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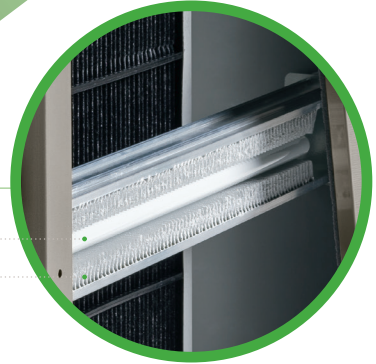
# INDOOR AIR QUALITY GUIDE

WHOLE-HOME SOLUTIONS FOR:

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- AIR PURIFICATION
- FILTRATION
- HUMIDITY CONTROL
- VENTILATION

**SEE INSIDE FOR PRODUCT DETAILS**



UVA Lamp  
PCO Cartridge

# PureAir™ cleans air better than any single system on the market

## How PureAir™ works

- Carbon Clean 16® MERV 16 filter
- Photocatalytic oxidation cartridge
- Germicidal UVA light

## MERV\* Rating

# 16

This MERV rating is the **highest available** and unmatched in the residential industry.

The **Carbon Clean 16®** filter component is the highest rated whole-home filter in the industry. It improves ozone reduction and odor elimination while maintaining low static pressure.

## Germicidal UV Lights

Further improve air quality and protect equipment by sterilizing surfaces.

## Photocatalytic Oxidation

Eliminates airborne volatile organic compounds, odors, ozone, and chemical vapors.

## Attacks VOCs

**Volatile organic compounds** — often found throughout the home in paint, cleaning supplies, air fresheners, and building materials — can make asthma worse and cause headaches and long-term damage to the liver and kidneys.

## Does NOT Produce Ozone

The list of organizations that warn against indoor ozone is extensive (EPA, American Lung Association, Consumer Reports, CARB, and others).

## Destroys Ozone

**PureAir™** goes beyond not producing ozone — it actively converts it into oxygen, significantly reducing ozone levels in the home.

## Destroys Odors

The PCO cartridge has been designed to maximize odor reduction performance in the home.

## Removes Formaldehyde

The EPA and the National Cancer Institute have labeled formaldehyde, found in many home-building products, a cancer agent.

## Cabinet Width

# 8.75"

Cabinet features slim design for easier installation and compatibility with more applications.

## Build ongoing customer relationships

Create a recurring revenue stream with routine **PureAir™ maintenance kit** replacements.

