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Dallas, Texas USA



## PUREAIR™ AIR PURIFICATION SYSTEM

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### HOMEOWNERS IAQ GUIDE FOR PUREAIR™ MODELS PCO-12C, PCO-20C

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#### GENERAL

The PureAir™ air purification system helps to significantly reduce levels of airborne volatile organic compounds, cooking odors, common household odors, airborne dust particles and mold spores, and pollen in residential spaces. The PureAir™ air purification system includes a MERV 9 Pleated Filter, UVA lamps, and a Metal Insert that is coated with a titanium dioxide catalyst. As air enters the system, a percentage of airborne particles and bioaerosols, such as mold and bacteria, larger than .3 microns are captured by the pleated filter. The smaller airborne particles, odors, and chemicals continue through the system. The UVA lamp activates the catalyst on the Metal Insert. The catalyst combines with water vapor in the air to form hydroxyl radicals that destroy a percentage of the remaining odors and chemicals.

**The PureAir™ air purification system is NOT intended to be used for remediation of active mold growth or high (industrial) levels of chemicals in the air. For existing mold growth, the mold must be remediated by a qualified service provider PRIOR to installation of your PureAir™ air purification system.**

**NOTE:** If there is a sudden source of contamination in your home [caused by burned food, cleaning an oven, painting or hobby work that releases chemicals (model airplanes, soldering, furniture finishing, etc.)], the PureAir™ air purification system WILL NOT reduce the odor immediately. In cases of sudden source contamination, open windows and doors to rapidly reduce the concentration of the contaminant.

#### INDOOR AIR QUALITY(IAQ) METHODS

Optimal indoor air quality can be obtained in a home by using source reduction, ventilation, humidification, and purification methods.

#### SOURCE REDUCTION

Identify and remove or reduce the sources of poor indoor air quality in the home. Specific pollutants which may affect indoor air quality include:

**Dirt & Dust:** Prevent leakage of dirty air and dust from unconditioned spaces (i.e. attics) into the HVAC system by sealing the ducts with mastic or aluminum tape along all joints. Use a vacuum cleaner equipped with a HEPA filter to permanently remove small dirt particles rather than simply redistributing them, as is the case with a conventional vacuum cleaner.

**Odors/Chemicals:** Remove sources of odors and chemical contamination from the home and use products that minimize contaminate levels in the air. The new PureAir™ air purification system removes and destroys odors/chemicals.

**Mold:** Minimize mold by controlling moisture. Prevent roof and water pipe leaks and it is recommended that relative humidity be kept between 30%-50%. Contact a contractor if you have a water leak. Ask your Lennox dealer about products that reduce humidity levels in the home [variable speed air handlers/furnaces/compressors, humidity controls and dehumidifiers (85X74)].

Once the mold is removed by a qualified mold remediation company, the Healthy Climate™ PureAir™ air purification system [models PCO-12C (75X69) and PCO-20C(75X61)] will help to remove low level mold spores in the air.

Optional Healthy Climate™ Germicidal Lights [models UV-500 (46X85), UV-1000 (46X87) and UV-2000 (46X89)] greatly reduce new mold growth on illuminated surfaces.

An accumulation of dirt and dust in the air ducts creates an ideal site for mold growth. To ensure optimal indoor air quality, non-porous insulation or externally insulated ducts should be used, particularly on the supply side (i.e. externally insulated metal plenums and ducts or, smooth-lined flex duct are preferred).

If your home has existing active mold growth, you may need to work with a company that specializes in mold remediation. Lennox is a sponsor of the Indoor Air Quality Association (IAQA). Contact the

IAQA (PH: 301 962-3804; Website: [www.iaqa.org](http://www.iaqa.org)) or your state's health department for a list of companies which specialize in mold remediation and training.

### VENTILATION

Contaminants in the home can be reduced by adequate ventilation. Natural ventilation can be used by opening windows. Open windows are not a good option for people who are sensitive to pollutants in the outdoor air (pollens, chemicals, etc.). Healthy Climate™ Energy Recovery Ventilators [models ERV1-150 (64X66) and ERV1-200 (64X68)] and Heat Recovery Ventilators [models HRV1-150 (64X65) and HRV1-200 (64X67)] can provide filtered ventilation. If you, or someone in your family is sensitive to outdoor pollutants, ask your Lennox dealer about these products. Exhaust fans which vent stale or contaminated air to the outside should be installed in the kitchen, bathroom(s) and laundry areas to effectively remove contaminants. If there is a sudden source of contamination in your home [caused by burned food, oven cleaner, paint or hobby work that releases chemicals (model airplanes, soldering, furniture refinishing, etc.)], the PureAir™ air purification system WILL NOT reduce the odor immediately. In cases of sudden source contamination, open windows and doors to rapidly reduce the concentration of the contaminant.

