



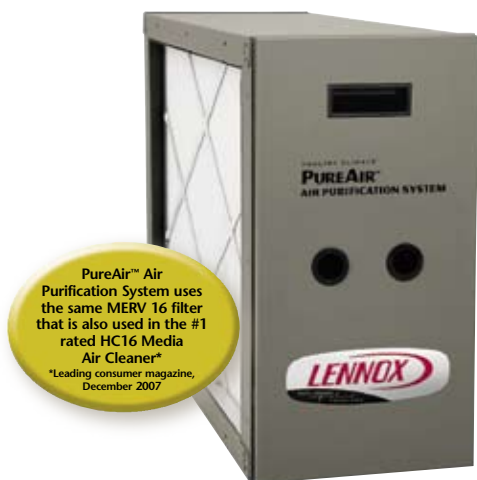
DAVE LENNOX  
*signature*  
COLLECTION

Indoor Air Quality Systems

## PureAir™ Air Purification System

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

- ◆ Removes particles including pollen, dust and pet dander
- ◆ Removes bioaerosols and microorganisms including mold, viruses, dust mites and bacteria
- ◆ Removes and destroys household odors and chemical vapors



PureAir™ Air Purification System uses the same MERV 16 filter that is also used in the #1 rated HC16 Media Air Cleaner\*

\*Leading consumer magazine, December 2007

**LENNOX**

HOME COMFORT SYSTEMS

*Innovation never felt so good.™*



# Dave Lennox Signature® Collection PureAir™ Air Purification System

Innovation never felt so good.™

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

Precision Pleat™ MERV 16, 5" filter for over 95% removal of small, breathable particles down to .3 micron

Removes over 90% of bioaerosols ranging in size down to .01 micron

No ozone emissions, a known lung irritant

Industry-exclusive air purification technology

No home is immune to indoor air quality (IAQ) problems. All homes can contain elevated concentrations of dust, dirt and chemicals. These impurities may not be visible to the naked eye. Homes can also be breeding grounds for mold and mildew.

## 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.

## THE PUREAIR™ SYSTEM ATTACKS ALL THREE CLASSES OF AIR CONTAMINANTS



**Particles**—Removes over 95% of particles down to .3 micron including pollen, dust, and pet dander. Particles are any substances measuring less than 100 microns in diameter.



**Bioaerosols and Microorganisms**—Removes over 90% of bioaerosols down to .01 micron including viruses, dust mites, bacteria, mold spores, and fungi. Microscopic living organisms that grow and reproduce in warm, humid places.



**Odors/Chemical Vapors**—Destroys volatile organic compounds (VOCs) including cleaning supplies, solvents, cooking smells, and pet odors. Air contaminants in the form of gases.

### WARRANTY\*

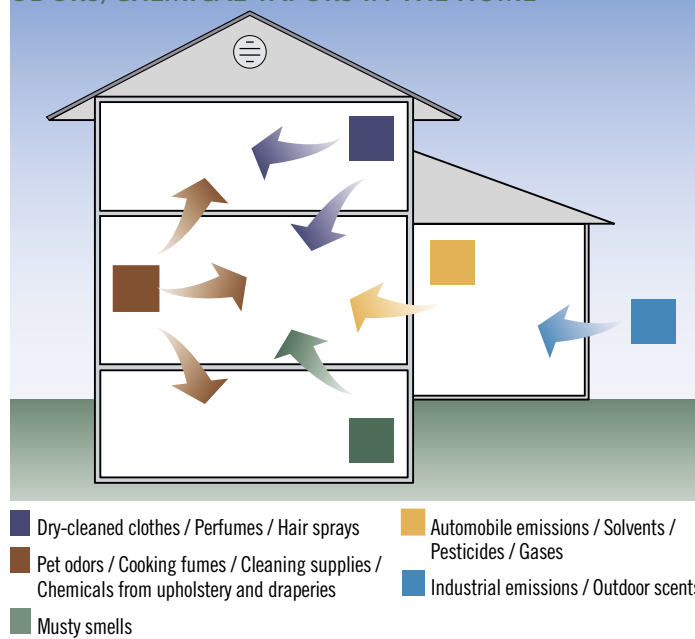
5-year limited warranty on covered components.

\*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 furnace or air handler (return air side),<sup>1</sup> where a filter would typically be placed.

