Chamber size: 36m³, after 120 min Staphyloccocus Epidermis vegetative (+) Chamber size: 1m³, after 60 min	Innovative Bioanalysis Labs, USA Aerosol Research and Engineering Laboratories, USA	100% 99.994%
VIRUS SARS-CoV-2 Chamber size: 16m3, after 60 min		Innovative Bioanalysis Labs, USA	99.93%
VIRUS RNA Virus MS2 Bacteriophage Chamber size: 1m3, after 60 min		Aerosol Research and Engineering Laboratories, USA	99.994%
MOLD SPORE Blue Mold (Penicillium Citrinum) Aerosolized Chamber size: 25m³, after only 3 hours		Kitazao Laboratory, Japan	99.4%
OZONE EMISSION UL 867 Section 40		INTERTEK	<5 ppb Tested

- 1 TADIRAN AIROW 3 device was tested in the US-based internationally recognized laboratory Innovative Bioanalysis, which is BSL3 accredited.
- 2 AIROW 3 reduced the aerosol of Streptococcus pyogenes in 36 cubic meter test chamber, by 100% within 120 min.
- 3 Independent tests commissioned by Tadiran showed that TADIRAN AIROW™ technology eliminated known aerosolized pathogens under optimal testing conditions. To learn more about the tests, visit www.tadiran-international.com/scientific-testing.
- 4 Only qualified and licensed HVAC technicians may install TADIRAN AIROW.
- 5 AIROW 3 is verified as zero ozone. Does not emit more than 0.005PPM as tested per UL 867.
- 6 World Health Organization EPA report on the environment https://www.epa.gov/report-environment/indoor-air-quality. Pre COVID-19.

- 7 AIROW 3 reduced detected SARS-CoV-2 aerosol levels by 99.93% within 1 hour (16 cubic meter test chamber).
- 8 AIROW 3 reduced MS2 levels by 99.994% in 1 hour (1 cubic meter test chamber).
- 9 AIROW 3 reduced detected Bacteria Staphylococcus epidermidis aerosol levels by 99.994% within 1 hour (1 cubic meter test chamber)
- 10 AIROW 3 reduced Aerosol of Blue Mold by 99.4% within 3 hours in a 25m³ chamber.
- 11 AIROW 3 creates <15 ppb H2O2 based on a test conducted by LSC Laboratory inc.
- 12 AIROW 3, tested by TUV and Intertek, does not emit more than 0.005PPM
- 13 All pictures shown are for illustration purposes only. Actual product may vary.

PURE - UV

COMMERCIAL UV AIR PURIFIER

IMPROVING INDOOR ENVIRONMENTS

The Commercial UV Air Cleaning System is meticulously designed to stop the buildup of toxic biofilm on AC coils, effectively reducing airborne germs, viruses, and bacteria. Musty odors and the notorious "dirty sock syndrome" are common challenges faced in air handlers and rooftops. The air conditioning coil, pivotal to HVAC systems, can easily become a breeding ground for mold and fungi, fostering the growth of toxic biofilm that not only diminishes operational efficiency but also deteriorates indoor air quality, creating an unhealthy environment for occupants.



FEATURES

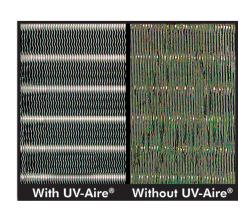
- Powerful lamp intensity ranging from 278 780
 µW/cm²@1m for effective air treatment
- · Prevents biofilm growth on AC coils
- Reduces airborne viruses, bacteria, mold, and fungi
- Water-resistant, smart auto-sensing ballast for durability
- Zero ozone emissions for safe operation
- 2-year/18,000-hour lamp life
- FEP-coated UVC lamps for shatter-proof protection
- UL Listed for safety and reliability
- Optional UVC interlock switch for shut-off during service
- Optional liquid crystal display for real-time lamp and ballast status
- 5-year limited warranty

HOW IT WORKS

The Commercial UV Air Cleaning System emits high-output UVC energy at 253.7 nanometer wavelength, providing cost-effective coil irradiation and air treatment without producing hazardous ozone. The high-intensity UVC lamp reduces microbiological contaminants like fungi, mold, bacteria, and viruses found within the HVAC system. This results in mold-free coils, toxin-free indoor air, and optimized airflow, ensuring peak HVAC equipment efficiency.

KEEPS AC-COILS CLEAN

The Commercial UV not only reduces airborne contaminants, but also maintains the cleanliness of AC-coils. AC-coils situated in moist and dark environments, serve as ideal breeding grounds for mold and toxic biofilm. These contaminants release germs into the air with every system cycle. Placing a UVC lamp near the AC-coil prevents build up, ensuring efficient AC system operation. This efficiency saves on energy costs, minimizes maintenance needs, and prolongs equipment lifespan.





IMPROVES GAS BOILER EFFICIENCY. KEEPS COLD AIR OUT, WARM AIR IN.

The Commercial UV Air Cleaning System is designed to reduce airborne microbiological contaminants and maintain the cleanliness of AC coils. AC coils, often located in moist and dark environments, become prime breeding grounds for mold and toxic biofilm. These contaminants release germs into the air with every system cycle. By placing a UV lamp near the AC coil, buildup is prevented, ensuring efficient AC system operation. This efficiency translates to energy cost savings, reduced maintenance needs, and extended equipment lifespan.

