

Aprilaire[®]

Dry Air Solutions

Whole-Home Humidifiers



Trusted Solutions for a Healthy Home[®]

HOUSEHOLD PROBLEM:

Dry indoor air is **more** than just an inconvenience: it's a threat to the health and comfort of your family —as well as your budget.

For more information about the health, comfort and structural problems caused by dry indoor air, visit [aprilaire.com](https://www.aprilaire.com)



Is the air in your home under control?

Dry air can be a problem in almost any home, but it is most common in semi-arid climates and those that require forced-air heating during the cooler months of the year.

During the winter months, the combination of cool, outdoor air and forced furnace heat can cause your home to be drier than the Sahara Desert.

Dry air can also cause structural damage to your home and possessions, the result of which can be costly. It can cause walls, woodwork and hardwood floors to crack. And those annoying static shocks? They can cause irreparable damage to your electronic equipment.

Air that's not properly humidified has serious implications:

- + Low relative humidity makes you more susceptible to catching a cold* and flu viruses have been linked to speedier progression and transmission in dry air.**
- + The respiratory infections caused by cold and flu viruses are a leading trigger of asthma in children.†
- + Static shock and dry skin, itchy eyes, and a sore throat can all be traced back to air that's not properly humidified.

There's also the impact dry air has on your energy bill. Dry air makes you feel colder at normal temperatures, causing you to overheat your home.

According to the Environmental Protection Agency, for every degree you heat your house, you add four percent to your energy bill.‡

Dry indoor air is more than just an inconvenience, it's a threat to your family's health, comfort and budget. Thankfully, with Aprilaire®, there's something you can do to control it.



*The respiratory infections caused by cold and flu viruses are a leading trigger of **asthma** in children.†*

SOURCES: * PLOSone, High Humidity Leads to Loss of Infectious Influenza Virus from Simulated Coughs.
** Department of Microbiology, Mount Sinai School of Medicine, Influenza Virus Transmission Is Dependent on Relative Humidity and Temperature; 2007, New York, New York, USA.
† Asthma and Allergy Foundation of America, Asthma Overview.
‡ Environmental Protection Agency, Region 7, Home Helps.

Healthier, comfortable air is within reach with Aprilaire.

While dry air can make your home both uncomfortable and unhealthy, there's no need for you and your family to suffer. Aprilaire whole-home humidifiers can help. They are installed as part of your home's heating and cooling system and automatically deliver the perfect amount of humidified air, throughout every room of your home.

An Aprilaire Whole-Home Humidifier Can Help

CONTROL HEALTH

Maintaining the right humidity level throughout your home keeps your nasal passages and airways healthy and reduces incidence of cold and flu. According to Dr. Joseph Lubart in an article in the New York State Journal of Medicine, regulation of humidity "would appear to be the most important prevention measure" from cold virus infection during cold months when the home's furnace is running.

PROTECT YOUR HOME

You've invested a lot into your home—protect it. An Aprilaire humidifier can help keep your possessions safe from dry air. Furniture, hardwood floors, musical instruments and electronics are better protected when your home is properly humidified.

INCREASE COMFORT AND ENERGY EFFICIENCY

Optimal humidity also helps you stay warmer at cooler temperatures. That means you can lower your thermostat and save energy, thereby lowering your heating costs.



Your dealer will recommend the ideal model and placement for your home.

Perfectly humidified air is within your control.

Aprilaire whole-home humidifiers come with many distinct advantages. One is that they are installed as part of your heating and cooling system.

That means they deliver the perfect amount of humidity throughout your entire home without multiple noisy, unsightly and difficult-to-maintain portable units.

Another advantage is that Aprilaire whole-home humidifiers deliver the perfect amount of humidity, 24 hours a day, seven days a week. They accurately measure the outdoor temperature and indoor humidity levels to provide the ideal amount of indoor relative humidity.

Automatic digital control

The Aprilaire Automatic Digital Control mounts on your heating system and features Auto-Trac® to automatically deliver the optimal amount of humidity. It features a convenient display and indicators for relative humidity levels, operation status and service needs. For more precise humidity control and preservation, we suggest the wall-mounted digital display humidistat.



