

Indoor Air Quality



FILL YOUR HOME WITH AIR THAT IS AS  
CLEAN AS IT IS COMFORTABLE.

BUILT TO A HIGHER STANDARD™

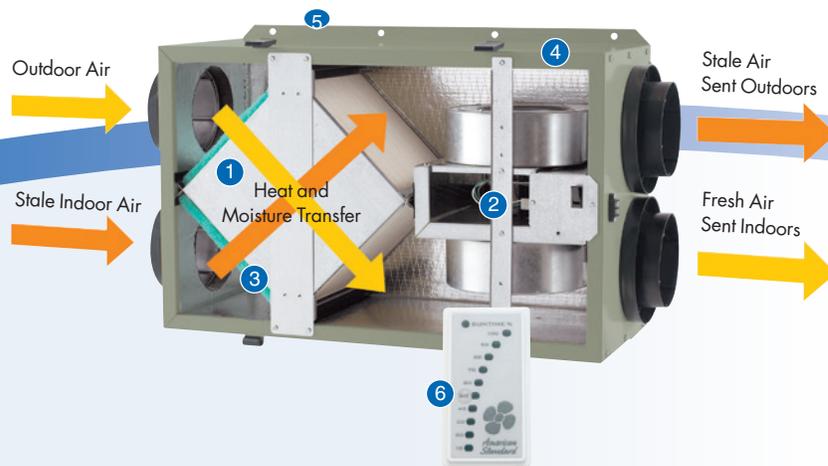
*American Standard*®

HEATING & AIR CONDITIONING

## FRESHER AIR.



The AccuExchange™ Energy Recovery Ventilator (ERV) exchanges stale, indoor air and provides heated and humidified fresh air in a more efficient and consistent manner than opening a window. In the winter, heat and moisture are transferred from the exhaust air back into the incoming fresh air. In the summer, AccuExchange removes heat and moisture from outdoor air to provide fresh, cooled, dehumidified air to your home.



### Why is American Standard AccuExchange good for your home and your family?

We believe that an indoor environment is optimized when fresh air is introduced into the home in a regular and controlled manner. Consider:

- Indoor pollutants can be five times higher than outdoor pollutants.
- 87% of homeowners are unaware that pollution inside their homes may be worse than outside.
- Children inhale 50% more air per pound of body weight than adults, so they're especially sensitive to air quality problems.
- Indoor pollution sources release gases called VOCs (Volatile Organic Compounds) into the air. They are a primary cause of indoor air quality problems in the home.

- 1 High efficiency crossflow energy transfer core**  
High-performance core recovers heat and moisture from the outgoing air during cold weather. During hot, humid weather, it pre-cools and dehumidifies incoming air.
- 2 High-performance motor**  
Engineered with permanently lubricated bearings for low maintenance and longer life.
- 3 Slide-out filter**  
Easily accessed for quick cleaning with a household vacuum cleaner.
- 4 Powder-paint cabinet**  
Sturdy, 20-gauge, metal cabinet with a scratch-resistant, high-gloss finish.
- 5 Flexible mounting**  
Installs easily in the attic, garage or basement, in virtually any position.
- 6 Adjustable control**  
Provides automatic timed ventilation, plus manual control for more ventilation if needed. Press the fan icon on the AccuExchange control to adjust runtime percentage per hour.  
  
May also be controlled with Nexia™-enabled connected controls.



## A VALUE VENTILATION OPTION WITH INTELLIGENT LOGIC

The EnviroWise™ QF1 30V inline ventilator offers a cost effective mechanical fresh air solution that controls humidity and temperature. The QF1 30V has a full ECM motor that makes installation fast and easy, with no balancing dampers required. The ECM motor allows for adjustable airflow to meet the ventilation requirements for homes up to 3500 sq. ft. The installer dials in the quantity (CFM) of fresh air needed and sets the desired limits for outside humidity and temperature, and the QF1 30V is ready. A 24V relay is included with the unit and allows the flexibility of controlling the QF1 30V from a wall mounted thermostat.



- 1 62.2 Compliant Ventilation**  
With adjustable airflow from 30 to 130 cfm to meet ventilation codes for all size homes.
- 2 MERV 8 filter**  
Included for improved indoor air quality. Optional heater available for extreme cold climates
- 3 On-board LCD "logic" controller**  
Allows for customized set-up depending on climate conditions. High / low temp and high humidity lock out options with timed sampling to ensure minimum ventilation without excessive energy use.
- 4 Full ECM Motor**  
With Intelligent Logic Controller. Quiet low speed motor means no noise objections.



Optional 24V functionality with our Nexia™ enabled thermostats allows ventilation control from your smart phone or computer.