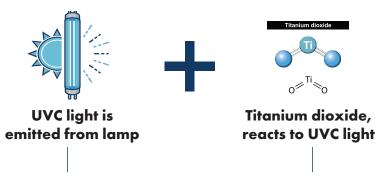


COMMERCIAL UV AIR PURIFIER MODELS						
MODEL	PART NUMBER	DESCRIPTION				
CUV-1123SC	602652311	23" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1123DC	602652312	23" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1128SC	602652811	28" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1128DC	602652812	28" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1134SC	602653411	34" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1134DC	602653412	34" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1538SC	602653811	38" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1538DC	602653812	38" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1546SC	602654611	46" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1546DC	602654612	46" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1558SC	602655811	58" (1) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				
CUV-1558DC	602655812	58" (2) Lamp Coated Commercial UVC FlexMount High Output (FMHO) 120-277 VAC				

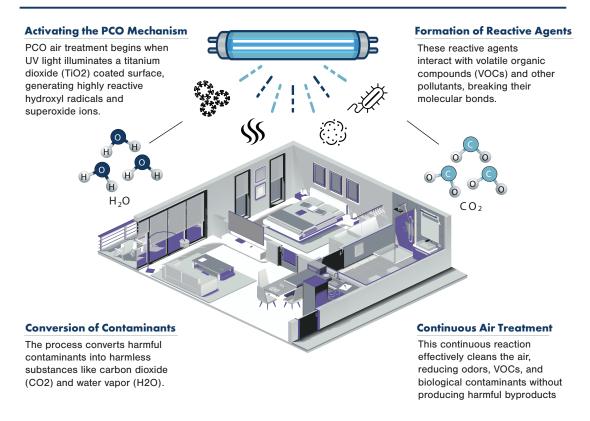
PRO-CELLTM PERFORMANCE & APPLICATIONS

WHAT IS PCO?

Photo Catalytic Oxidation (PCO) is a chemical process that breaks down complex organic compounds into harmless molecules like carbon dioxide and water, using a catalyst and activation energy. Similar to how catalytic converters reduce smog in cars, PCO technology converts toxic compounds into safe carbon dioxide and water vapor. It's widely used in various settings like hospitals, hotels, airports, retail stores, offices, and homes.



PCO (PHOTOCATALYTIC OXIDATION)



WHAT IS PRO-CELLTM TECHNOLOGY?

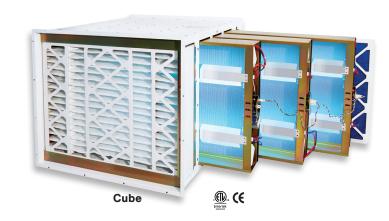
PRO-CellTM Technology is an advanced, patented form of PCO used for indoor air treatment. PRO-Cell technology uses titanium dioxide coated honeycomb aluminum as a catalyst to maximize surface area and contact time. The powerful UV light acts as the activation energy to efficiently trigger the PCO reaction. When harmful VOCs, gaseous contaminants, and odors contact the catalyst surface, they are converted to harmless, odor-free water vapor and carbon dioxide.



CUBE: PACKAGES & CUSTOM AIR TREATMENT SOLUTIONS

THREE STAGE AIR PURIFICATION

The Cube is designed for use in any environment where harmful odors, volatile organic compounds (VOCs), viruses or airborne contaminants are a concern. The Cube's effectiveness is multiplied in recirculating HVAC systems where the air quality improves with each pass. Standard configuration includes on a MERV 13 high-efficiency filter, three patented PRO-CellTM PCO modules, and one extra slot for an additional post-filter.



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.

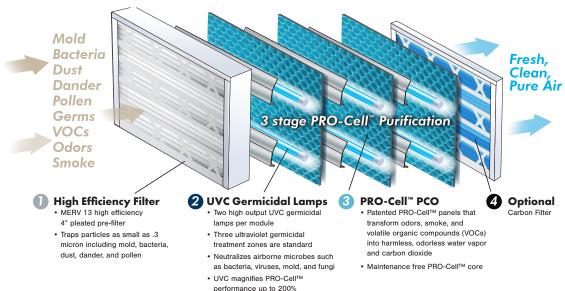
Exhausting systems can be outfitted with a third PRO-Cell™ module to reduce odors emitted outside the building.

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
- Clean Rooms
- All Environments with Inks, Solvents, and VOC Generating Chemicals

Note: For higher tonnage requirements, multiple units can be used together.



	CUBE SPECIFICATIONS							
MODEL	SIZING (TONS)	VOLTAGE	LAMP WATTAGE	PRO-CELL™ SURFACE AREA (SQ. IN.)	MERV 13 FILTER (INCHES)	MERV 13 EFFICIENCY PARTICULATE REDUCTION AT .30 MICRONS		
CUBE	6.0	120	6 at 25	600 - 1,400	20 H X 25 W X 4 D	92.30%		

DUO WHOLE HOUSE AIR PURIFIERS

REDUCE ODORS AND VOCS

The Healthy Home System DUO Air Purifiers combines AirfreshTM Carbon Odor Adsorption with PRO-CellTM Technology and high-intensity UVC light so indoor air remains Pure and Fresh. A powerful UVC lamp reduces airborne bacteria, viruses, mold, and fungi. The patented PRO-CellTM technology, our exclusive Photo-Reactive Oxidation process, reduces odors and VOCs; AirFresh Carbon Odor Adsorption traps lingering odors.







FEATURES

- AirFresh™ Carbon Odor Adsorption
- High-intensity UVC lamp
- Patented PRO-Cell™ Technology
- Compatible with existing duct work
- Virtually maintenance free
- Easy to install
- 10-year limited warranty

FEATURES

- AirFresh™ Carbon Odor Adsorption
- 120V and 24V available
- · Powerful, high-intensity UVC light
- Twist-n-Lock safety switch for easy lamp replacement
- Zero Ozone
- 10-year limited warranty





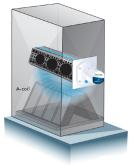
DUO-14R

FEATURES

- AirFresh™ Carbon Odor Adsorption
- Dual high-intensity UVC lamps
- Patented PRO-Cell™ Technology
- · Compatible with existing duct work
- Virtually maintenance free
- Easy to install
- 10-year limited warranty

INSTALLATION OPTIONS

Healthy Home DUO models can be installed over the AC-Coil or in the return/supply duct. They fit into supply and return ductwork and HVAC systems. Ensure sufficient space in the ductwork for installation to maintain proper HVAC airflow.



