



Duo

PROTECT YOUR FAMILY'S HEALTH
WITH AIR THAT IS FRESH AND PURE.



FIELD CONTROLS
Improving Indoor Environments

Healthy Home System Duo



Whole-House Air Purifiers

Duo is an ultra-high intensity UVGI solution with more exposure in the treatment zone to reduce germs in their tracks. Plus, PRO-Cell™, a PCO process that breaks down complex toxic organic compounds and chemicals into harmless carbon dioxide and microscopic water vapor.

Technology Counts

The Duo Air Purification System combines AirFresh™ Carbon Odor Adsorption with PRO-Cell™ Technology and UVC germicidal light so indoor air is Pure and Fresh. A powerful UVC germicidal light reduces airborne bacteria, viruses, mold and fungi. The Duo also includes patented PRO-Cell™ technology, our exclusive Photo-Reactive Oxidation process.

When the catalytic aluminum substrate is exposed to UVC light, the PRO-Cell's extensive surface area transforms the odors and volatile organic compounds (VOCs) into harmless, odorless water vapor and carbon dioxide. All Duo models include AirFresh Carbon Odor Adsorption that traps lingering odors.

What is a VOC?

A VOC is an organic or carbon-based gas which is typically quite poisonous or toxic. Many VOCs are highly carcinogenic or cancer inducing. These chemicals appear in homes from off-gassing of common household cleaners, furniture and building materials.

The PRO-Cell core is maintenance-free and never needs replacing. The Healthy Home System 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



Features

- AirFresh™ Carbon Odor Adsorption
- UVC Germicidal Lamp
- Patented PRO-Cell™ Technology
- Five models (120V or 24V)
- Available in 11", 14" and 16"
- Virtually maintenance free
- Easy to install
- Compatible with existing duct work

CDC and ASHRAE Recommendations

The Center for Disease Control and Prevention (CDC) recommends the use of UVGI as an effective technology to minimize the spread of airborne microorganisms. The American Society of Heating and Air Conditioning Engineers (ASHRAE) has addressed concerns of contagious viral disease transmission with recommended mitigation strategies that include dilution fresh air ventilation, filtration, and UVGI.

Healthy Home System® products do not generate ozone.

Ozone is a toxic gas which can damage the lungs. Even small amounts can cause chest pain, coughing, shortness of breath, and throat irritation.

Ozone may also worsen chronic respiratory diseases such as asthma and compromise the ability of the body to fight respiratory infections.



Beware of Misleading Terms

- Energized oxygen
- Singlet oxygen
- Plasma
- Activated oxygen
- Friendly oxidizers
- Ionization

Ozone by any other name is still ozone.



Visit the EPA's website for more information
www.epa.gov/iaq/pubs/ozonegen.html

In-Duct Air Purifiers and Deodorizers

Protect your family's health and make your HVAC run efficiently with a Healthy Home System Duo!



UVGI Germicidal Lamp

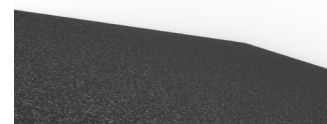
Ultraviolet germicidal irradiation is a disinfection method that uses short-wavelength ultraviolet light to reduce or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions.

PRO-Cell™ Catalytic Aluminum Substrate

PRO-Cell features a unique catalytic aluminum substrate to increase surface area and the catalytic output exponentially while magnifying the effectiveness of the UVC light. PRO-Cell is maintenance-free.

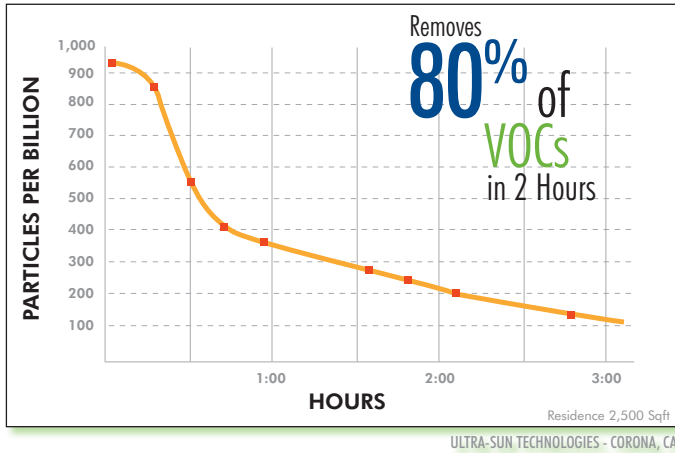
AirFresh™ Carbon Odor Absorption Media

Activated carbon reduces unwanted odors by acting as an adsorbent which will trap the odor inside the activated carbon and retain it. Activated carbon is excellent at reducing unwanted and harmful odors, pollutants and VOCs.

