



LENNOX

INNOVATION NEVER FELT SO GOOD.™

DAVE LENNOX  
*signature*  
COLLECTION

Indoor Air Quality Systems



**PCO-12U/20U**

The only system that safely removes odors and chemical vapors



# Dave Lennox Signature™ Collection PureAir™ Air Purification System

Innovation never felt so good.™

MERV 8, 3" pleated filter for removal of even the smallest particles down to 3 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

Simple replacement for Lennox® media air cleaners and Aprilaire® filters

You've already made a good decision about your home environment and health by purchasing an indoor air quality system. For even more effective contaminant removal, upgrade to the PureAir™ Air Purification System, the only indoor air quality system that safely removes and destroys odors and chemical vapors.

## THE MOST COMPLETE WAY TO CLEAN THE AIR IN YOUR HOME AND KEEP IT FREE OF UNHEALTHY CONTAMINANTS

The revolutionary PureAir System cleans the air in your home better than any other single system you can buy. It uses patented photocatalytic oxidation technology to filter, purify and freshen the air, and it combines all these capabilities in one integrated system. As an added benefit, the PureAir System fits into the same space as your existing Lennox Pleated Media Air Cleaner (PMAC) or Aprilaire® (formerly SpaceGard®) filter. Simply slide out your old filtration system and slide in the PureAir System!

### Highly effective filtration

Rated MERV 8, the PureAir System offers powerful filtration capabilities similar to your existing air cleaner or filter. It captures and destroys particles and bioaerosols as small as 3 micron.

### 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.

### WARRANTY

5-year limited warranty on covered components.

### SOURCES OF HOUSEHOLD ODORS/CHEMICAL VAPORS



**Bioaerosols**, such as certain mold spores and bacteria, viruses and fungi.



**Particles**, including pollen, dust mites, dirt and pet dander.



**Household Products**, such as cleaning products, hobby supplies, solvents, adhesives, paints and dry-cleaned clothing.



**Combustion Products**, including cigarettes.



**Volatile Organic Compounds (VOCs)**, originating from building materials, such as upholstered furnishings, carpeting, adhesives, fresh paint, new paneling and pesticides.

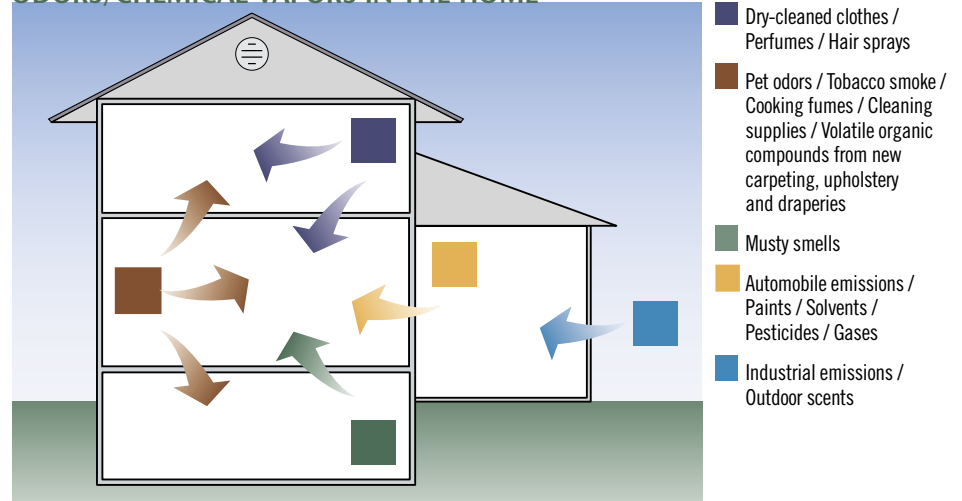


PureAir™ Air Purification System is the only indoor air quality system that safely removes odors and chemical vapors

## Total home comfort and peace of mind

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™ Air Purification System helps remove the hundreds of odors/chemical vapors that can contaminate your home's air.

## ODORS/CHEMICAL VAPORS IN THE HOME



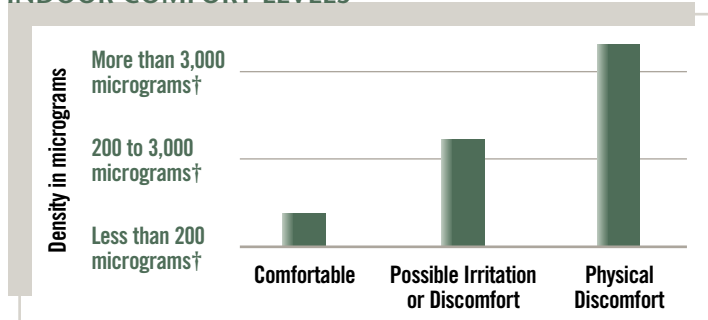
## UNMATCHED CLEANING POWER OF THE PUREAIR™ SYSTEM, COMPARED TO OTHER TECHNOLOGIES

	PureAir™ System	Active Carbon Filter	HEPA Filter	Air Ozonation	Chemical/Biocidal	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)	◆	◆*				◆		
Captures and destroys chemical vapors (tobacco smoke/fumes from household products)	◆	◆*		◆		◆		
Creates no hazardous waste products	◆	◆	◆			◆**		◆
Does not generate ozone	◆	◆	◆			◆**		◆
Low operating cost	◆		◆	◆		◆	◆	◆

\*Requires maintenance.