THUMD500, THUMD300,  
THUMD200

### How relative humidity impacts your home and how an American Standard humidifier can help.

As the outside temperature drops, so does the relative humidity inside your home which means less moisture and drier air. This chart suggests appropriate indoor relative humidity settings that an American Standard humidifier can help achieve in your home, bringing you greater comfort and welcome relief from dryness.



Outdoor Temperature (°F)	Indoor Relative Humidity
+40°	45%
+30°	40%
+20°	35%
+10°	30%
0°	25%
-10°	20%
-20°	15%

Relative humidity settings are based on double-pane windows or single-pane windows with storm windows. These settings reduce the likelihood of condensation forming on the windows inside a home.

Recommended Gallons of Humidity Per Day			
Humidifier Sizing Chart (8' Ceilings)			
1000 ft²	4.3	8.6	12.7
1500 ft²	6.4	12.8	19.1
2000 ft²	8.5	17.0	25.5
2500 ft²	10.6	21.3	31.8
3000 ft²	12.7	25.4	38.1
4000 ft²	17.0	34.0	51.0
5000 ft²	21.2	42.6	63.6
Structure Tightness	Tight	Average	Loose

\*AHRI Air Conditioning, Heating, and Refrigeration Institute GPD = Gallons Per Day Guideline F 2008

A family of 4 will add 2 gallons of humidity per day through everyday activities like cooking, bathing and washing.

### How an American Standard humidifier benefits your family.

During colder months, indoor humidity is a significant contributor to your comfort. But it helps in other areas as well. The right amount of humidity offers:

- Potential energy savings because humidified air feels warmer, so you can set your thermostat lower during heating season.
- Reduced static electricity.
- Less shrinkage of woodwork around doors, windows, and floors.



### Whole-Home Evaporative Humidifiers

	Gold		Silver
	Power	Large Bypass	Small Bypass
1 Flow-through design	•	•	•
2 Controlled moisture distribution	•	•	•
3 Built-in fan	•		
4 Replaceable pad	•	•	•
5 Durable, rust-resistant housing	•	•	•
6 Automatic control	•	•	
7 Bypass damper		•	•
Outdoor sensor option	•	•	
Manual control			•
Evaporative capacity (gallons per day)	18	16.8	12
Warranty protection	<ul style="list-style-type: none"> <li>• 5-year limited warranty on all parts</li> <li>• Optional extended warranty (Ask your dealer for details.)</li> </ul>		



EHUMD800, EHUMD800LC\*  
\*120V application for low conductivity water

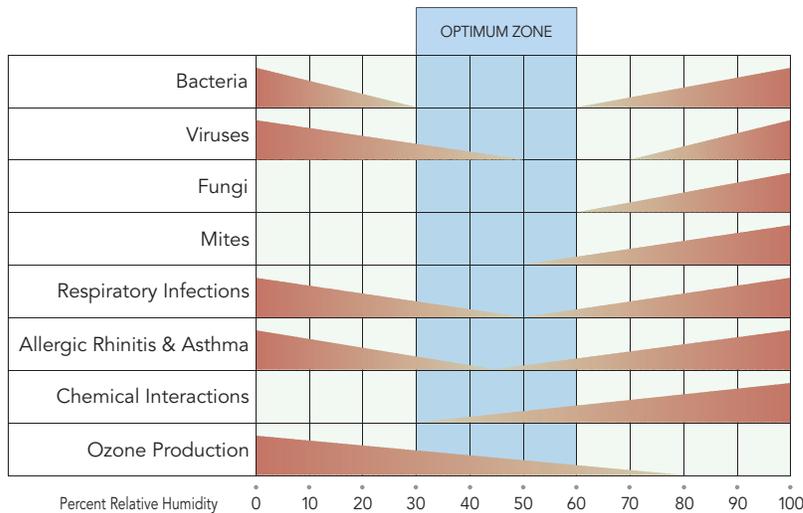


Features include fully insulated door, easy to open latches, inside cabinet insulation to prevent condensation on filter and a low profile painted cabinet.

## Whole-Home Steam Humidifiers

- 1 Six different capacities in one unit**  
Satisfies every application from 11.5 gallons per day to 34.6 gallons per day.
  - 2 Humidity "on demand"**  
Uses your current system blower to distribute humidified air throughout your home without a call for heating from your furnace or heat pump.
  - 3 Precise relative humidity percentage settings**  
Choose your settings based on your needs and outdoor conditions. Works with Nexia™-enabled connected controls without the need for additional controls.
  - 4 Easy mounting flexibility**  
Mounts to your duct work or can be remotely mounted.
  - 5 Electrode type steam canister**  
Fast, easy, low cost maintenance.\*
  - 6 Automatic shut down**  
Drains then shuts down after 72 hours of inactivity to eliminate standing water.
  - 7 All inclusive package**  
Nothing else to purchase. Includes manual humidistat and blower relay. Nexia™ control is optional.
- Five-year standard warranty**  
Includes all functional Parts. Extended Warranty available.

