

AIR PURIFIERS

CX1000 PORTABLE AIR PURIFIER



Using patented technology, CX1000 Portable Air Purifier removes airborne particles, neutralize odors and chemicals, and render germs, viruses and bacteria harmless. Ideal applications include homes, schools, day cares, offices, beauty salons, and more.

Features & Benefits

- 1,000 square feet of complete air purification
- Create a cleaner environment and promote health and wellness
- High-intensity, UVC germicidal lamp
- Photocatalytic Oxidation (PCO) process neutralizes odors and toxic VOCs
- Easy maintenance
- Built-in electronic service lights
- Electronic sensors constantly monitor air quality
- Warning lights signal presence of toxic chemicals and fumes
- Ozone free
- Limited 2-year warranty (excludes lamp and filters)

Five-stage process to purify indoor air:

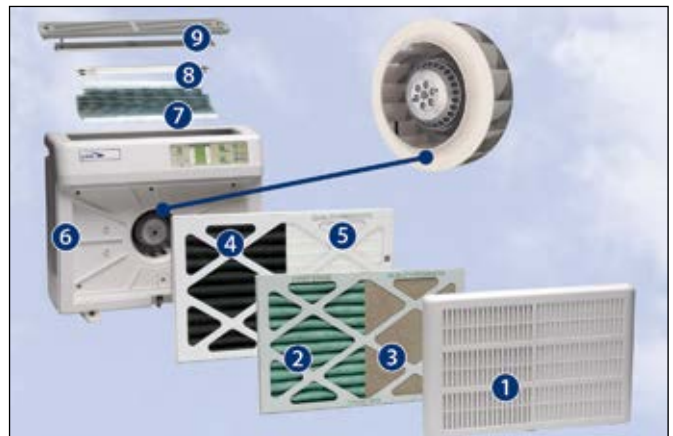
1. Treated pre-filter - removes particles to 5 microns
2. Activated carbon filters (2) - reduce toxic chemicals and gases
3. Hospital grade HEPA filter - purges allergens to 0.3 microns
4. Reactive catalyst - neutralizes VOCs, toxic chemicals, and odors
5. UVC light - renders germs, viruses, and bacteria harmless

MODEL	DIM. (in.)	MAX AIRFLOW (cfm)	VOLTAGE (V)	POWER (watts)	LAMP (watts)	UV RANGE (nm)	LAMP INTENSITY ($\mu\text{W}/\text{cm}^2$ @Surface)	WT (lbs)
CX1000	21.5 x 18 x 8	200	1/120/60	100	8	254	7,434	23
	APPLICATION (sq. ft.)		SERVICE INTERVALS*			WARRANTY		CATALYST
	1,000 (auto mode)		UVC lamp 1 year; filters 2 years			2 year (excluding lamp and filters)		Metal Oxides

*SERVICE INTERVALS ARE SUBJECTIVE TIMES AND MAY FLUCTUATE BASED ON ENVIRONMENT.

CX1000 Construction

1. Air inlet grille with safety lock
2. 5.0 micron pre-filter
3. 1st stage gas adsorption layer (activated carbon)
4. 2nd stage gas adsorption layer (activated carbon)
5. 0.3 micron hospital grade HEPA filter
6. High impact ABS plastic
7. Photo-catalytic converter
8. High output germicidal UVC lamp
9. Air outlet grille with safety lock



CX Air Purifiers:

- Create a cleaner environment
- Ease breathing problems
- Alleviate fatigue and headaches
- Promote health and wellness



- Cut dust and cleaning requirements
- Reduce asthma, hay fever and sinus problems
- Control pet odors and dander
- Relieve sore throats, runny noses and sneezing



CX3000GS DUCTED AIR PURIFIER



CX3000GS works in conjunction with an HVAC system and provides up to 3,000 square feet of air purification. Using patented technology, CX3000GS employs Photocatalytic Oxidation to convert toxic compounds into benign constituents such as water and carbon dioxide.

