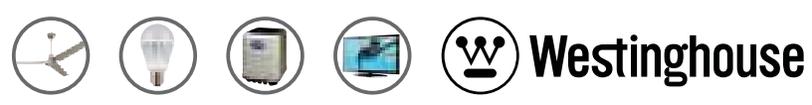




# Flawless Air

Indoor Air Quality Products



# Indoor Air Quality Products



According to studies by the U.S. Environmental Protection Agency (EPA), indoor levels of airborne pollutants may be 2-5 times, and occasionally 100 times, higher than outdoor levels. Moreover, we spend about 60% of our time inside our homes where poor air quality is attributed to the cause or aggravation of half of all illnesses.

Air contaminants consist of particles such as dust, pollen, and smoke, along with biological agents (e.g., bacteria, viruses, and mold), and gases or vapors traced to hundreds of Volatile Organic Compounds (VOCs) found in solvents, cleaners, adhesives and other common household chemicals, products and furnishings.



## HIGH-EFFICIENCY ELECTRONIC AIR CLEANERS

EAC, 1 Inch EAC, Whole-House HEPA and Media Retrofit

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**An Electronic Air Cleaner** removes irritating airborne allergens. A must for allergy or asthma sufferers. Lifetime filter system never needs replacing. Households with pets, or noticeable cooking/tobacco odors, will find a dramatic difference in air quality. Housekeeping time and redecorating costs will be significantly reduced. Protects and prolongs operating efficiency of heating and cooling equipment. Indoor air quality will be fresher and more comfortable, year-round.



**The HEPA (High Efficiency Particulate Air) Air Cleaner** captures 99.97% of harmful airborne pollutants 0.3 micron and larger. It is great for allergy, asthma and respiratory sufferers, especially those who spend enormous amounts on medication, nasal sprays, inhalers, allergy shots, etc. It helps protect new homeowners and renovators from excessive fumes and odors that are off-gassed from new carpets, cabinets, furniture, painted surfaces, varnishes, solvents, glues and more. Households with pets, tobacco/cooking odors or mustiness will find a dramatic difference in air quality. Indoor air quality will be fresher and healthier, year-round.



**A Media Retrofit Air Cleaner** removes irritating airborne allergens. A must for allergy or asthma sufferers. Protects furnishings and decor from staining dirt particles. Prolongs the life of your heating and cooling equipment.



**1-Inch Electronic Air Cleaners** improve indoor air filtration with an electronic air cleaner that can remove 95% of household allergens, such as dust mites, pollen and smoke.

*A Westinghouse electronic air cleaner is a healthy addition to your indoor air comfort system. It has been designed to remove airborne contaminants through the principle of electrostatic precipitation. Millions of airborne pollutants are carried through four stages of filtration. Some of these airborne contaminants naturally infiltrate your home like pollen, mold, fungi, bacteria, viruses, dust and mites. While other sources are generated by your lifestyles and activities within your home, like tobacco, wood or cooking smoke, pet dander, insecticides, toxins emitted from personal care products, household cleaners or hobbies.*

*The cumulative effect of these sources can pose a risk to your health, especially the young, elderly and chronically ill. Whether the effects are short or long ranging, they can include symptoms like irritation of the eyes, nose, and throat, headaches, dizziness, fatigue, tightness of chest, shortness of breath and even colds or flu.*

## ZONING SYSTEM

Reliable Comfort in Every Room

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**The Westinghouse Zoning System utilizes a programmable thermostat** to control each zone's damper. The settings are adjusted to reflect the activity levels at any time of the day throughout the house. Programming your entire home's heating and cooling helps you save as much as 30% on utility costs.



**Rather than using one thermostat to heat or cool an entire house,** living spaces are divided into separate comfort zones. You can either create individual or grouped room zones with a thermostat to set and monitor the ideal temperature for the most comfort.



**A properly zoned system allows you to use smaller-capacity equipment** in new installations for even greater savings without compromising comfort.



