



DAVE LENNOX
signature
COLLECTION

Indoor Air Quality Systems



PCO-12C/20C

Cleans the air in your home better than any other single system you can buy

LENNOX

HOME COMFORT SYSTEMS
Innovation never felt so good.™



Innovation never felt so good.™

Dave Lennox Signature™ Collection PureAir™ Air Purification System

Custom, whole-home system solution that removes particles and bioaerosols, and destroys household odors/chemical vapors

MERV 10, 4" pleated filter for removal of most small, breathable particles down to 1 micron

Only single indoor air quality system to attack all three classes of contaminants: small, breathable particles; airborne mold spores, bacteria and viruses; and odors/chemical vapors

Industry-exclusive air purification technology

No home is immune to indoor air quality (IAQ) problems. New homes tend to have higher concentrations of chemicals. Older homes can be breeding grounds for mold and mildew. And all homes, no matter how clean they appear, contain dirt and dust.

CLEANS THE AIR IN YOUR HOME BETTER THAN ANY OTHER SINGLE SYSTEM YOU CAN BUY

The PureAir™ air purification system helps control everything from microscopic dust mites and mold spores to infectious bacteria and viruses. And it's the only indoor air quality system that safely removes and destroys odors and chemical vapors. Lennox gives you the innovative option for customizing the air in your home and creating a pure, clean, comfortable environment.

Benefits of good indoor air quality

Health – An environment virtually free of potentially harmful contaminants.

Cleanliness – A home environment with a minimal amount of dust, dirt and odors.

Comfort – Proper humidity, air distribution and temperature control.

THREE CLASSES OF AIR CONTAMINANTS



Particles—Pollen, dust mites, dirt, pet dander. Particles are any substances measuring less than 100 microns in diameter.



Bioaerosols—Bacteria, viruses, mold spores, fungi. Microscopic living organisms that grow and reproduce in warm, humid places.



Odors/Chemical Vapors—Pet odors, cooking smells, perfumes, cleaning supplies, paints, solvents. Air contaminants in the form of gases.

WARRANTY*

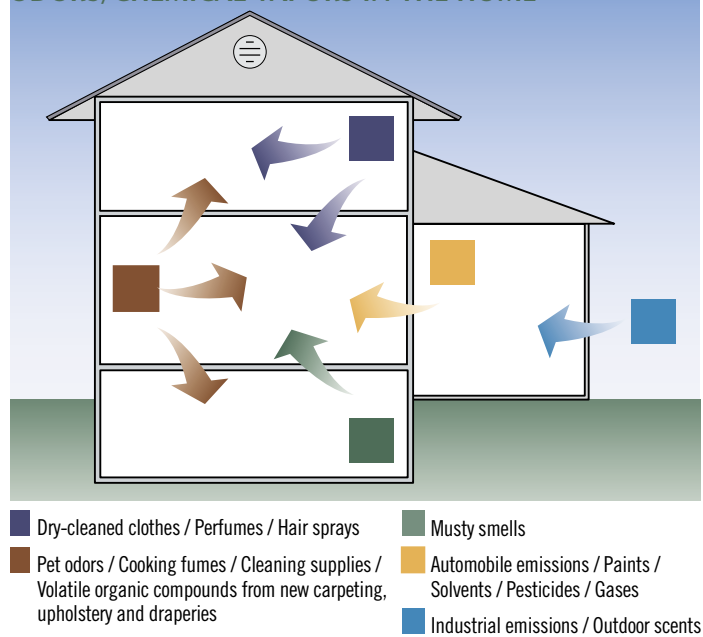
5-year limited warranty on covered components.

*Applies to residential applications only. See actual warranty certificate for details.

Total home comfort and peace of mind.

The Mayo Clinic has found that air cleaners attached to whole-house systems are generally more effective than freestanding air cleaners. An optimal solution for central HVAC systems, the PureAir™ Air Purification System installs easily on the air handler (return air side),¹ where a filter would typically be placed.

ODORS/CHEMICAL VAPORS IN THE HOME



Odors and chemical vapors can come from many different sources inside and outside the home. Once inside the home, these pollutants circulate through the ductwork, entering every room and living space. Using innovative air-purification technology, the PureAir System helps remove the hundreds of odors/chemical vapors that can contaminate your home's air.