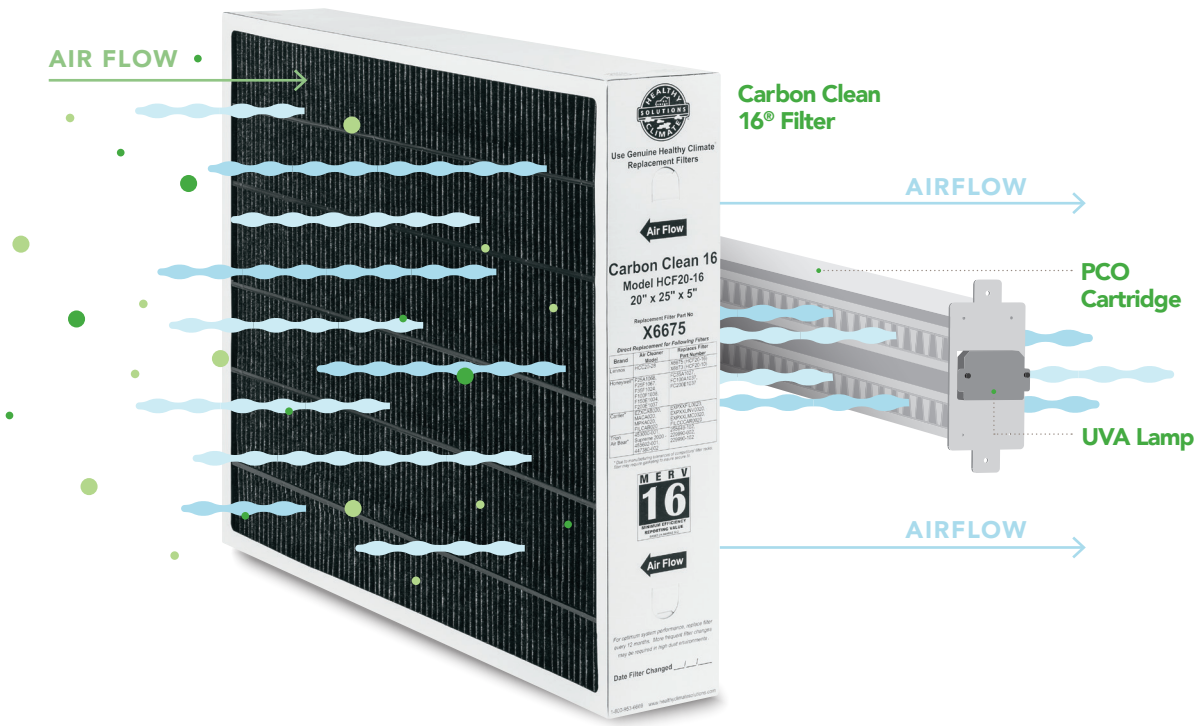
## NO Homeowner Cleaning

The annual **PureAir™ maintenance kit** installed by the contractor ensures optimal performance.

That means no vacuuming, brushing, or other cleaning of internal components, which homeowners are reluctant to perform and which result in degradation of advertised performance.

\* The MERV (Minimum Efficiency Reporting Value) rating of a filter describes the size of the holes in the filter that allow air to pass through. The higher the MERV rating, the smaller the holes in the filter, the higher the efficiency.

# How PureAir™ Works



**Carbon Clean 16<sup>®</sup> MERV 16 Filter**  
**Photocatalytic Oxidation Cartridge**  
**UVA Light**

Combine to make the *best*  
*single system on the market.*

# Better filtration, meet better airflow

- Universal filters compatible with other manufacturers' equipment
- Made with patented exclusive fiber
- Carbon Clean 16® and HC11 filters have less pressure drop and lower power consumption than both 1-inch and 5-inch competitors
- Systems work more efficiently, run easier, and cost less



## BEST

PureAir™ with  
Carbon Clean 16®



## BETTER

Carbon Clean 16®



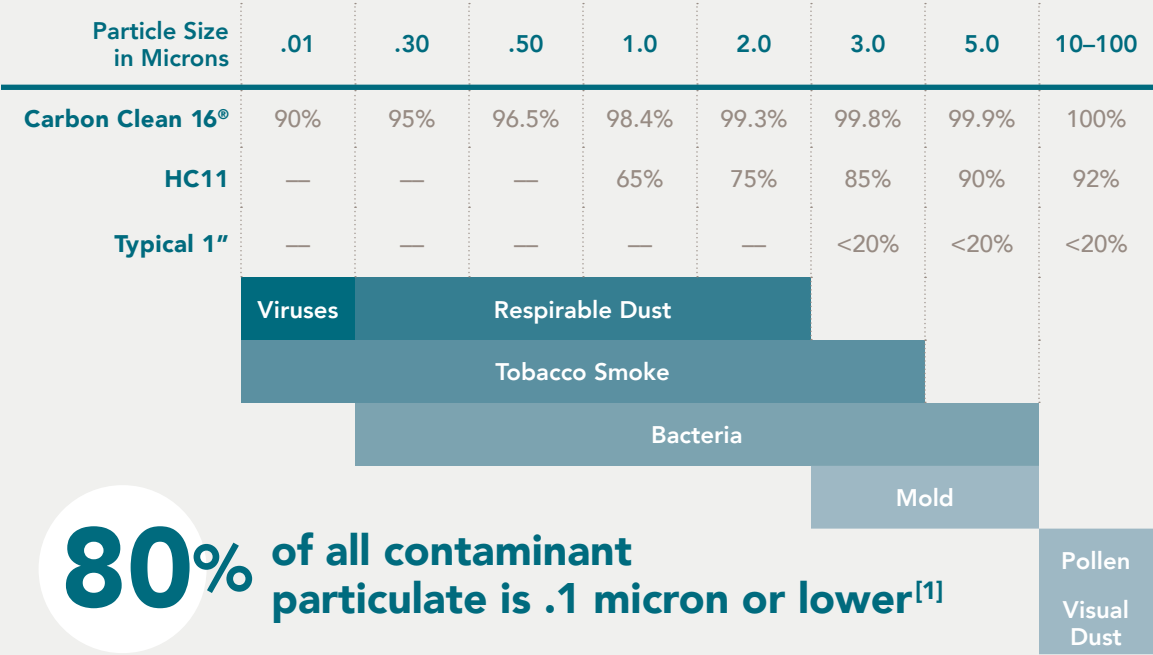
## GOOD

HC11



Don't see the products you need? Ask us, we've got more in the back.

# If a filter isn't catching ultra-fine particles, it's not doing enough



## What's in a filter?

**Minimum Efficiency Reporting Value (MERV)** is an independently tested, industry-standard method of evaluating filters based on the fraction of particles removed from air passing through them at a given velocity. A higher MERV rating means a greater percentage of particles are trapped by the filter.