**The Westinghouse Zoning System includes a series of dampers** independently opened and closed within existing duct work using a programmable control panel. Our system allows you to customize comfort settings to handle up to ten zones. Airflow can then be selectively channeled where it's needed depending on changing climate conditions or activities during the course of a day. For example, the upstairs of a house is programmed for less heat than the downstairs during winter months. In the summer, these areas are zoned to compensate for uncomfortable temperature variations.

### ***Programmable Thermostats.***

*Because each zone's dampers are controlled by a dedicated thermostat, the ideal system should use digital thermostats that are programmable. Settings can then be adjusted to coincide with activity levels at any time of day throughout the house. In fact, significant savings can be realized by only conditioning selected areas according to need. Once you retire to bed, when you are away to work or school, or on vacation, requirements for heating or cooling are minimized altogether.*





## Zoning Comfort Technology

### Unique Damper Design

Unlike conventional zoning systems that rely on integrated sensors, reconfigured ductwork and motorized mechanical dampers, the Westinghouse Zoning System features a unique, air-actuated damper design with fewer moving parts for a longer, worry-free service life. This simplicity also allows for easier installation in any home, which eliminates the need for extensive retrofit modifications.

### Floor Plan Challenges – No Problem

Aside from the obvious benefits of controlling temperature swings between upstairs and downstairs, zoning can also remedy a host of other problematic scenarios. Vaulted ceilings, great rooms with connected kitchen and dining spaces, expanses of glass windows exposed to the sun from the south and/or winds from the north, sprawling ranches with hard-to-reach rooms and extended duct runs from centralized heating and cooling sources – all are challenges that no single thermostat can adequately meet.

**Bedroom  
Thermostat**



**Kitchen  
Thermostat**



**Living Room  
Thermostat**



**Zone Control Panel**



**Heating and Cooling System**



**Bedroom  
Zone**



**Kitchen  
Zone**



**Living  
Room  
Zone**

# Ultra Violet Air Purifiers



## **A Whole-House UV Air Purifier - The Best Defense**

Because it works inside your central air system a whole-house UV air purifier is able to intercept airborne pathogens and destroy them as they pass by. As air cycles through the system it passes by the UV light many times exposing and re-exposing airborne microbes to its sterilizing effect. This has proven to be a safe, economical, chemical-free way to significantly reduce airborne contaminants indoors.

### **WHY UV LIGHT?**

#### **Kill Germs With Light**

For over a century scientists have known that certain frequencies of light have a devastating effect on microbial life. We now know that exposure to ultraviolet light in the range of 254 NM (UV-C band) disrupts the DNA of micro-organisms thus preventing them from reproducing, thereby effectively killing them.

#### **UV Light - A Well Established Disinfection Technology**

UV light disinfection is now widely used in hospitals and laboratories to sanitize instruments and work surfaces and to prevent the spread of potentially lethal airborne infectious diseases. The technology is used by the food industry to sterilize food before packaging and water treatment systems large and small now incorporate UV light as a chemical-free means of purification.

#### **A Cleaner Air System**

Installation of a germicidal UV light inside the air system inhibits the growth of mold which saves energy by allowing the system to operate more efficiently. A cleaner system also requires less maintenance.



## ULTRA VIOLET AIR PURIFIERS

### Duct Mount and Germ Killing Tubes

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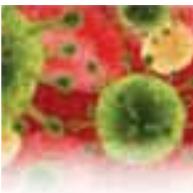
**The Duct Mount Ultra Violet Air Purifier** cleans the air by combining UVC light and activated carbon; two technologies proven to be most effective at killing germs, and removing odors by reducing chemical vapors known as volatile organic compounds (VOCs). Some of them, like formaldehyde and toluene, are known to be toxic.

**The Science of the Westinghouse Duct Mount Ultra Violet Air Purifier.** It detoxes the air with a process called photocatalytic oxidation (a technology similar to the catalytic converter on your car's exhaust). The UV light reacts with titanium dioxide infused into the carbon which effectively disintegrates the captured contaminants, leaving only harmless water vapor and CO<sub>2</sub> which are released back into the air. This process leaves the carbon cells clean so they never fill up or need to be replaced. The result is clean, odor-free air throughout the home.