**ODORS/CHEMICAL VAPORS IN THE HOME**



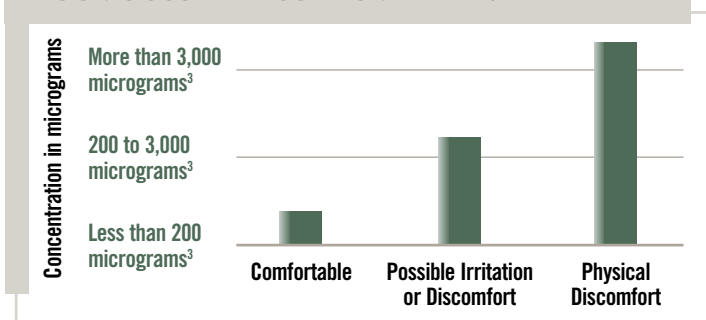
Odors and chemical vapors can come from many different sources inside and outside the home. Once inside the home, these pollutants circulate through the ductwork, entering every room and living space. Using innovative air-purification technology, the PureAir System helps remove the hundreds of odors/chemical 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	Electronic Air Cleaners	Standard Box Filter
Captures small, breathable particles down to .3 micron	◆		◆		◆	◆
Captures airborne mold and other bioaerosols down to .01 micron	◆		◆			
Captures and destroys odors (cooking fumes, pet odors)	◆	◆				
Captures and destroys chemical vapors (pet odors/fumes from household products)	◆	◆				
Does not generate ozone	◆	◆	◆	◆ <sup>2</sup>		◆
Low operating cost	◆		◆	◆	◆	◆

<sup>2</sup>With use of non-ozone lamps.

**EFFECT OF ODORS/CHEMICAL VAPORS ON INDOOR OCCUPANT COMFORT LEVELS**



<sup>3</sup>Per 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.

<sup>1</sup>One 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

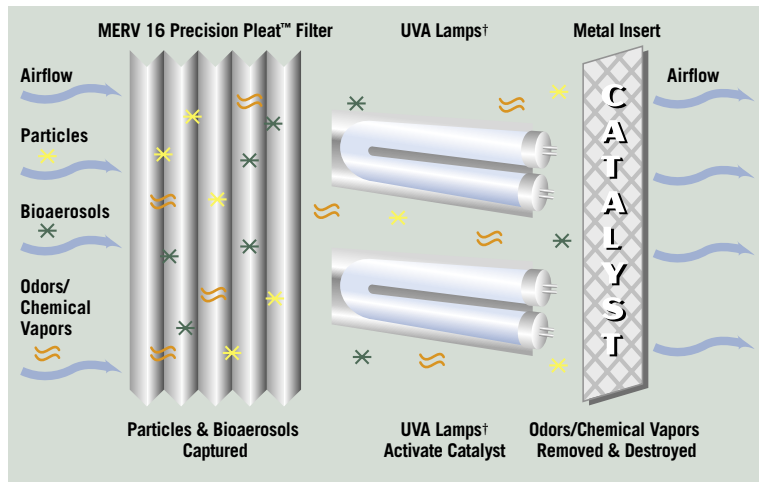
The revolutionary PureAir™ Air Purification System consists of a MERV 16 Precision Pleat™ filter, two 55-watt UVA lamps† and a metal insert that is coated with a catalyst that's activated by ultraviolet (UVA) light.



### Three powerful air purifiers

The PureAir System reduces concentrations of pollutants through a process called photocatalytic oxidation (PCO) that combines three of nature's 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 catalyst and water vapor in the air, that destroy organic compounds



### Three fast, effective steps

The PCO process involves three steps:

- 1) The Precision Pleat MERV 16, 5" filter captures particles and bioaerosols as small as .01 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 UVA lamps,† 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 hydroxyl radicals attack the carbon components of the odors and chemical vapors, breaking them down into carbon dioxide and water.

**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.



## PUREAIR™ AIR PURIFICATION SYSTEM

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 over 95% of particles ranging in size down to .3 micron
- ◆ Removes over 90% of bioaerosols ranging in size down to .01 micron
- ◆ Removes and destroys approximately 50% of household odors and chemical vapors in a 24-hour period (based on laboratory and field studies)
- ◆ Reduces and destroys ozone (a product of pollution and a known lung irritant)