DUO 120V Over AC-Coil



DUO-2000 Return or Supply



FRESH - PRO-CELLTM

DUO WHOLE HOUSE AIR PURIFIERS COMPARISON

	DUO WHOLE HOUSE INDUCT AIR PURIFIERS					
	12	0V	24V	120 - 220V	24V	
	NEW		NEW			
Model	DUOX-16/120	DUO-16/120	DUOX-16/24	DUO-2000	DUO-14R	
Part Number	602618121	46648804	602618241	46636000	602611400	
Intensity (µW/cm²@0m)	46,758	21,948	21,948	21,948	19,116	
Intensity (µW/cm²@1m)	132	62	62	126	65	
Lamp Current	800mA	425mA	425mA	800mA	350mA	
Lamp Power	36W	21W	21W	49W	24W	
Lamp Materials	Quartz, Ceramic	Soft Glass, Plastic	Quartz, Ceramic	Quartz, Ceramic	Soft Glass, Plastic	
Lamp Life	2 Year	1 Year	2 Year	2 Year	1 Year	
Replacement Method	Updated Turn-Lock Design	Turn-Lock Design	Updated Turn-Lock Design	Removable Cover w/ Screws	Removable Cover w/ Screws	
Power Cable Length	10'	6'	10'	7'	5'	
Power Connection	NEMA 5 15P Plug	NEMA 5 15P Plug	Pigtail Wires	NEMA 5 15P Plug	Pigtail Wires	
Lamp Cable Length	4'	N/A	4'	N/A	7'	
Voltage	100-230 VAC	120V	24V	120 - 220V	24V	
Frequency	50/60 Hz	60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	
Current	1.2A	0.5A	2.6A	0.5A	1.5A	
Power	140-324W	30W	70W	50W	24W	
Carton Dimensions	20 ½ x 7 ½ x 9 ¾	23 ½ x 8 ½ x 8	20 ½ x 7 ½ x 9 ¾	23 ½ x 8 ½ x 8	23 ½ x 8 ½ x 8	
Mounting Plate Dimensions	2.45" x 3.25"	4.5" x 5.5"	2.45" x 3.25"	6.76" x 6.76"	6.6" x 6.9"	
Power Head Protrusion from Duct	2.38"	3.58"	2.38"	1.75"	4" (Including Cable)	

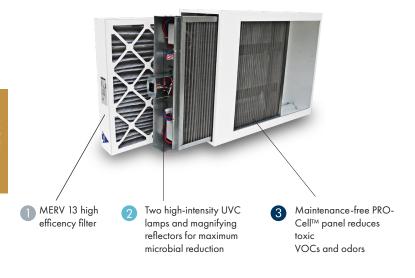
TRIO 3-IN-1 AIR PURIFICATION SYSTEM

THREE STAGE AIR PURIFICATION

The TRIO-16 and TRIO-20 whole house air cleaning systems combine three unique and effective technologies to protect against indoor air pollutants:

- PRO-CellTM is a patented Photo-Reactive Oxidation process that transforms the odors and volatile organic compounds (VOCs) into harmless, odorless water vapor and carbon dioxide.
- High-intensity UVC light reduces airborne bacteria, viruses, mold, and funai.
- MERV 13 media filters efficiently capture particles and feature depth loading to minimize pressure drop.

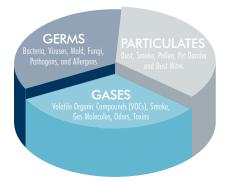
The combined effect of these three technologies delivers unparalleled performance in reducing toxic gases and odors, particles that trigger allergies and asthma, and viruses, bacteria and mold that cause illnesses.





FEATURES

- · Powerful, high-intensity UVC light
- PRO-Cell™ oxidation (PCO) technology
- High efficiency MERV 13
- HeavySeal™ Design
- Three Stage Design
- Superior performance
- EquipFit[™] Cabinet
- Zero Ozone
- 10-year limited warranty



Customer Service: 252.522.3031

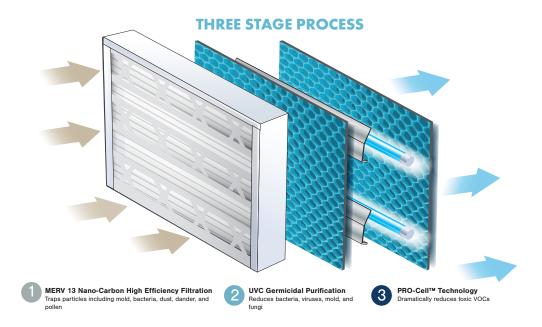
THREE STAGE AIR PURIFICATION

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) treatment zone and two powerful 22" high-intensity UVC lamps. These lamps reduce airborne microbes such as bacteria, viruses, mold, and fungi.

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

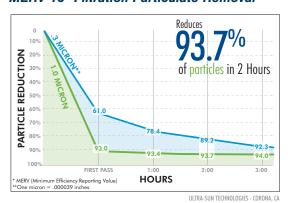


TRIO 3-IN-1 AIR PURIFICATION SYSTEM



INDEPENDENT TESTING

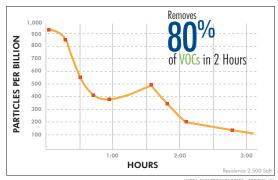
MERV 13* Filtration Particulate Removal



Virus and Bacteria Reduction



Chemical VOCs



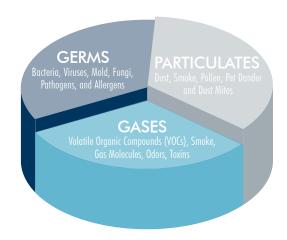
ULTRA-SUN TECHNOLOGIES - CORONA. CA

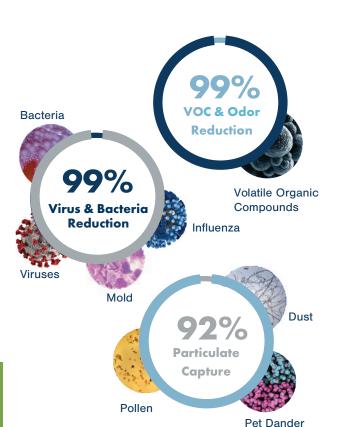
	TRIO 3-IN-1 AIR PURIFICATION SYSTEM SPECIFICATIONS											
MODEL SIZING MERV 13 BACTERIAL REDUCTION TOXIC LAMP PRESSURE DROP (TONS) NANO-CARBON FILTRATION REDUCTION GASES (VOCS) WATTAGE (IN WC)												
TRIO-16	1.5 to 3.0	Yes	Yes	Yes	30	.125 @ 800 cfm	.125 @ 1200 cfm					
TRIO-20	1.5 to 4.0	Yes	Yes	Yes	30	.18 @ 1200 cfm	.30 @ 1600 cfm					

UNDERSTANDING POLLUTANTS

WHAT IS PCO?