#### **Westinghouse Germ Killing UV Light Tube –**

The simple and complete choice in UV light for all residential applications. Everything you need is in the tube! Just connect to a power source and install the UV light where needed. The Germ Killing UV Light Tube is one of the most popular Germicidal UV Light systems in the world because of its reliability, ease of installation, and many innovative features.



#### **Germs in the Air You Breathe**

Most people don't realize that indoor air is often far more polluted than outdoor air. Contaminants can include viruses, bacteria, mold, mildew, and allergens. Some are only annoying, others can make you sick. Because air passes repeatedly through your HVAC system (in fact many microbes like the cool dark damp interior of the system) this is the ideal place for germs to multiply and spread throughout the house.

#### ***The Solution for Indoor Air Pollution.***

*According to the EPA, indoor levels of pollutants may be 2 to 5 times - and occasionally more than 100 times - higher than outdoor pollutant levels. Indoor air pollutants have been ranked among the top five environmental risks to public health.*

***Respiratory Health.*** Air purification technology is designed to reduce the types of airborne contaminants known to contribute to indoor air related respiratory problems. Because air quality is a major factor in respiratory health, improvements to indoor air quality will enhance your quality of life.

*Scientific studies show UV light can kill 90% of microbes within 10 minutes. After 24 hours 99.9% are killed.*

# WHOLE HOUSE HUMIDIFIERS

Bypass and Power Models



**The recommended indoor relative humidity** is three to four times the humidity in an average home in winter. If you're not reaching those levels in your home, you could be exposing yourself and your family to the physical aggravations of dryness. In fact, doctors often mention dry air as one of the causes for nose, throat, and skin discomfort.



**Unhumidified heated air also dries out the wood in your home**, shrinking the wood framing around doors and windows. Gaps then occur, allowing cold air in, making your home less energy efficient. Dry air also causes wood floors and trim to separate, walls and ceilings to crack; it can harm expensive musical instruments and electronic equipment such as computers; dryness even weakens the joints of expensive furnishings.



**Westinghouse humidifiers are equipped with a manual humidistat** to control the humidifier's operation. With proper homeowner adjustment of the humidistat the Westinghouse Humidifier will provide comfort, preservation, and many other benefits of increased indoor humidification.



**Designed to work with your heating & cooling system** to make your home more comfortable by eliminating parched, dry air throughout the entire home. Delivers comforting humidity to eliminate dry nose & throat, itchy, dry skin - your skin feels smoother, while reducing static electricity.

**Westinghouse humidifiers generate moisture to protect and preserve** your home & home furnishings against the damaging shrinkage due to dryness.

You'll feel warmer in the winter resulting in lower energy-saving indoor temperatures.

## **How Dry Are You?**

*When you think of dryness, do you picture the arid, wind-whipped sands of the Sahara? Or the cracked, sun-baked earth of Death Valley? It might surprise you to know that there are places in this world that are twice as dry as those. One of the driest places on earth could be your home.*

*The relative humidity of the Sahara Desert is 25%; Death Valley is 23%. In the winter months, the average heated home can have a relative humidity as low as 13% to 16%.*

*A Westinghouse humidifier generates moisture for added comfort, better health, preservation of home & home furnishings, and savings on your monthly energy bills. Your Westinghouse dealer can recommend a whole house humidifier that best suits your home.*