**Pressure Drop** is the pressure difference between each side of the filter, measured in inches of water column (w.c., w.g.). A lower pressure drop score means the system can work more efficiently.

# Carbon Clean 16®

is the best filter on the market

**E2 Particle Removal  
1-3 Microns\*\***

**99% +**

Unsurpassed ability to eliminate particles, down to 1 to 3 microns.

**E1 Particle Removal  
0.3-1 Micron\*\***

**95% +**

The only competing units that can attack fine particles are electronic air cleaners, which produce harmful ozone as a byproduct.

**Ultra-Fine Particle Removal  
Down to .01 Micron —  
Including Viruses & Bacteria**

**90% +**

The only competing units that can attack microorganisms are electronic air cleaners, which produce harmful ozone as a byproduct.

**Top-Rated Filter from  
Leading Consumer  
Magazine**

Factors considered in the testing included dust removal, smoke removal, and airflow resistance.

**Pleated Filter**

Removes particles, bioaerosols, ozone, and odors.

**Eliminates Odors**

Carbon-coated fiber matrix reduces odors in the home.

**Destroys Ozone**

Achieves 50% first-pass reduction of indoor ozone level.

**MERV\* Rating**

**16**

MERV 16 rating is the highest in the industry.

**Hospital Inpatient Care/  
Surgery Level Filtration**

The minimum recommended filtration level for hospital treatment rooms is **MERV 14**, per 2015 ASHRAE handbook.

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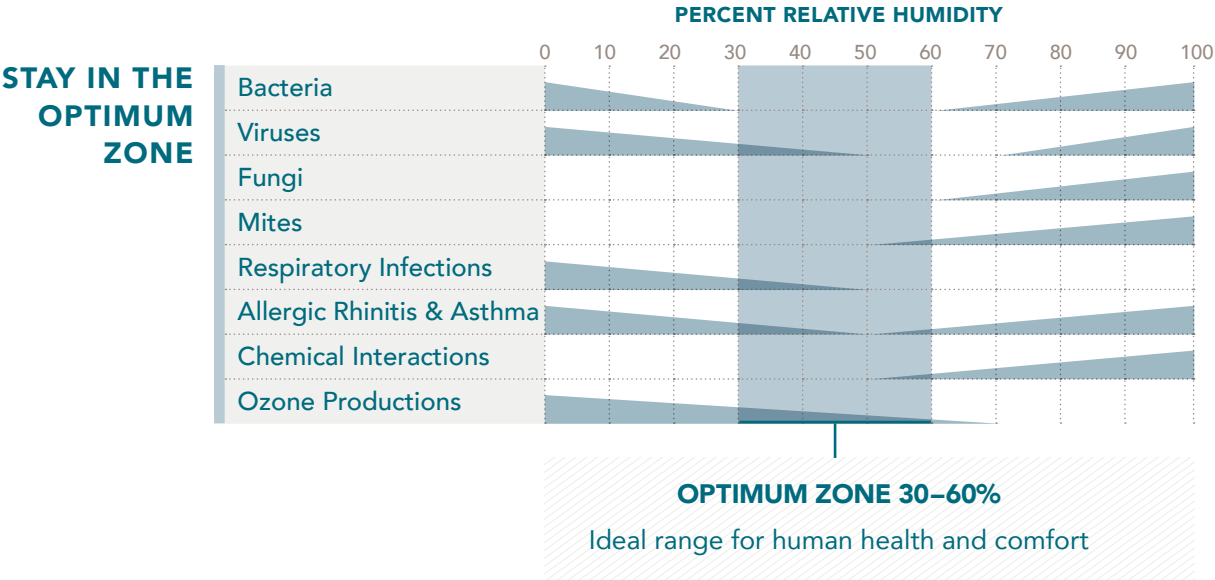
\*\* Per ASHRAE Standard 52.2

# Healthy Climate Solutions™

## keep homes in the optimum humidity zone

### WHY DOES HUMIDITY CONTROL MATTER?

- Health** A lack of humidity can contribute to many health ailments
- Comfort** Keep indoor RH at 30-60% for optimal comfort
- Preservation** Prevent damage to the home and its furnishings
- Energy Savings** Feel warmer at lower thermostat settings







## Power Humidifiers

Work independently of HVAC system to circulate humidified air with a built-in fan — deliver humidity even when your system isn't running.