\* Replace once a year.



Source: "Criteria for Human Exposure to Humidity in Occupied Buildings"-Sterling, et al and other ASHRAE Studies.

## ASHRAE Comfort Window

Optimum relative humidity range for human comfort and health

(A decrease in bar height indicates a decrease in effect for each of the items)

Having the optimum amount of humidity in your indoor air can impact your health. Either too much or too little can lead to the rise of unhealthy airborne particulates.

# WELCOME TO CLEANER AND MORE ENERGY EFFICIENT AIR.

Today's homes are built to be more energy efficient than ever. The EPA says indoor air can be 5x as polluted as the outdoor air. Trane Media Filters help keep your air free from potentially harmful contaminants and protects your equipment investment by keeping motors and coils clean from energy robbing dust and particulates.

## QuikBox™

Features include fully insulated door, easy to open latches, inside cabinet insulation to prevent condensation on filter and a low profile painted cabinet.

- Up to 25 times more effective than a disposable 1" filter
- Easily replaceable
- Filters 100% of the air passing without reducing airflow efficiency
- Great for allergies and pet dander
- Quikbox™ media filters fit all previous Perfect Fit Cabinets.

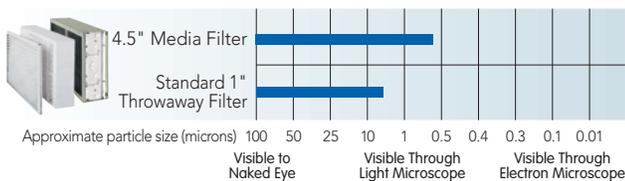


## High efficiency homes can bring high levels of pollutants.

While today's homes are more tightly sealed for better efficiency, they also seal in humidity and indoor pollutants. Those pollutants are in the indoor air your family breathes and they can contribute to respiratory conditions such as colds, allergies, and asthma.

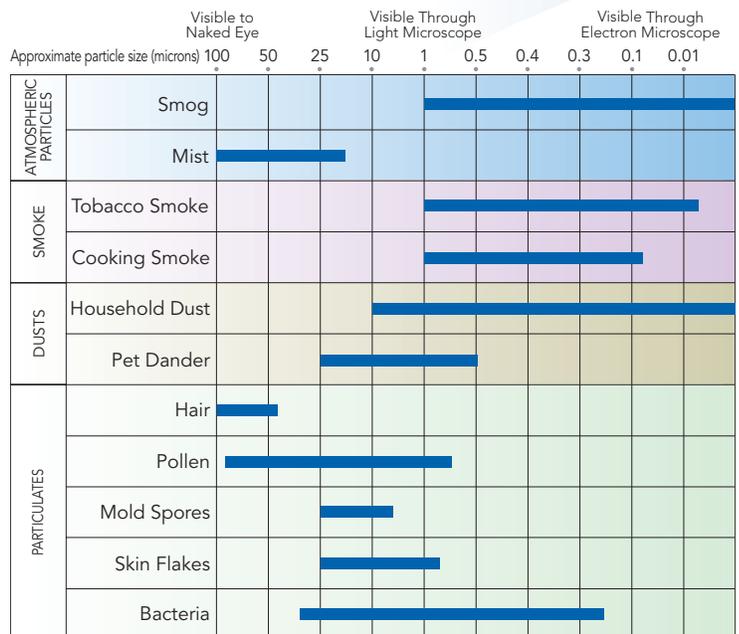
- Up to 72 trillion allergens find their way into your home every day.
- Most homes naturally generate about 40 pounds of dust per year.
- One ounce of dust can hold about 30,000 dust mites.

## Effective Operating Range



Using a 5" wide media filter that is simple to replace, the Perfect Fit air cleaner filters 100% of the air and cleans without impeding efficiency or airflow.

## Common Household Contaminants



An American Standard Perfect Fit™ Air Cleaner can reduce the number of these common contaminants, keeping them from circulating in your home and in your family's lungs.

# AMERICAN STANDARD "HEALTHIER HOME" IAQ PRODUCTS TAKE COMFORT TO AN EVEN HIGHER LEVEL.

Ready for the cleanest possible indoor air? The AccuClean™ Whole-Home Air Filtration System removes up to an astounding 99.98% of allergens from filtered air, capturing particles down to .1 micron. In fact, AccuClean is 100 times more effective than a standard 1" throwaway filter or ionic-type room appliance, so you know you're getting a home air filtration system like no other. Ask your independent American Standard Heating & Air Conditioning dealer for details.