Indoor air pollutants come in two forms: particles and gases. Particulate matter (PM) is categorized into two groups: PM10 and PM2.5. PM10 refers to larger particles, sized between 2.5 and 10 microns, which can be inhaled. These particles include mold spores, dust mite droppings, pet dander, pollen, and visible dust. On the other hand, PM2.5 particles are extremely small, only visible under a microscope. They include substances like smoke, viruses, sulfur dioxide, and soot, posing a higher health risk as they can penetrate deep into the lungs and bloodstream, potentially leading to decreased lung function and respiratory symptoms.





VOCS

Portable air purifiers target gaseous pollutants from sources like combustion, aging building materials (off-gassing), and natural processes. Off-gassing, found in items like plywood and cleaning products, releases volatile organic compounds (VOCs).

Natural VOCs, such as radon, pose health risks. Radon, from uranium decay, can accumulate indoors, especially through cracks or water sources. Carbon filters address these gases, with natural ventilation as an effective option.

GERMS

UVC light reduces biological organisms by damaging their DNA when they pass near the UV light source. The effectiveness depends on exposure time and proximity to the light. Viruses and bacteria are particularly vulnerable; an average bacterium can be killed within 10 seconds if within 6 inches of the UV bulb. This process may require multiple passes through the filter for thorough purification.





TRIO PORTABLE AIR PURIFIER

TRIO PORTABLE AIR PURIFIER

The TRIO Portable includes multi-stage filtration and PRO-CellTM Technology, odor, and VOC reduction. The TRIO Portable is ideal for bedrooms, nurseries, dorm rooms, living spaces, offices or any room where extra protection is needed.

- Advanced Filtration: Four stages of filtration, including HEPA, trapping dust, dander, pollen, and other airborne particles.
- Clean Air Delivery Rate (CADR): Achieving a CADR of 305,
 TRIO Plus swiftly clears the air of contaminants for a breath of fresh, clean air.
- High-Intensity UVC Lamp: Reduces airborne mold, bacteria, and viruses.
- PRO-CellTM Technology: Patented PRO-CellTM Technology breaks down odors and VOCs, providing a comprehensive solution for air treatment.
- VOC Sensor: Equipped with an advanced VOC sensor that automatically increases the fan speed when harmful gases are present.



IDEAL FOR:

- Classrooms
- Gyms
- Doctors Offices
- Restaurants
- Day Care Facilities
- Beauty Salons

MULTI-STAGE TRUE HEPA FILTRATION

Traps particles such as smoke, dust, dander, pollen, and PM2.5 particulates

PATENTED PRO-CELLTM TECHNOLOGY

Dramatically reduces toxic VOCs and odors

3 UVC LAMPS

Powerful UVC excites PRO-Cell™ Technology



TRIO can clean the air in a room up to 1,155 square feet in one hour and 577 square feet in 30 minutes.

	TRIO PORTABLE AIR PURIFIER SPECIFICATIONS											
MODEL	MODEL NOISE AIRFLOW (CFM) CADR COVERAGE 3 AIR COVERAGE COVERAGE 5 AIR COVERAGE (CFM) CHANGES PER HOUR (ACH) SQUARE FEET @ 3 ACH (ACH) SQUARE FEET @ 5 ACH											
TRIO	68	250	154	500	25 x 20	300	20 x 15	10,620				

TRIO PLUS PORTABLE AIR PURIFIER

HEPA, PRO-CELLTM & UVC PROTECTION

The TRIO Plus Portable Air Purifier is a potent portable air purification and filtration system designed to deliver exceptional performance whenever you need it. Engineered for efficiency and effectiveness, the TRIO Plus operates quietly while offering powerful results.

- Remarkable Clean Air Delivery Rate CADR: Achieving a CADR of 305,
 TRIO Plus swiftly clears the air of contaminants for a breath of fresh, clean air.
- **High Airflow Capacity:** With a capacity of 400 CFM, TRIO Plus ensures rapid and thorough air circulation, making it ideal for spaces of various sizes.
- True HEPA Filtration: Captures over 99.97% of particles as small as 0.3 microns, down to 0.1 microns, ensuring the reduction of the tiniest pollutants from your environment.
- Dual High-Intensity UVC Lamps: An extra layer of protection against airborne contaminants with not one, but two high-intensity UVC lamps that reduce harmful pathogens and allergens.
- **PRO-Cell™ Technology:** Patented PRO-Cell™ technology breaks down odors and VOCs, providing a comprehensive solution for air treatment.



- Restaurants
- Hotels
- Doctors Offices
- Gyms

- Beauty Salons
- Offices
- Cafeterias





Innovative Bioanalysis confirmed the TRIO Plus achieved a 99.99% efficacy against coronavirus, specifically SARS-CoV-2, the virus that causes COVID-19 within 30 minutes.

MULTI-STAGE TRUE HEPA FILTRATION

Traps particles such as smoke, dust, dander, pollen, and PM2.5 particulates

₽ PATENTED PRO-CELL™ TECHNOLOGY

Dramatically reduces toxic VOCs and odors

3 UVC LAMPS

Two Powerful UVC excites PRO-Cell™ Technology



TRIO Plus can clean the air in a room up to 3,300 square feet in one hour and 1,650 square feet in 30 minutes.