### HUMIDIFICATION

Dry, cold air in your home can make your nose and throat feel dry, and cause or aggravate other respiratory ailments. By adding moisture to your home's air, and maintaining proper moisture levels, the Healthy Climate™ Humidifiers [models WB2-12 (35X51) and WB2-17 (35X52) and WP2-18 (35X50)] keep you comfortable in your home by reducing the occurrences of dry skin, chapped lips, and those annoying static shocks. The Healthy Climate™ Humidifiers come in by-pass and power models, and work well as a companion to your PureAir™ air purification system.

### PURIFICATION

Chemicals are converted to carbon dioxide, water and minerals (PureAir™ air purification system) and molds are killed or inactivated (Healthy Climate™ germicidal lights). For optimal indoor air quality the Healthy Climate™ Germicidal Lights are recommended as a companion product to your PureAir™

air purification system. These products should be installed near the A/C coil to help prevent mold growth on the damp coil.

### MONITORING and MAINTAINING IAQ

The air quality in homes can be continuously monitored for Temperature and Relative Humidity (%RH). Ask your Lennox dealer about long-term monitoring of T & %RH and CO (carbon monoxide) (72N00), as well as additional monitoring options for additional IAQ parameters as cost-effective options become available. Also available is a Total Volatile Organic Compound (TVOC) test kit, processed by an independent analytical lab, that identifies the level of chemical contaminants in the home (Part. No. X0264).

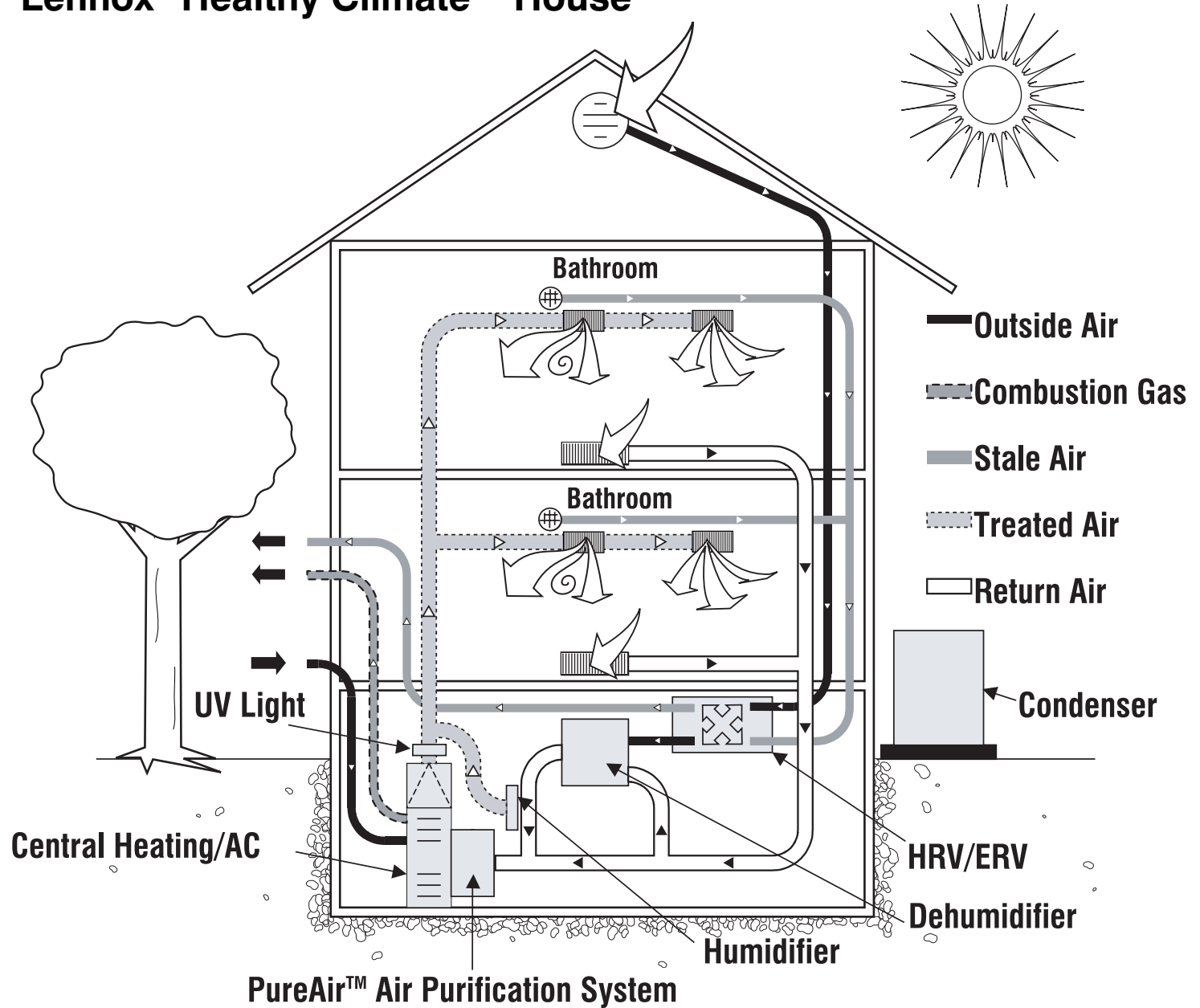
A healthy climate can ONLY be sustained with regular maintenance of the home system. In order to maintain optimal performance, the homeowner must change filters and lamps on the PureAir™ system, change humidifier pads on the humidifier, change germicidal lamps on each UV germicidal unit, keep the air ducts and air conditioning coils clean and properly charged, etc. The best way to ensure that the system is properly maintained is to utilize a semi-annual service contract offered by your Lennox dealer. The system should be checked for optimal performance with routine maintenance performed at the beginning of every heating and cooling season. Maintenance is particularly critical if there are people in the home with allergies, asthma or other environmental sensitivities.