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

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

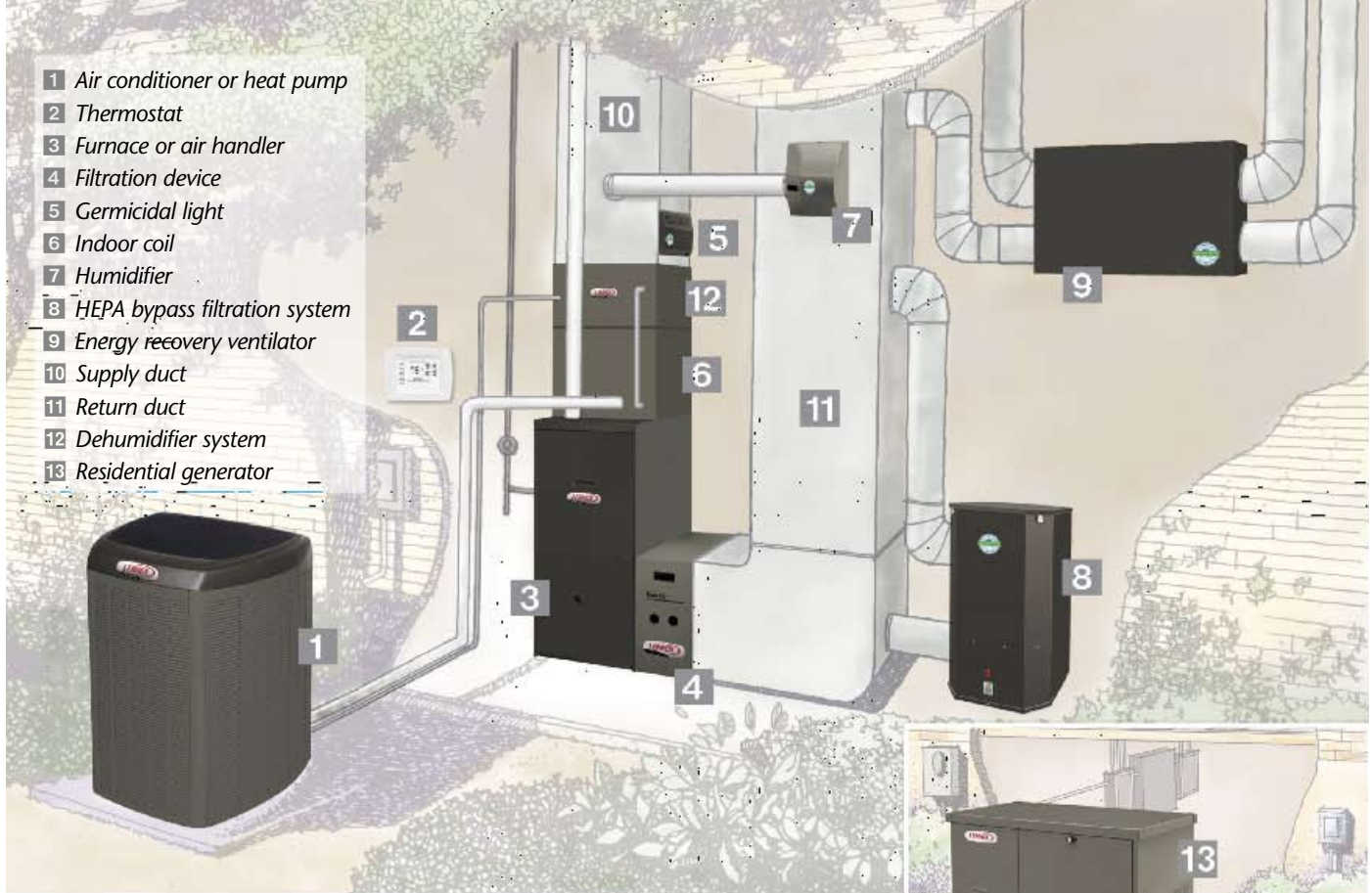
### Dave Lennox Signature® Collection PureAir™ Air Purification Systems Specifications

PCO	14-23	16-28	20-28
Precision Pleat™ Filter	MERV 16	MERV 16	MERV 16
Filter Life	1 Year*	1 Year*	1 Year*
Lamp Life	2 Lamps/1 Year	2 Lamps/1 Year	2 Lamps/1 Year
Insert Life	1 Year*	1 Year*	1 Year*
Electrical Rating	120/230V; 50/60 Hz; 150 watts; 1.2/.65 amps	120/230V; 50/60 Hz; 150 watts; 1.2/.65 amps	120/230V; 50/60 Hz; 150 watts; 1.2/.65 amps
Dimensions	HxWxD (in.)	17-1/2 x 10 x 28-1/2	21-1/8 x 10 x 28-1/2
	HxWxD (mm)	537 x 254 x 584	445 x 254 x 724

\*Based on average hours of fan operation from six cities when thermostats are placed on "auto" versus "continuous" fan. Filter/insert may require more frequent changes in situations with high chemical contamination, high dust/dirt loads or with continuous fan operation.

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.





- 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
- 12 Dehumidifier system
- 13 Residential generator

## 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. Lennox also offers a line of residential generators, which provide safe, reliable standby power in the event of outages.

## 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.

**LENNOX**

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