### Model HCWP3-18

18 gallons per day

## Bypass Humidifiers

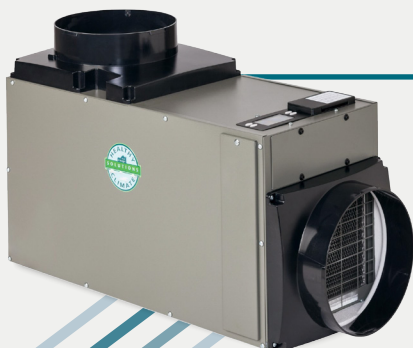
Work with HVAC system to direct humidified air throughout the home using the air handler or furnace fan.

### Model HCWB3-12

12 gallons per day

### Model HCWB3-17

17 gallons per day



## Dehumidifiers

A fast-growing product category that offers whole-home or single-zone installations with ventilation option.

### Model HCWHD3-070

70 pints per day

### Model HCWHD-3-130

130 pints per day

### Model HCWHD3-095

95 pints per day



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# Why should systems have **Healthy Climate® UV Germicidal Lights**?

- Destroy and control micro-organisms that travel through the air, including viruses, bacteria, yeasts, molds, and pet dander
- Control and eliminate biological contaminants that cause buildup inside equipment, particularly coils and drain pans, which can compromise performance
- Improve air quality and protect equipment by sterilizing surfaces



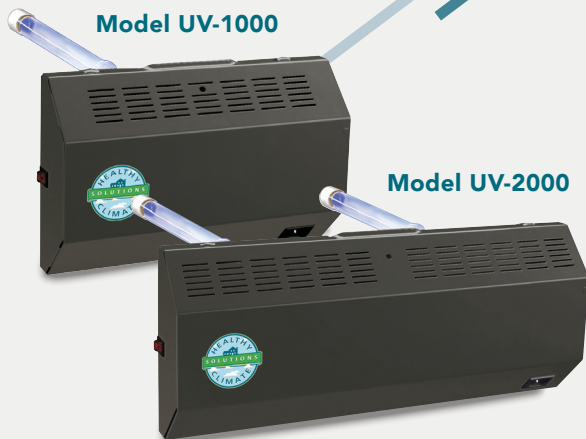
Model  
UVC-24V

**Healthy Climate® UV  
germicidal lights produce  
ZERO OZONE EMISSIONS**



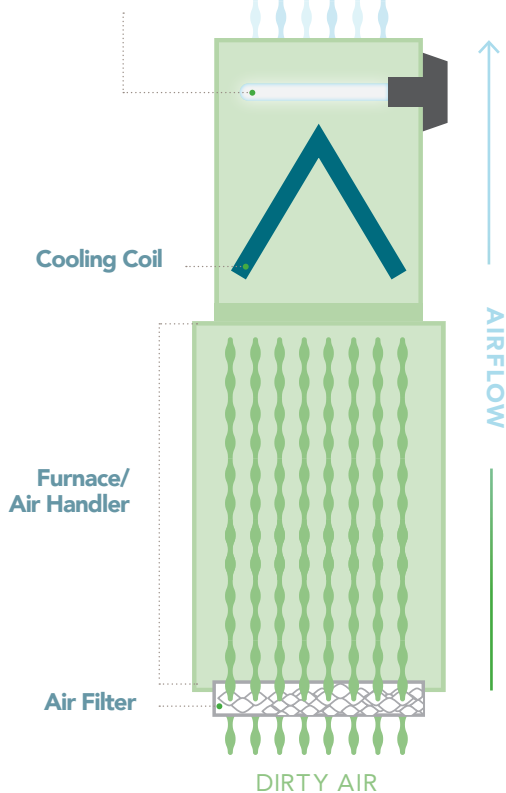
**There's more than what's in store.**  
Ask an associate if you don't see what you need.

# UV Lights



## UV1000 / 2000 Typical Installation

Neutralizes harmful  
contaminants in  
the heating and  
cooling system



## Features & Benefits

- Low power consumption
- Highest-intensity output among lamps on the market
- Dual- or single-lamp options
- 2,000 microwatts (UV-2000)
- 1,496 microwatts (UV-1000)
- External UV-proof viewing port
- Low maintenance and easy install in return air duct or near indoor coil or supply air duct
- 5-year limited warranty on covered components

# UVC Lights



Model UVC 41W-D

Model UVC-24V

## Features & Benefits

- Emit C-Band ultra-violet (UVC) energy at 253.7 nanometers
- Designed to fit into a wide variety of applications, including indoor coils, air handlers, and supply and return air duct work
- Installation flexibility with added safety features and simplified maintenance
- 5-year limited warranty on covered components