- Removes up to an incredible 99.98% of allergens from filtered air.
- Traps particles as small as .1 micron in size.
- Up to 100 times more effective than a standard 1" filter.
- Can reduce your need to dust by up to 50%.
- Performance verified by leading third party experts in the field of environmental and health sciences.
- 2015 tests performed by an independent 3rd party demonstrated that AccuClean removed 99.9% of Influenza A virus from an inside space and duct in a 30 min period.\*



- 1 Sizing options**  
Available in seven different cabinets sizes to match your American Standard system.
- 2 Pre-Filter**  
Captures larger particles and extends the collection cell cleaning interval.
- 3 Power Door**  
Provides easy access for cleaning. The front panel displays power indicator and filter status lights. Safety interlocks power down the system if the door is opened while AccuClean™ is on.
- 4 Painted Sheet Metal Cabinet**  
Heavy 18-gauge steel provides attractive and durable protection for electronics and filter components.
- 5 Reusable Collection Cells**  
Precisely engineered to capture particles down to .1 micron, while still remaining easy to clean. Simply vacuum once or twice a year to make them like new.
- 6 Field Charger**  
Charges incoming particles so they adhere to the collection cells. This patented process is what allows AccuClean to remove up to 99.98% of particles down to .1 micron that pass through it.



The Asthma and Allergy Foundation of America (AAFA) and Allergy Standards Limited (ASL) has announced that the AccuClean™ whole home air cleaner from American Standard, has earned the **asthma & allergy friendly®** Certification. The asthma & allergy friendly Certification Program, an independent program administered in the United States by AAFA with their partner ASL, helps consumers identify products more suitable for people with asthma and allergies. To receive the certification, the American Standard AccuClean was independently tested and required to meet benchmark standards as prescribed by ASL and AAFA based on industry leading medical and scientific research in health issues and indoor air pollution.

\* As reported by airmid health group Ltd. in ASR document ASCR092142 dated 12/4/2015

# ENVIOWISE 70V DRY™ VENTILATING DEHUMIDIFIER IS A UNIQUE SOLUTION FOR HOMES.

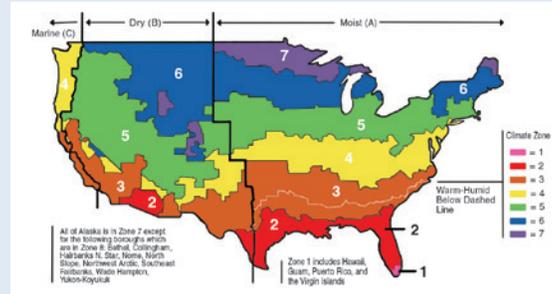
The Envirowise 70V Dry Ventilating Dehumidifier may be ducted with 100% ventilation air, mixed with indoor air, or used as a ducted or stand-alone dehumidifier. This ventilation compliant ventilator is sized to ventilate up to a 3,000 sq.ft. homes and will remove excess moisture from the outside air before it enters the home. This improves indoor comfort without wasting energy by using the HVAC system to overcool the space.



The Envirowise 70V can also be used as a whole home dehumidifier without ventilation. With a compact unit designed to fit in tight low-clearance applications and sized to handle up to 1,800 sq. ft., it is ideal for condos or apartment applications. The unit can be ducted into the HVAC system, ducted separately using central grilles, or used in a freestanding application such as basements or crawl spaces. The on-board control enables the unit to operate by just plugging it in to a 120V outlet and providing an adequate drain.

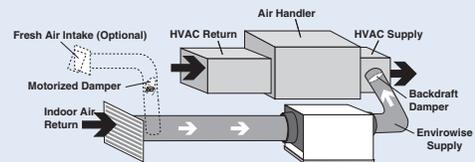


Optional dedicated D30 control or use one of our Nexia™ enabled Thermostats to control ventilation or dehumidification.

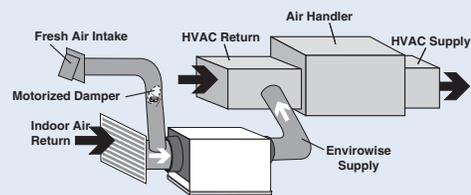


- Controlled Mechanical Ventilation for humid climates, especially Climate Zones 1, 2 and 3.
- Automatically turns on compressor when entering air is above enthalpy set-point based on climate setting using on-board sensor.
- Up to 70 pints / per day for dehumidification or up to 30 grains of moisture / lb. of outside air for ventilation.

### Attic or Conditioned Mechanical Room Installation - Dedicated Envirowise Return to HVAC Supply



### Indirect Method – Return Mix



**American Standard®**  
HEATING & AIR CONDITIONING

[americanstandardair.com](http://americanstandardair.com)

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We Encourage  
Professionalism



Through Technician  
Certification by NATE

Since American Standard Heating & Air Conditioning has a policy of continuous product improvement, it reserves the right to change specifications and design without notice. Read important energy cost and efficiency information available from your dealer.

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