	TRIO PORTABLE AIR PURIFIER SPECIFICATIONS									
MODEL	MODEL NOISE (DB) AIRFLOW (CFM) CADR (CFM) COVERAGE 3 AIR CHANGES PER HOUR (ACH) SQUARE FEET COVERAGE ROOM SIZE @ 3 ACH μW/CM²@ SURFACE									
TRIO Plus	TRIO Plus 55 440 305 1100 33 x 33 10,620									



TRIO PRO COMMERCIAL AIR PURIFIER

THE ULTIMATE AIR PURIFICATION SYSTEM

The TRIO Pro Commercial Air Purifier is a sophisticated air treatment system that sets a new standard in air purification technology. Designed for commercial settings, this powerhouse seamlessly integrates three advanced stages of air purification within one robust and quiet unit

- **Triple-Stage Air Purification:** The TRIO Pro combines H13 HEPA Filtration, Activated Carbon, patented PRO-Cell™ technology, and high-output UVC lamps to deliver unparalleled air cleaning performance.
- Impressive Clean Air Delivery Rate (CADR): Achieved a CADR of 518 cfm, guaranteeing rapid and efficient removal of airborne contaminants.
- Advanced Filtration: The H13 HEPA filter captures 99.97% of particles as small as 0.3 microns. While the Activated Carbon filter removes odors and volatile organic compounds (VOCs).
- **PRO-CellTM Technology:** Patented PRO-CellTM technology breaks down odors and VOCs, providing a comprehensive solution for air treatment
- High-output UVC lamps: Four high-output UVC lamps align with global health guidelines, reducing harmful pathogens.
- VOC and Particle Air Quality Sensors: Equipped with advanced sensors, the TRIO Pro automatically adjusts fan speed to maximize filtration and purification.



IDEAL FOR:

- Restaurants
- Beauty Salons
- Hotels
- Offices
- Doctors Offices
- Cafeterias
- Gyms

MULTI-STAGE TRUE HEPA FILTRATION

Traps particles such as smoke, dust, dander, pollen, and PM2.5 particulates

PATENTED PRO-CELLTM TECHNOLOGY

Dramatically reduces toxic VOCs and odors

3 UVC LAMPS

Two Powerful UVC excites PRO-Cell™ Technology



TRIO Pro can clean the air in a room up to 4,853 square feet in one hour and 2,426 square feet in 30 minutes.

TRIO PRO COMMERCIAL AIR PURIFIER SPECIFICATIONS									
MODEL NOISE (DB) AIRFLOW (CFM) COVERAGE 3 AIR CHANGES PER HOUR (ACH) SQUARE FEET COVERAGE ROOM SIZE @ 3 ACH μW/CM²@ SURFACE						μW/CM²@ SURFACE			
TRIO Pro	58	647	518	1,618	40 x 40	8,850			

UNDERSTANDING HUMIDITY CONTROL

THE IMPORTANCE OF HUMIDITY CONTROL

Are you aware of the profound impact humidity levels can have on your overall well-being and comfort? It's more than just a matter of climate; it's about creating an environment that promotes health and relaxation tailored to your regional needs. In the Southwest, where dry air dominates, the importance of maintaining optimal humidity levels cannot be overstated. The lack of moisture in the air can lead to a myriad of discomforts, from persistent dry skin and parched lips to aggravated sinuses and respiratory challenges. By introducing the right amount of humidity into your indoor environment, you can alleviate these symptoms and create a more soothing atmosphere for everyday living. Imagine bidding farewell to the constant itchiness and irritation that often accompanies dry air, embracing



Customer Service: 252.522.3031

instead a sense of relief and well-being as your skin and respiratory system thrive in balanced humidity.

In the lush, humid landscapes of the Southeast, humidity control takes on a different but equally vital role. Here, the challenge lies in managing excess moisture to prevent the growth of mold and mildew, which thrive in damp environments. Beyond the visible signs of mold, excessive humidity can also lead to musty odors and a general feeling of discomfort. By implementing effective humidity control measures, you not only safeguard your indoor air quality but also maintain a pleasant ambiance free from the dampness and stagnation that can detract from your daily enjoyment of your living spaces.

Whether you're navigating the dry heat of the Southwest or the humid embrace of the Southeast, our humidity control solutions are designed to harmonize your regional climate, providing you with the tools you need to create a healthier, more comfortable indoor environment.

OUR INNOVATIVE SOLUTIONS

Explore our humidity control solutions tailored to your region's unique needs:

- Dry Climate Solutions: Our steam humidifiers are designed to add moisture to the air, combating the dryness typical of regions like the Southwest.
- **Humid Climate Solutions:** For humid regions like the Southeast, our dehumidifiers help regulate indoor moisture levels, preventing mold and mildew growth, and ensuring a fresh, comfortable atmosphere year-round.

ENERGY EFFICIENT

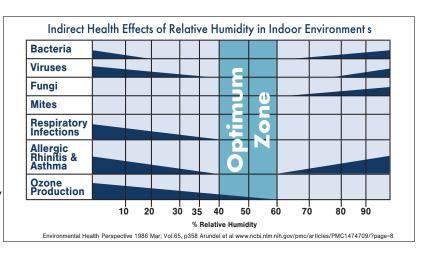
Save energy and reduce utility costs with our energy-efficient humidity control solutions. Whether you're battling dry air in the winter or humidity spikes in the summer, our systems operate efficiently to maintain ideal indoor conditions without unnecessary energy consumption.

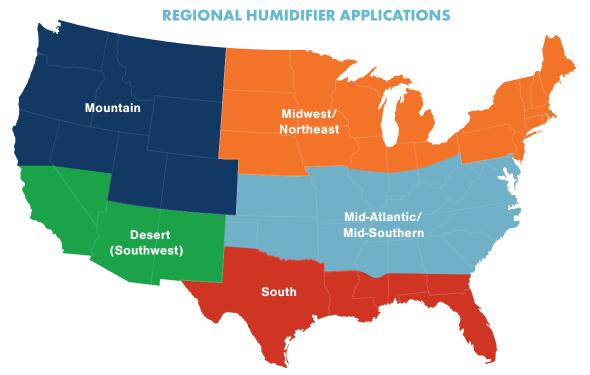


UNDERSTANDING HUMIDITY CONTROL

RELATIVE HUMIDITY

Indoor relative humidity levels, often overlooked, profoundly influence our health and well-being. Maintaining proper humidity levels can prevent respiratory issues, reduce the spread of airborne pathogens, and minimize allergens like dust mites and mold. Conversely, excessively low or high humidity can exacerbate respiratory conditions, dry out skin and mucous membranes, and create a breeding ground for harmful microorganisms. By controlling indoor humidity, we can enhance not only our comfort but also our overall health and quality of life.