## UVC-24V / 41W-S / 41W-D Typical Installation

Neutralizes harmful  
contaminants in  
the heating and  
cooling system

Cooling Coil

Furnace/  
Air Handler

Air Filter

DIRTY AIR

AIRFLOW

# Proper ventilation is the key to a healthy home

## SIGNS OF POOR VENTILATION

- Lingering odors from cooking, pets, or other household activities
- Condensation on the windows during the heating seasons
- A general sense of stuffiness in the home

## WHY SHOULD HOMEOWNERS BE CONCERNED?

**Older Homes** without upgraded insulation and vapor barriers have natural air infiltration or passive ventilation, which means they:

- cannot control how much, or where, fresh air is entering the home
- have no heat recovery

**Newer Homes** are much tighter and allow less air flow due to the use of vapor barriers and increased insulation. This saves on heating costs, but can also lead to:

- poorer indoor air quality
- high humidity levels during the heating season

# Heat- and Energy-Recovery Ventilators

- 95-300-CFM-sized units, all providing balanced ventilation
- Wall control included (all units)
- 5-year limited warranty on covered components



Model ERV3-150/200

Model HRV5-150/200

Model HRV3-150

Model HRV3-195/300

## Heat-Recovery Ventilation

- Designed for colder climates and dry or desert-like areas
- Thermally conductive patented aluminum core transfers heat from indoor air before it's discharged
- Limited lifetime warranty on HRV core

## Energy-Recovery Ventilation

- Designed for warmer, humid climates
- Enthalpic core transfers moisture and heat back outdoors
- 10-year limited warranty on ERV core

# Ventilation Control Systems



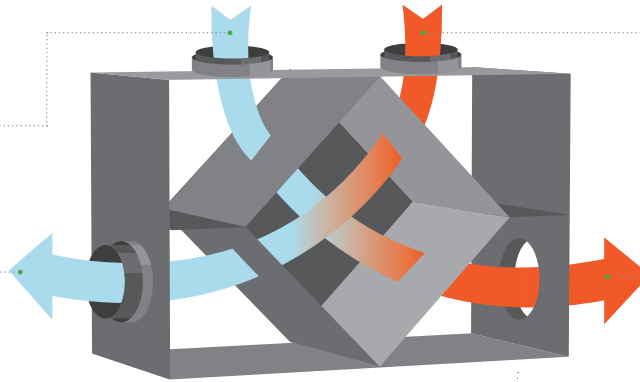
- Whole-home ventilation for improved indoor air quality and comfort
- Automatic monitoring of outdoor temperature and indoor relative humidity
- Compatible with any forced air HVAC system
- Digital ventilation controller is installed in return duct of a forced air HVAC system
- Meets ASHRAE 62.22010 Standard for Ventilation
- 2-year limited warranty on covered components

# How Ventilation Works

## HRV

Cool, fresh air is drawn into the HRV

Cool, stale air is expelled outside



Warm, stale air from your home is drawn into the HRV

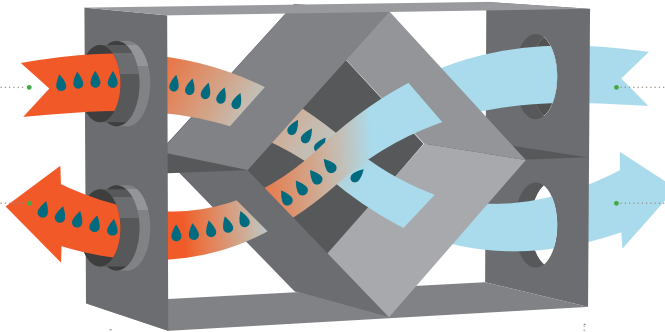
The entire home is filled with warm, clean, fresh air

Heat from the indoor air is transferred via the patented aluminum core to the incoming fresh air stream

## ERV

Warm, humid outdoor air is drawn into the ERV

Warm, stale air is expelled outside



Cool, stale indoor air is drawn into the ERV

The entire home is filled with cool, clean, fresh air

Using the ERV core technology, incoming moisture is transferred to the outgoing air stream. Incoming warm air is cooled at the ERV core before entering the home

••••• – MOISTURE

# Healthy Climate® products give your customer whole-home indoor air quality solutions



- **MAINTAIN** IDEAL HUMIDITY LEVELS
- **CYCLE** IN FRESH AIR



- **IMPROVE** COMFORT AND EFFICIENCY
- **PROTECT** AND EXTEND SYSTEM LIFE



- **REMOVE** HARMFUL GASES AND ODORS
- **REDUCE** PARTICLES AND ALLERGENS

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**Our aisles don't end here.**

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where we're **always fully stocked**.