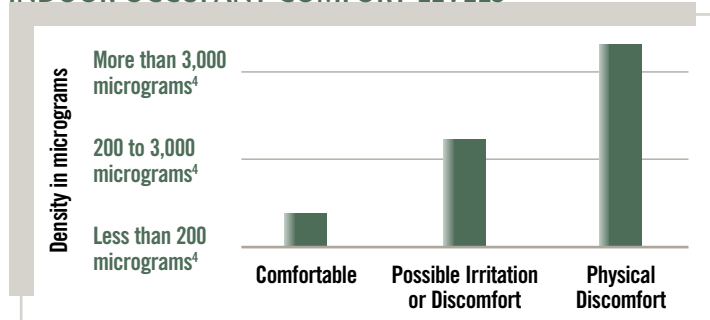
UNMATCHED CLEANING POWER OF THE PUREAIR™ SYSTEM, COMPARED TO OTHER TECHNOLOGIES

	PureAir™ System	Active Carbon Filter	HEPA Filter	High-Energy UVC Light	Electrostatic Filter	Box Filter
Captures small, breathable particles	◆	◆	◆		◆	◆
Captures airborne mold and other bioaerosols	◆	◆	◆			
Captures and destroys odors (cooking fumes, pet odors)	◆	◆ ²		◆		
Captures and destroys chemical vapors (pet odors/fumes from household products)	◆	◆ ²		◆		
Does not generate ozone	◆	◆	◆	◆ ³		◆
Low operating cost	◆		◆	◆	◆	◆

²Requires maintenance.

³With use of non-ozone lamps.

EFFECT OF ODORS/CHEMICAL VAPORS ON INDOOR OCCUPANT COMFORT LEVELS



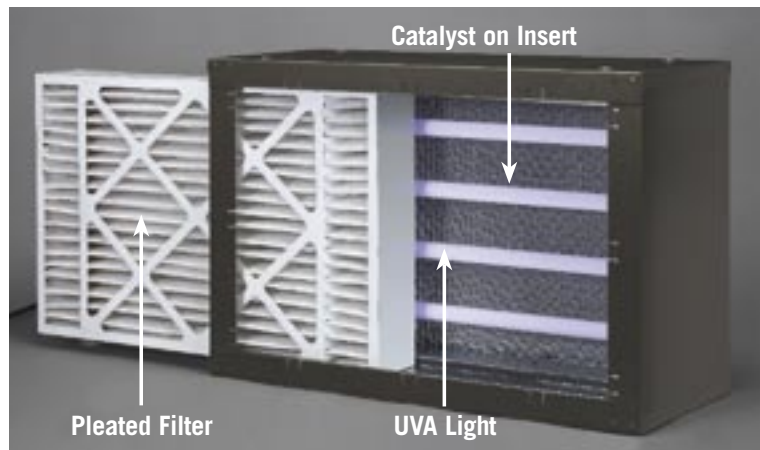
⁴Per meter cubed. May vary depending on individual sensitivity. Source: Molhave Study

The effects of odors and chemical vapors on your family's comfort and health depend on the types and concentrations of them within your home, as well as your individual sensitivity. Generally, the more odors and chemical vapors in the home, the more likely you are to suffer an adverse reaction, such as dizziness or shortness of breath. This is especially true if you have asthma or some other respiratory ailment.

¹One unit should be used in each air handler and model selection should be based on the size of the air handler. PureAir units should NOT be placed in the supply side (after the heater) because the higher temperature may compromise system performance.

Three main components

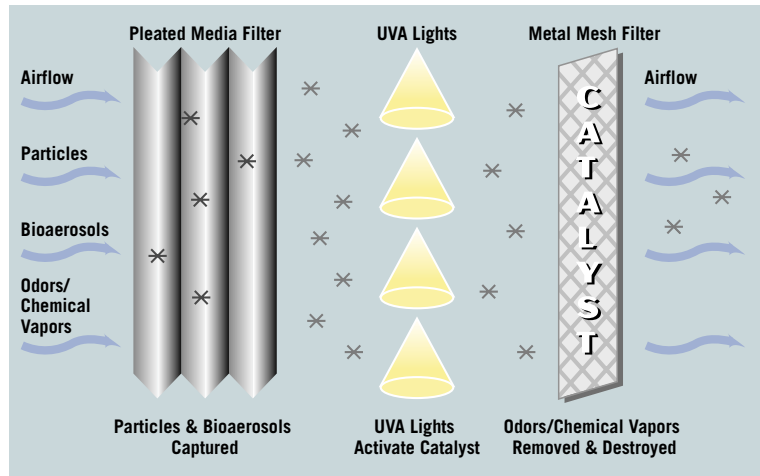
The revolutionary Healthy Climate® Series PureAir™ Air Purification System consists of a pleated filter, multiple 17-watt UVA lamps and a metal insert that is coated with a catalyst that's activated by ultraviolet (UVA) light.