CLIMATE ZO	CLIMATE ZONE/RECOMMENDED FIELD CONTROLS HUMIDIFIER SOLUTION BY MODEL											
EQUIPMENT	SEASON	NORTHWEST/ NORTHEAST	MID-ATLANTIC/ MID-SOUTHERN	MOUNTAIN	SOUTH	DESERT/ SOUTHWEST						
Dehumidifier	Summer	FC-60DH-2 FC-85DH-2 FC-120DH-2	FC-60DH-2 FC-85DH-2 FC-120DH-2	FC-60DH-2 FC-85DH-2 FC-120DH-2	FC-60DH-2 FC-85DH-2 FC-120DH-2	Not Needed						
	Winter	Not Needed	S2000-LH S2020-LH	Not Needed	S2000-LH S2020-LH	Not Needed						
Steam Humidifier	Summer	Not Needed	Not Needed	Not Needed	Not Needed	S2000-LH S2020-LH						
	Winter	S2000-LH S2020-LH	S2000-LH S2020-LH	S2000-LH S2020-LH	S2000-LH S2020-LH	S2000-LH S2020-LH						

UNDERSTANDING HUMIDITY CONTROL

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-LH can output up to 16 gallons of water per day and the S2020-LH can output up to 23 gallons per day.

INFORMATION IS POWER

The S2000-LH and S2020-LH 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.

SIZING THE HUMIDIFIER FOR YOUR HOME

- 1. Calculate the total cubic feet of your home
 - * Total home square feet x Average ceiling height Note: Include the basement
- 2. Calculate humidity load requirement in pounds per hour (lbs/hr)
 - * Total cubic feet of your home x Preferred indoor RH% factor (see table)
 - * Multiply result by 1.05 for each fireplace
- 3. Converting (lbs/hr) to gallons per day (gpd)
 - * Humidity load (lbs/hr) x 2.88 Factor = Gallons per day



FEATURES

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

BENEFITS

- · Humidify 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

INDOOR AIR	RESIDENTIAL STEAM HUMIDIFIER						
TEMP °F	35%	40%	45%	50%			
68°	0.00015	0.00018	0.00021	0.00024			
70°	0.00017	0.00020	0.00023	0.00026			
72°	0.00019	0.00022	0.00025	0.00028			

	RESIDENTIAL STEAM HUMIDIFIER SPECIFICATIONS										
MODEL	OUTPUT CAPACITY	MAX COVERAGE AREA (SQ. FT)	VOLTAGE	WATTS	AMPS	HZ	PLENUM OPENING (INCHES)	WEIGHT (LBS)			
\$2000-LH	16 Gal./Day	2,400	120 VAC	1.4	11.6	-	6 x 6	9			
\$2020-LH	23 Gal./Day	3,200	220 VAC	2.0	8.5	-	6 x 6	9			



UNDERSTANDING HUMIDITY CONTROL

ENSURE COMFORT AND HEALTH

Whole House Dehumidifiers provide an efficient solution to maintain optimal humidity levels, ensuring a comfortable and healthy indoor environment. In modern homes built with energy-efficient methods, moisture can become trapped, leading to musty odors and the growth of mold, mildew, and bacteria. Controlling humidity is essential for comfort, reducing health risks, and safeguarding your property.

HOW IT WORKS

Whole House Dehumidifiers feature an integrated dehumidistat to monitor the conditioned space. When the relative humidity rises above the selected setpoint, the dehumidifier will energize. Air is then drawn across an evaporator coil, which is cooler than the dew point air. This causes moisture to condense out the air. The air is then reheated through the condenser coil and distributed back into the room.

PROTECTING YOUR HOME

High humidity levels pose a significant threat to the integrity of your home and the longevity of your belongings. Moisture-laden air can seep into walls, causing paint to blister and peel while promoting the growth of mold and mildew. Wooden furniture is especially vulnerable, as excess moisture can lead to warping, cracking, and even rot. Electronics and appliances are also at risk, as humidity can corrode internal components and lead to malfunctions.



FEATURES

- Dynamic operation for peace-of-mind performance
- Perfect for basement and crawl space application
- Ideal for whole house integration with HVAC systems
- Ultimate in corrosion protection
- · Convenience for effortless system management
- Provides fail safe protection to turn off the dehumidifier if external condensate pump fails
- Allows selection of precise setpoint while monitoring actual room conditions

PROTECTING YOUR HOME

Excessive humidity indoors is more than just discomfort - it's a breeding ground for mold, mildew, and allergens, leading to health hazards and property damage. Dehumidifiers offer a comprehensive solution by regulating humidity levels throughout the home.

	WHOLE HOUSE DEHUMIDIFIERS SPECIFICATIONS										
MODEL	MODEL AIRFLOW (CFM) REFRIGERANT SOUND DBA RATED CONDENSATE CAPACITY (80°F, 60%)										
FC-60DH-2	155	R410A	59	60 ppd							
FC-85DH-2	185	R410A	59	85 ppd							
FC-120DH-2	FC-120DH-2 300 R410A 60 120 ppd										

CLEARWAVE® HARD WATER TREATMENT

THE IMPORTANCE OF HUMIDITY CONTROL

ClearWave® is a revolutionary product that conditions hard water without the expense and hassle of salt, chemicals, or traditional hard water systems. ClearWave attacks hard water particles with electro-magnetic waves, treating the entire water system in your home and helping prevent and reduce hard water problems.



Calcium and magnesium particles tend to stick to each other and any surface they contact, forming layers of hard scale. This scale buildup damages water heater elements and restricts water flow. ClearWave reduces these particles. Once treated by the ClearWave Water Conditioner, calcium and magnesium particles remain in suspension, flowing freely through the system and down the drain.