Features & Benefits

- 3,000 square feet of whole-house air purification
- Cut dust and reduce asthma, hay fever and sinus problems
- Operates in conjunction with an HVAC system up to five tones
- Easy maintenance
- Built-in electronic service lights
- High-intensity, UVC germicidal lamps
- Photocatalytic Oxidation (PCO) process neutralizes odors and toxic VOCs
- Titanium dioxide coated aluminum substrate
- Removes airborne particles, neutralizes chemicals and abates living organisms
- Ozone free
- Limited 2-year warranty (excludes lamp and filters)

Four-stage process to purify indoor air:

1. Electrostatic MERV-11 filter - removes allergens to 0.3 microns
2. Reactive catalyst - neutralizes VOCs, toxic chemicals, and odors
3. UVC light - renders germs, viruses, and bacteria harmless
4. Negative ions and activated oxygen - keep air fresh and clean

MODEL	DIM. (in.)	MAX AIRFLOW (cfm)	VOLTAGE (V)	POWER (watts)	LAMPS (2) (watts)	UV RANGE (nm)	LAMP INTENSITY (µW/cm ² @Surface)	WT (lbs)
CX3000GS	25.5 x 21 x 10	2170	1/120/60	45	22 per bulb	254	21,000	26
	APPLICATION (sq. ft.)		SERVICE INTERVALS*			WARRANTY		CATALYST
	3,000		UVC lamps 1 year; filters 6 months			2 year (excluding lamp and filters)		Metal Oxides

*SERVICE INTERVALS ARE SUBJECTIVE TIMES AND MAY FLUCTUATE BASED ON ENVIRONMENT.

CX3000GS Construction

1. Electrostatically charged needled fiber MERV-11 filter
2. Powder coated Paint-Loc steel case
3. High output germicidal UVC lamps
4. Rust-proof gold zinc plated pull out case
5. Cabinet locks
6. Quick disconnect power cord
7. Photo-catalytic converter - 70 sq. ft. of surface area
8. Sight ports to verify lamp operation
9. Computerized service panel



What is PCO (Photocatalytic Oxidation)?

PCO, also known as Photocatalytic Oxidation, is a reaction that occurs when Titanium Dioxide (TiO₂) is exposed to ultraviolet (UVC) light. This process converts harmful and toxic compounds into benign constituents, such as water and carbon dioxide.



CX-PRO IN-DUCT AIR PURIFIER



CX-Pro combines three powerful purification forces in an in-duct whole house air purifier. The UVC germicidal lamp neutralizes viruses, bacteria and mold. The patented design uses a Photocatalytic Oxidation (PCO) process to neutralize odors and toxic VOCs into benign constituents and an activated carbon adsorption media to trap odors and toxic chemicals.

Features & Benefits

- High-intensity, UVC germicidal lamp
- Aluminum substrate and carbon media never need replacing
- Easily installs in an HVAC duct system
- Install in supply duct, in return plenum or above AC coil
- Irradiates AC coil of toxic organics and biofilm
- Neutralizes viruses, bacteria and mold
- Breaks down VOCs and biologicals
- Traps odors and toxic chemicals
- Ozone free
- Pre-wired 120V power cord; 230V option
- 2-year lamp efficiency
- Limited 10-year warranty (excludes lamp)
- In as little as two hours the CX-Pro neutralizes:
 - 93.6% of airborne germs
 - 80% of odors and VOCs

MODEL	IN-DUCT DIM. (in.)	SIZING (tons)	PRESSURE DROP (in. wg)	SURFACE AREA (sq. in.)	VOLTAGE (V)	UV RANGE (nm)	LAMP (watts)	LAMP INTENSITY ($\mu\text{W}/\text{cm}^2@1\text{m}$)	WT (lbs)
CX-Pro	17.75	1.5 - 5.0	0.02	3,500	120/230	254	50	135	3.6



1. UVC germicidal lamp
 - Neutralizes airborne microbes such as viruses, bacteria and mold
 - Irradiates AC coil of toxic organics and biofilm
2. Catalytic aluminum substrate
 - Breaks down VOCs and biologicals with its patented PCO process
3. Activated carbon adsorption media
 - Traps odors and toxic chemicals with its activated carbon surface

How does the CX-Pro work?

As indoor air circulates through the duct system, it passes through the treatment zone of the CX-Pro. The UVC germicidal lamp neutralizes an organism's DNA, preventing it from replicating. The catalytic aluminum substrate, which is permanently bonded with titanium dioxide, maximizes the exposure of biologicals and toxic gases. The PCO process occurs when the catalyst is excited by the irradiation of UVC light, deactivating microbes and deconstructing molecular bonds. While the carbon adsorption media traps odors and toxic impurities, the PCO process catalyzes impurities and refreshes the carbon adsorption media.