Three powerful air purifiers

The PureAir System reduces concentrations of pollutants through a process called photocatalytic oxidation (PCO) that combines nature's three most powerful air purifiers:

- ◆ Ultraviolet light (UVA)†
- ◆ Titanium dioxide catalyst, a nontoxic substance found in everyday household products
- ◆ Hydroxyl radicals, formed through the chemical reaction of the UVA light, catalyst and airstream, destroy organic compounds



Three fast, effective steps

The PCO process involves three steps:

- 1) The pleated, 4" MERV 10 filter captures particles and bioaerosols as small as 1 micron, removing them from the airstream—contaminants that standard filtration systems simply can't stop.
- 2) As the odor- and chemical vapor-filled airstream flows over the ultraviolet light, the airstream is exposed to the catalytic surface (titanium dioxide-coated metal filter).
- 3) The light energy and water vapor in the air activate the titanium dioxide catalyst, which generates hydroxyl radicals. These particles attack the odors and chemical vapors, breaking them down into carbon dioxide and water. The conversion process occurs as the carbon components of the odors and chemical vapors react with the hydroxyl radicals, creating carbon dioxide and water vapor.

The PureAir™ Air Purification System is the only single system that effectively combats all three types of contaminants.

†Hg-LAMPS CONTAIN MERCURY. Manage in accordance with disposal laws. Refer to www.lamprecycle.org or call 1-800-9-LENNOX.



HEALTHY CLIMATE® SERIES PUREAIR™ AIR PURIFICATION SYSTEM



PCO-12C/20C

Cleans the air in your home better than any other single system you can buy.

An air purification system unlike any other

- ◆ Industry-leading air purification technology
- ◆ Only single indoor air quality system to attack all three classes of indoor air contaminants:
 - Small, breathable particles such as dust, dirt, pollen and allergens
 - Airborne mold spores, bacteria and viruses
 - Odors and chemical vapors
- ◆ Removes particles ranging in size down to 1 micron
- ◆ Removes bioaerosols ranging in size down to 1 micron
- ◆ Removes and destroys approximately 50% of household odors and chemical vapors in a 24-hour period (based on laboratory and field studies)
- ◆ Standard model uses a MERV 10, 4" pleated filter

According to the U.S. Environmental Protection Agency, **the air inside the average home is up to five times more polluted than the air outside.**** Results from in-home air tests across North America support this government finding. Nearly every home (96%)*** had at least one IAQ problem:

- ◆ 86% had high levels of particles and bioaerosols like dust, pollen and viruses
- ◆ 71% were filled with odors and potentially harmful chemicals and gases

Dave Lennox Signature™ Collection PureAir™ Air Purification Systems Specifications

PCO	12C	20C
Pleated Media Filter	MERV 10	MERV 10
Filter Life	1 Year/3,500 hrs.*	1 Year/3,500 hrs.*
Lamp Life	4 Lamps/2 Years	6 Lamps/2 Years
Insert Life	2 Years	2 Years
Electrical Rating	120V; 1.4 amps; 60Hz; 168 watts	120V; 2.1 amps; 60Hz; 252 watts
Dimensions HxWxD (in.)	19-1/2 x 11-5/8 x 29	23-7/8 x 11-5/8 x 29
HxWxD (mm)	495 x 295 x 737	606 x 295 x 737

*Based on average hours of fan operation from six cities when thermostats are placed on "auto" versus "continuous" fan. More frequent filter changes may be required in situation with high dust or dirt loads.

Note: Due to Lennox' ongoing commitment to quality, all specifications, ratings and dimensions are subject to change without notice.





CUSTOMIZE YOUR COMFORT

Lennox® heating, cooling and indoor air quality products are designed to provide efficient, economical comfort—not only as individual units, but also together as an integrated system. This combined network of products delivers on every comfort count, from consistent temperatures and balanced humidity to improved indoor air quality.

DEALERS YOU CAN COUNT ON

Choosing the right dealer for your home's heating, cooling and air quality needs is every bit as important as choosing the right brand. We think you'll agree our independent dealers are a big reason you can count on quality customer service whenever you call. Your Lennox dealer's dedication to quality shows in his knowledge, training and expertise in designing the right system for your home, installing it properly and keeping it running perfectly for many years to come.



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