ClearWave not only prevent new scale formation, over time it helps break down existing scale, protecting the water heater, pipes, shower heads, and appliances. ClearWave is maintenance-free, environmentally friendly, and uses less water than traditional water softeners. ClearWave works on all types of pipes including copper, PVC, PEX, galvanized, and stainless steel.



BENEFITS

- Salt-free
- Reduces existing scale
- Prevents scale buildup
- Maintenance free
- · Environmentally friendly
- Easy to install

APPLICATIONS INCLUDE:

- Ice makers
- Dishwashers
- · Washing machines
- Boilers
- Humidifiers
- Swimming pools
- Ideal for water heaters (including tankless models)

Note: Multiple units may be required in some applications.

SYSTEM SOLUTIONS FOR CW-125								
WATER HARDNESS RECOMMENDED SOLUTION								
GRAINS PPM								
Up to 425	ClearWave							
25 plus 425 plus ClearWave prior to traditional water softener								
	ARDNESS PPM Up to 425							

INDEPENDENT TESTING PROVES:



Prevents scale build-up



Reduces existing scale



Effective at any temperature or flow rate

	SPECIFICATIONS										
CAPACITY ELECTRICAL SPECS											
MAX. PIPE DIAMETER	MAX. FLOW RATE	VOLTS	WATTS	AMPS							
1"	28 gpm	18.8 VAC	0.2	.021							





ENHANCE INDOOR AIR QUALITY

The Canary IAQ Analyzer is a significant advancement in IAQ management. Its innovative design combines automated operation with high-precision sensors to effortlessly and comprehensively provide indoor air quality insights and solutions.

Buildings can trap pollutants and air quality can be further reduced with high occupancy. Maintaining a safe indoor environment requires controlling pollutants from all sources. Let Canary provide real-time mobile insights into the indoor air quality of your building and recommend appropriate IAQ solutions.



BENEFITS

- Identify potential air quality issues
- Provides proactive corrective measures
- · Facilitates compliance with regulations and standards
- Promotes healthier environments by monitoring key IAQ parameters

FEATURES

- Plug-n-Play and automated operation provides easy use
- · Convenient portable design
- Built-in cellular connection
- · Rapid reports with detailed findings sent via email
- Monitors key parameters

HOW IT WORKS

- 1. Plug it in
- 2. Wait 30 minutes for the device to collect data
- 3. Receive an emailed IAQ report

SENSOR ARRAY

- Temperature
- Humidity
- CO
- TVOC
- CO,

Pressure

• Particulates



DATA & REPORTS

Generate a 30-minute Flash Report or a 48-hour multi-day SmartIAQ Report. The report is sent via email and provides a complete overview of the indoor air quality. This early identification of potential issues allows for proactive solutions and helps ensure compliance with regulatory standards.

SENSOR SPECIFICATIONS										
SENSOR RANGE ACCURACY RESOLUT										
PARTICLES (PM10)	0 to 50 g/m³	± 10%	.5 g/m3							
PARTICLES (PM10, PM2.5)	0 to 500 g/m³	± 10%	.5 g/m							
TVOC	0 to 4000 g/m³	± 20%	6 g/m @ cal pt							
CARBON DIOXIDE	0 to 2000 ppm	± 5%, ± 50 ppm	<10 ppm							
TEMPERATURE	32 to 100°F	± 2°F	0.1°F							
RELATIVE HUMIDITY	10 to 95%	± 3%	0.1%							
CARBON MONOXIDE	0 to 100 ppm	± 3 ppm	0.5 ppm							
PRESSURE	750 to 1100 mbar	± < 0.3 mbar	0.1 mbar							

REPLACEMENT PARTS

IAQ SYSTEMS

UV-AIRE® AIR PURIFICAITON BALLAST			
MODEL	DESCRIPTION	PART NO.	
UV-12 UV-18	Ballast Assembly	46365509	
UV-16/120	Ballast Assembly	60530005120	
UV-13FM UV-17FM	Ballast Assembly	46635900	

UV-AIRE® AIR PURIFICAITON LAMPS			
MODEL	DESCRIPTION	PART NO.	
UV-12, UV-12FM UV-1500C	UVC Germicidal Lamp 12"	46365401	
UV-13	UVC Germicidal Lamp 13"	46632513	
UV-14.5FM	UVC Germicidal Lamp 14.5"	602600501	
UV-16/120 UV-16/24	UVC Germicidal Lamp 16"	46511200	
UVX-16/120	UVC Germicidal Lamp 16"	602617120	
UVX-16/24	UVC Germicidal Lamp 16"	602617024	
UV-17FM	UVC Germicidal Lamp 17"	46632517	
UV-18	UVC Germicidal Lamp 18"	46365402	
UV-28	UVC Germicidal Lamp 28"	46365403	
TRIO-1000P	UVC Germicidal Lamp 11"	46649700	
TRIO Plus	UVC Germicidal Lamp 13"	602604500	
TRIO Pro	UVC Germicidal Lamp 11" 60260550		

UV-AIRE® AIR PURIFICAITON KITS			
MODEL	DESCRIPTION	PART NO.	
UV-500RK	Annual Replacement Kit	46474500	
UV-500RF	4 Pack Filter Kit	46507900	
TRIO-1000P	H13 HEPA Replacement Filter Set	602607500	
TRIO-1000P	U15 ULPA Replacement Filter Ser	602608700	
TRIO-1000P	UVC Lamp & H13 HEPA Filter Set	602609500	
TRIO-1000P	OOP UVC Lamp & U15 ULPA 602609		
TRIO Plus	H13 Filter Set (HEPA, Carbon, & Per-Filter Set)	602605100	
TRIO Pro	Pro H13 Filter Set (HEPA, Carbon, & Per-Filter Set) 60260560		