\*\*With use of non-ozone lamps.

## EFFECT OF ODORS/CHEMICAL VAPORS ON INDOOR COMFORT LEVELS



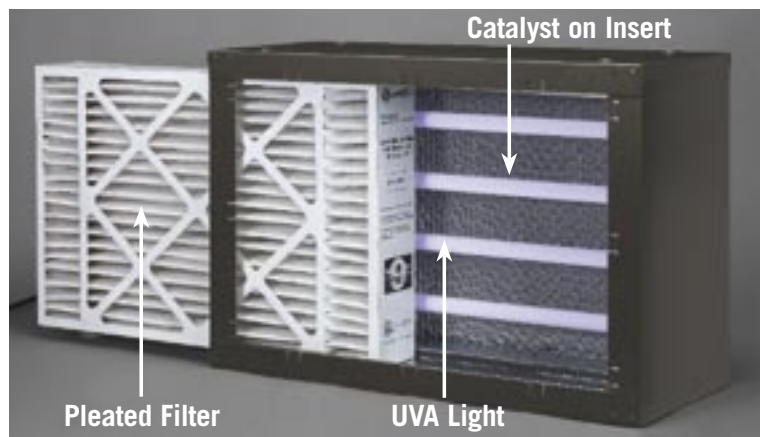
†Per meter cubed. May vary depending on individual sensitivity.

Source: Molhave Study

The effects of odors and chemical vapors on your 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.

### Three main components

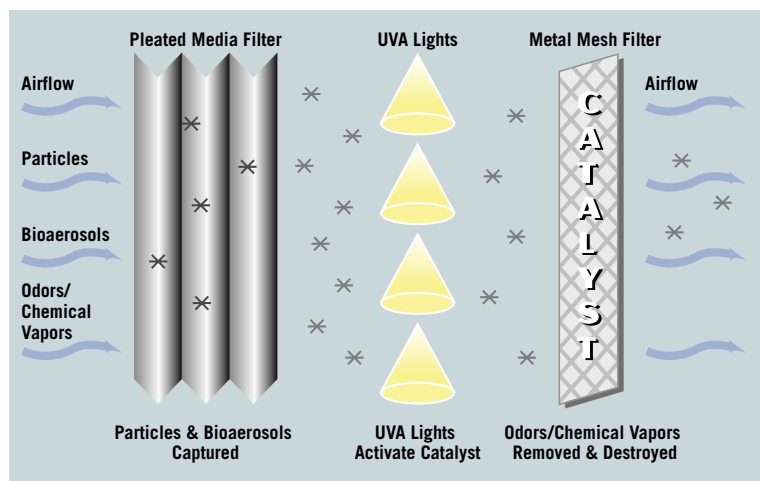
The revolutionary Healthy Climate® Series PureAir™ Air Purification System consists of a pleated filter, four (PCO-12U) or six (PCO-20U) 17-watt UVA lamps and a metal insert that is coated with a catalyst that's activated by ultraviolet (UVA) light.



### 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, 3" MERV 8 filter captures particles and bioaerosols as small as 3 micron, removing them from the airstream.
- 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 break down the odors and chemical vapors 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](http://www.lamprecycle.org) or call 1-800-9-LENNOX.



## HEALTHY CLIMATE® SERIES PUREAIR™ AIR PURIFICATION SYSTEM



### Installs in just minutes!

Fits into the same space as your existing Lennox® Pleated Media Air Cleaner (PMAC) or Aprilaire® (SpaceGard®) filter. Simply slide out your existing filtration system and slide in the PureAir™ System.

### Industry-leading air purification technology

Upgrade to the Dave Lennox *Signature*™ Collection PureAir™ Air Purification System for more effective removal of contaminants

- ◆ Removes and destroys approximately 50% of household odors and chemical vapors in a 24-hour period (based on laboratory and field tests)
  - Cooking odors
  - Cleaning product vapors
  - Paint solvents
  - Pet odors
  - Vapors from cigarette smoke



**PCO-12U/20U**  
 Cleans the air in your home better than any other single system you can buy.

### Dave Lennox *Signature*™ Collection PureAir™ Air Purification Systems Specifications

PCO	12U	20U
Pleated Media Filter	MERV 8	MERV 8
Filter Life	6 Months/1,750 hours*	6 Months/1,750 hours*
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 9-5/8 x 29	23-7/8 x 9-5/8 x 29
HxWxD (mm)	495 x 245 x 737	606 x 245 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.*

*Warranties noted apply to residential applications only and are limited. Please see actual warranty for details.*



The Asthma and Allergy Foundation of America does not endorse any commercial products.



- 1 Air conditioner or heat pump
- 2 Thermostat
- 3 Furnace or air handler
- 4 Filtration device
- 5 Germicidal light
- 6 Indoor coil
- 7 Humidifier
- 8 HEPA bypass filtration system
- 9 Energy recovery ventilator
- 10 Supply duct
- 11 Return duct

## CONTINUOUS COMFORT NETWORK

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 heating, cooling and indoor air quality needs is every bit as important as choosing the right brand. We think you'll agree our dealers are a big reason you can count on quality customer service when you call.



**HOME COMFORT SYSTEMS**  
*Innovation never felt so good.™*

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Visit us at [www.lennox.com](http://www.lennox.com), or contact us at 1-800-9-LENNOX.