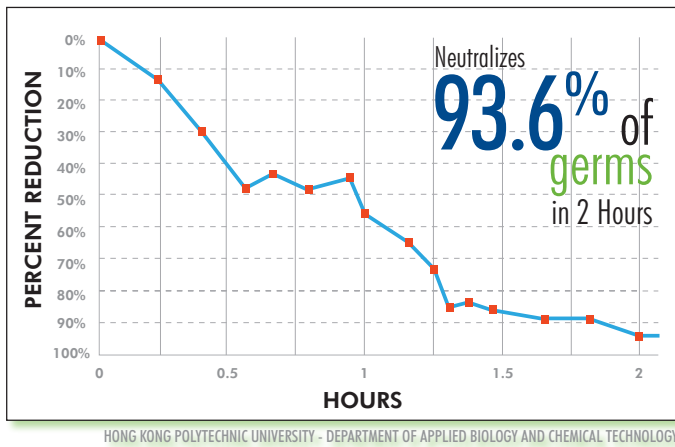


Independent Testing

Chemical VOCs



Virus and Bacteria Reduction



Air Quality Survey

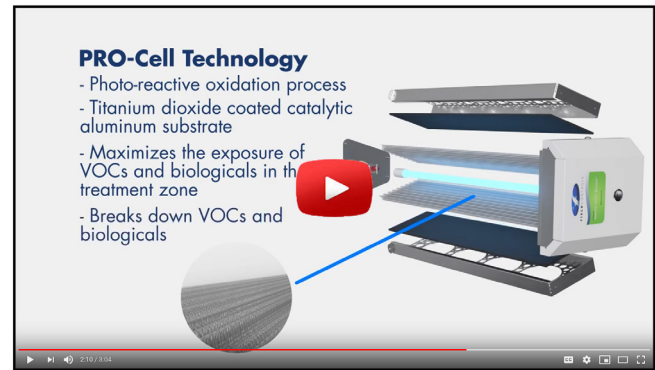
Yes No

- Do you have concerns about airborne bacteria, viruses, mold and fungi? Yes No
- Do you or a family member have allergies, asthma, or any respiratory ailment? Yes No
- Do respiratory illnesses cost you and your family time and money? Yes No
- Do you sometimes suffer from sinus infections, fatigue, or eye irritation while at home? Yes No
- Do cooking odors seem to linger for excessive periods of time? Yes No
- Does your home ever smell stale or musty? Yes No

If you answered yes to any of the above questions, call our Field Controls Healthy Home Specialist for a customized indoor air quality solution.



Learn more at fieldcontrols.com/pro-cell-technology



Learn more at fieldcontrols.com/duo

Duo™ Whole House Air Purifier & Air Deodorizer Models

Model	Sizing (tons)	Voltage	Lamp Wattage	Lamp Intensity			Bacterial Germicidal Reduction	Toxic Gas Reduction (VOCs)	Pressure Drop (in WC)
				($\mu\text{W}/\text{cm}^2@1\text{m}$)	($\mu\text{W}/\text{cm}^2@1\text{in}$)	($\mu\text{W}/\text{cm}^2@0\text{in}$)			
Duo-2000	1.5 to 5.0	120/230	50	135	17,145	47,790	99%	99.9%	.02
Duo-16/120V	1.5 to 5.0	120	30	62	7,874	21,948	99%	99.9%	.02
Duo-16/24V	1.5 to 5.0	24	30	62	7,874	21,948	99%	99.9%	.02
Duo-14/24V	1.5 to 4.0	24	17	57	7,239	20,178	99%	99.9%	.017
Duo-11/24V	1.5 to 3.0	24	15	43	5,461	15,122	99%	99.9%	.015



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West Coast Office
Distribution/Manufacturing
Corona, CA
951.277.0304