CX-AIRE IN-DUCT AIR PURIFIER



Features & Benefits

- Compact design easily installs in an HVAC duct system
- Effectively neutralizes viruses, bacteria, mold and fungi
- Irradiates AC coil of toxic organics and biofilm
- High-intensity, energy efficient UVC germicidal lamp
- Install in supply duct, return plenum or above AC coil
- Continuous operation
- Ozone free
- Pre-wired 120V power cord
- Built-in safety switch
- 2-year lamp efficiency; simple twist-and-lock replacement
- Limited 10-year warranty (excludes lamp)

With the power of UVGI (ultraviolet germicidal irradiation) light, CX-Aire In-duct Air Purifier effectively neutralizes harmful airborne viruses, bacteria, mold and fungi. The UVC light purifies the indoor air as it circulates through the treatment zone within the HVAC duct system.

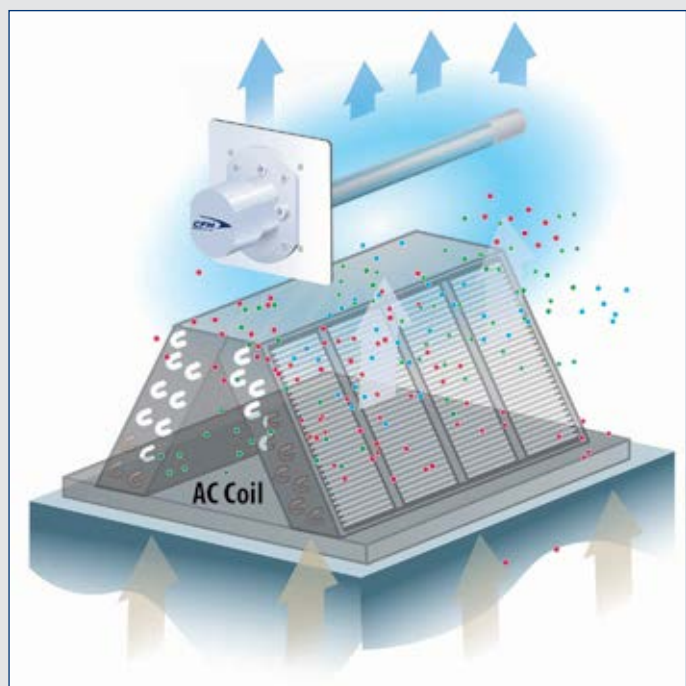
MODEL	IN-DUCT DIM. (in.)	SIZING (tons)	VOLTAGE (V)	UV RANGE (nm)	LAMP (watts)	LAMP INTENSITY ($\mu\text{W}/\text{cm}^2@1\text{m}$)
CX-Aire	16	1.5 - 5.0	120	254	30	62

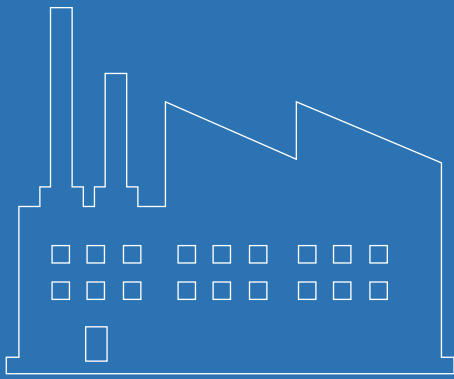
Where to position the CX-Aire

Indoor air in a typical HVAC system will recirculate 75-150 times a day. A CX-Aire installed in a supply or return duct will provide cumulative exposure that effectively controls airborne contaminants. The UVC light neutralizes airborne viruses, bacteria, and mold that circulate through the treatment zone in the ductwork.

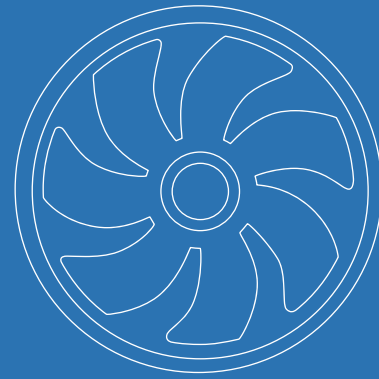
An AC coil is often located in moist, dark places where mold and toxic biofilm can easily breed. During an HVAC system cycle, mold and toxic biofilm are released into the air because of an unhealthy buildup on the AC coil. When a CX-Aire is installed near the AC coil, the UVC light cleanses the coils and prevents that unhealthy buildup from reforming. This allows an AC system to run efficiently, which consequently reduces energy and maintenance costs and extends the life of the equipment.

Double the germ fighting power by locating a CX-Aire in a return or supply duct and a second CX-Aire above an AC coil.





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