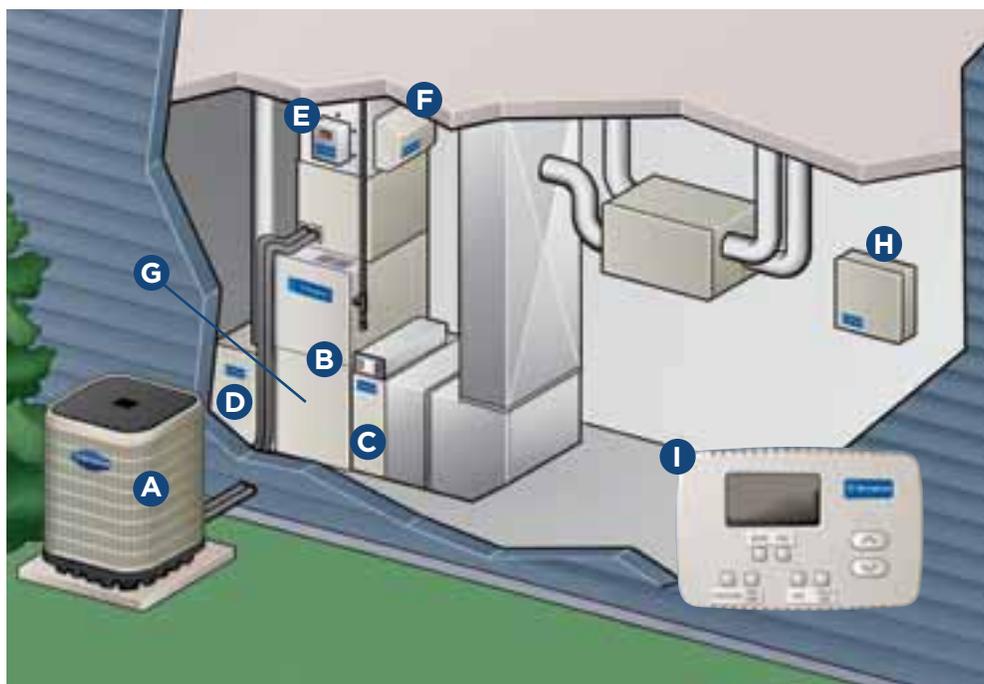




## Westinghouse Complete Comfort System

Designed to work with your heating and cooling system, Westinghouse accessories make up only part of the comfort system that affects your air quality and energy savings. Westinghouse offers a complete line of system components that can improve indoor air quality and help ensure the performance of your system. Westinghouse delivers more than just better indoor comfort. You should also feel comfortable about investing in products that will perform when you need them most.

- A** Air Conditioner or Heat Pump
- B** Furnace and/or Air Handler
- C** Electronic Air Cleaner
- D** HEPA Air Cleaner
- E** Ultra-Violet Air Purifier
- F** Humidifier
- G** Indoor Coil
- H** Zone Control Panel
- I** Programmable Thermostats



# Mold Facts

The rooms where you spend the most time could be making you sick. Allergic reactions to mold are common. They can be immediate or delayed, adversely affecting human health through three processes: 1) Allergy, 2) Infection and 3) Toxicity. Molds produce allergens, releasing potentially toxic substances into the air called mycotoxins. Most molds, fungi and yeasts produce microscopic spores that spread easily throughout the air, wafting continually.

Many people are very sensitive to molds with exposure resulting in nasal stuffiness, eye irritation, wheezing, skin irritation, shortness of breath, fever and even infection. More than 50 percent of people are sensitive to one of 10 common allergens. Some research suggests that up to 90 percent of all colds and viruses are caught indoors. Biological pollutants including molds, bacteria and virus promote poor indoor air quality.



Information taken from Centers For Disease Control, American Lung Association, American Industrial Hygiene Association, Environmental Protection Agency, Minnesota Department of Health EPA.





# Leading Warranty

When indoor air quality products (IAQ) are truly built to exacting standards of quality and durability, the manufacturer's confidence shows in its warranty.



At Westinghouse, we offer a 10 year limited warranty on all parts if the IAQ products are purchased, installed and registered with a Westinghouse heating and cooling system.



Westinghouse Ultra Violet Air Purifiers also come with a 5-year, satisfaction-guaranteed warranty.

To learn more about our product warranties, ask your Westinghouse contractor, or visit us on the web at [www.westinghousehvac.com](http://www.westinghousehvac.com) for details.



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