Ballast Assembly UV-13FM, 17FM



UVC Germicidal Lamp



Annual Replacement Kit UV-500



4 Pack Filter Kit UV-500



UVC Germicidal Lamp, TRIO-1000P



H13 HEPA Filter, TRIO-1000P



U15 ULPA Filter, TRIO-1000P



H13 HEPA Filter Set & UVC Lamp, TRIO-1000P



H13 Filter Set, TRIO Plus



H13 Filter Set, TRIO Pro

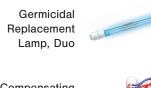




REPLACEMENT PARTS

IAQ SYSTEMS

DUO WHOLE HOUSE AIR PURIFIERS			
MODEL	DESCRIPTION	PART NO.	
17.5LAMP	50w 18" Germicidal Replacement Lamp (DUO-2000)	46636300	
BL013	High Output Temp. Compensating Ballast (DUO-2000)	46637100	
16LAMP	16" Germicidal Replacement Lamp (DUO-16/120)	46511200	
TL16-120B	TurnLoc 16 Ballast 120v	60530005120	
120LAMP	16" 120V UVC Germicidal Lamp 800 mA (DUOX-16/120)	602618121	
24LAMP	16" 24V UVC Germicidal Lamp 425 mA (DUOX-16/24)	602617024	
13LAMP	13" Twin Tube UVC Germicidal Lamp (DUO-14R)		







Replacement Media for TRIO-16 & 20, 6 Pack Filter Kit



28w 22" UVC Germicidal Lamps, Trio



Electronic Ballast, Trio



12 Volt Transformer, Trio



TRIO 3-IN-1 AIR PURIFICATION SYSTEM			
MODEL	DESCRIPTION	PART NO.	
TRIORM8-1625	16" x 25" x 4" (3.75") MERV 8 Replacement Media for TRIO-166 Pack Filter Kit	46678400	
TRIORM11-1625	16" x 25" x 4" (3.75") MERV 11 Replacement Media for TRIO-16, 6 Pack Filter Kit	46636800	
TRIORM13-1625	16" x 25" x 4" (3.75") MERV 13 Replacement Media for TRIO-16, 6 Pack Filter Kit	46636600	
TRIORM8-2025	20" x 25" x 4" (3.75") MERV 8 Replacement Media for TRIO-20, 6 Pack Filter Kit	46678300	
TRIORM11-2025	20" x 25" x 4" (3.75") MERV 11 Replacement Media for TRIO-20, 6 Pack Filter Kit	46636700	
TRIORM13-2025	20" x 25" x 4" (3.75") MERV 13 Replacement Media for TRIO-20, 6 Pack Filter Kit	46636500	
22LAMP	22" Germicidal Replacement Lamps (two required)	46636400	
BA-12/20	Ballast Assembly	46636900	

PARTS

REPLACEMENT PARTS

STEAM HUMIDIFIERS

STEAM HUMIDIFIERS			
MODEL	DESCRIPTION	PART NO.	
2120	120 Volt Heater Assembly	094021A0201	
2240	240 Volt Heater Assembly	094021A0202	
2001	24 Volt Solenoid Valve Assembly	094021A0203	
2002	Thermistor Probe Assembly	094021A0205	
2003	Water Level Probe Assembly	094021A0204	
2010	120V Circuit Board Assembly	094021A0206	
2011	220V Circuit Board Assembly	094021A0207	
2006	Drain Valve Assembly	094021A0208	
2007	Tank Baffle	094021A0209	
2008	Insulation Kit	094021A0210	
WH-100	Water Hammer Arrester Used to eliminate pipe noise	094078A0001	
Z100	Replacement sacrifical anode. Lasts one full season	094021A0211	
APD	Air Proving Device Proves airflow before engaging heating element. A split core ccurrent sensing relay will monitor the on/off status of any blower motor. Insures humidifier only operates when your fan is functioning.	090558A0001	
WC-25	Steam Treatment Water Filter Cartridge Helps reduce mineral build up. Lasts for one heating season.	900010125	
IDB	Internal Duct Bracket Permanent mounting bracket makes servicing quicker and easier.	094021A2040	
UDB	Under Duct Bracket Permanent mounting bracket makes servicing quicker and easier.	094021A2041	
TCO-257	Bimetallic Thermal Cutoff Electrical safety device that interrupts electric current in case of overload. Opens at a high temperature and re-closes when the temperature drops	46645200 (after 8/2015)	

120 or 240 Volt Heater Assembly







Thermistor Probe Assembly



Water Level Probe Assembly



120 or 200V Circuit Board Assembly



Drain Valve Assembly



Tank Baffle



Insulation Kit



Water Hammer Arrester



Replacement sacrificial anode



Air Proving Device



Steam Treatment Water Filter Cartridge



Internal Duct Bracket



Under Duct Permanent Mounting Bracket



Bimetallic Thermal Cutoff





GET ALL THE FIELD CONTROLS PRODUCT GUIDES at fieldcontrols.com

or contact us at 252.522.3031 or sales@fieldcontrols.com

Commercial Products Guide

The Commercial Products Guide showcases the industry's most comprehensive lineup of IAQ products and solutions. From cutting-edge air purification to technology, our solutions enhance indoor air quality, energy efficiency, and occupant comfort. Whether you're addressing air exchange, filtration, or purification, this guide provides the essential tools and expertise to create healthier indoor environments





Residential Ventilation Products Guide

Our full line of ventilation products offers controlled and balanced ventilation solutions for every home application. Included in the guide are models, specifications, and wiring diagrams for products ranging from ventilation controls and HRVs and ERVs to Fresh Air systems, whole house fans, and more. This guide provides home builders and HVAC contractors with reliable, practical, and proven ventilation solutions that meet code and satisfy homeowners' expectations for comfort, safety, and energy efficiency.

Combustion Products Guide

Our Combustion Products Guide provides essential information, specifications, and a complete range of solutions for oil, gas, and coal heating appliances. It covers everything from power venters and vent dampers to draft controls, with detailed insights on sizing, system setup, and maintenance. The guide also highlights our specialized combustion air systems and innovative solutions such as the Flue Sentinel and Hearth Combustion Air systems.



Digital Products Guide



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Corporate Office

Kinston, NC 252.522.3031

Sales/Manufacturing/Engineering