For a better understanding of the triggers that are related to allergies and asthma, please contact the Asthma and Allergy Foundation of America ([www.aafa.org](http://www.aafa.org)). Lennox is a sponsor of the Asthma and Allergy Foundation of America for improved consumer education of IAQ.

### ROUTINE MAINTENANCE

Refer to the PureAir™ Air Purification System Installation and Maintenance Instructions for the details of the recommended maintenance.

**Lennox® Healthy Climate™ House**



**NOTE TO CUSTOMER**

Please complete information below and retain for your future reference.

Unit Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Installing Contractor: \_\_\_\_\_

Date of Installation: \_\_\_\_\_

Phone: \_\_\_\_\_

# LIMITED WARRANTY

## FAILURE TO MAINTAIN YOUR EQUIPMENT WILL VOID THIS WARRANTY

Your Lennox PureAir™ air purification system is expressly warranted from the date of installation to be free from manufacturing defects for the coverage period stated below. Defective parts must be returned no later than thirty (30) days after the failure by you to the installing contractor together with the PureAir™ air purification system's model number, serial number, and documented installation date of the PureAir™ air purification system.

### FIVE (5) YEAR COVERAGE -- RESIDENTIAL APPLICATIONS

The covered equipment and covered components are warranted by Lennox for a period of five (5) years from the date of the original unit installation, when installed in a residential application. If during this period, a covered component fails because of a manufacturing defect, Lennox will provide a free replacement part. You must pay shipping charges and all other costs of warranty service. Lennox will not pay labor involved in diagnostic calls or in removing, repairing, servicing or replacing parts. Such costs may be covered by a separate warranty provided by the installer.

### ONE (1) YEAR COVERAGE -- OTHER NON-RESIDENTIAL APPLICATIONS

Covered equipment and covered components are warranted by Lennox for a period of one (1) year from the date of the original unit installation when installed in non-residential applications.

NOTE - If the date of original installation cannot be verified, the warranty period will be deemed to begin six (6) months after the date of manufacture.

### EXCLUDED COMPONENTS

The following components are not covered by this warranty: the UVA lamps, the Metal Insert, and the Pleated Filter. These are replacement items, which must be replaced as stated in the Maintenance section of the installation instructions to ensure effective operation.

### REPAIRS

All repairs of covered components must be made with authorized service parts by a qualified service dealer or contractor. Labor charges are not covered by this warranty.

### WARRANTY LIMITATIONS

This warranty will be voided if the covered equipment is removed from the original installation site. This warranty does not cover damage or defect resulting from:

- 1 - Flood, wind, fire, lightning, or installation and operation in a corrosive atmosphere (chlorine, fluorine, salt, recycled waste water, urine, fertilizers, or other damaging chemicals).
- 2 - Accident, or neglect or unreasonable use or operation of the equipment, including operation of electrical equipment at voltages other than the range specified on the unit nameplate (includes damages caused by brownouts).
- 3 - Modification, change or alteration of the equipment, except as directed by Lennox.
- 4 - Operation with system components (indoor unit and control devices), which do not match, or meet the specifications recommended by Lennox.

THIS WARRANTY SHALL NOT OBLIGATE THE MANUFACTURER FOR ANY LABOR COSTS AND SHALL NOT APPLY TO DEFECTS IN WORKMANSHIP OR MATERIALS FURNISHED BY THE INSTALLING CONTRACTOR AS CONTRASTED TO DEFECTS IN THE PUREAIR™ AIR PURIFICATION SYSTEM ITSELF. IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFORESAID COVERAGE PERIOD. THE MANUFACTURER'S LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFORESAID IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT FROM FAILURE TO HAVE THIS UNIT INSTALLED BY A QUALIFIED HEATING AND AIR CONDITIONING CONTRACTOR. IF THE LIMITED WARRANTY IS VOID DUE TO FAILURE TO USE A QUALIFIED CONTRACTOR, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

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**To register your new PureAir™ Air Purification System, PLEASE CUT ON DOTTED LINE AND RETURN THE REGISTRATION FORM TO THE ADDRESS NOTED BELOW.**

### Customer Registration Form

Customer Name: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Zip/Postal Code: \_\_\_\_\_

Home Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Installing Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

Date of installation: \_\_\_\_\_ Model Number: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Please send this completed form to: PureAir™  
Lennox Industries  
P.O. Box 799900  
Dallas, TX 75379