Automatic Digital Control mounted on a heating system

Wi-Fi control of indoor air quality

Aprilaire Wi-Fi thermostats with IAQ control provide the most convenient and accurate control of humidity and temperature. The thermostat works with the Auto-Trac® feature to automatically deliver optimal humidity. Automatic humidity control is integrated into the thermostat and you can easily control temperature and humidity levels from anywhere with the app on your mobile device. The app also allows you to control other installed Aprilaire IAQ products for optimal fresh air ventilation and air purity and keeps you up-to-date about changing climate conditions in your home.



Aprilaire offers a full line of Wi-Fi thermostats for convenient, efficient control of temperature, humidity and all indoor air quality accessories.



Learn more about the benefits of whole-home humidification [aprilaire.com](https://www.aprilaire.com)



**Professionally trained
Aprilaire contractors deliver
healthy home solutions for
your home and family.**

Aprilaire is the indoor air quality leader in whole-home humidification solutions. In 1954, we introduced the very first effective whole-home residential humidification system.

Since then, Aprilaire humidifiers have been often imitated, but never duplicated. Our revolutionary technology and innovative solutions continue to set the standard for precision whole-home humidification.

Performance & peace of mind

Our humidification solutions are engineered and manufactured in the United States. Once installed by your local heating and cooling specialist, they require little maintenance or attention.

*The leaders in
healthy home solutions
since 1954.*

A humidification solution for every home.

Your Aprilaire dealer will recommend which one is right for you.

| | Aprilaire Humidifiers | Model No. | Type of Humidification | Unit Size Width x Height x Depth | Plenum Opening | Capacity GPD = Gallons Per Day | Electrical Data |
|------------|-----------------------|-------------------------|--|--|---------------------------|--------------------------------------|--|
| 800 Series | | 800†† 801*** | Steam Humidifier For applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates). | 10 1/8" x 20 7/8" x 7 1/8" | - | 11.5 GPD 16.0 GPD 20.5 GPD | 120V 60Hz 11.5 AMP 120V 60Hz 16 AMP 208V 60Hz 11.5 AMP |
| | | 865 866*** | Ductless Steam Humidification System Includes the Model 800, Fan Pack, Model 65 Control and Model 4028 Drain Trap. For homes without forced-air heating systems. | Fan Pack: 14" x 6 9/16" x 3 1/16" Finished Grille: 16 13/16" x 9" x 1 1/16" | - | 30.0 GPD 23.3 GPD 34.6 GPD | 208V 60Hz 16 AMP 240V 60Hz 11.5 AMP 240V 60Hz 16 AMP |
| 700 Series | | 700* 700M** | Powered Unit Built-in fan that pulls heated air directly from the furnace. | 15 29/32" x 18" x 10 11/32" | W: 14 3/4" H: 14 5/16" | 18 GPD | 120V 60Hz 0.8 AMP |
| 600 Series | | 600* 600M** | Bypass Unit Uses the furnace blower to move air through a Water Panel!† | 15 3/8" x 15 3/4" x 10 1/4" 6" dia. round opening | W: 10" H: 12 3/4" | 17 GPD | 24V 60Hz 0.5 AMP |
| 500 Series | | 500* 500M** | Bypass Unit Designed for smaller homes. | 15 5/8" x 13" x 10 1/4" 6" dia. round opening | W: 9 1/2" H: 9 1/2" | 12 GPD | 24V 60Hz 0.5 AMP |
| 400 Series | | 400* 400M** | Bypass Unit Uses 100% of water and evaporative technology that eliminates the need for a drain. Conserves Water. | 15 5/8" x 15 3/4" x 10 1/4"* 6" dia. round opening See note on heat pumps† | W: 10" H: 12 3/4" | 17 GPD | 24V 60Hz 0.5 AMP |
| 300 Series | | 360 350 | Self-contained Designed for homes with radiators or baseboard heat. | Model 360: 13 3/4" x 12 3/4" x 12 1/2" Model 350: 13 3/4" x 12 3/4" x 15" | - | 12 GPD | Model 360: 120V 60Hz 0.7 AMP Model 350: 120V 60Hz 0.9 AMP |



| HUMIDIFIER SIZING GUIDELINES GPD Needed Per Square Foot† Based on Building Structure Tightness | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|
| Structure Tightness (8 Ft Ceilings) | 1000 Ft² | 1500 Ft² | 2000 Ft² | 2500 Ft² | 3000 Ft² | 4000 Ft² | 5000 Ft² |
| Tight | 4.3 GPD | 6.4 GPD | 8.5 GPD | 10.6 GPD | 12.7 GPD | 17 GPD | 21.2 GPD |
| Average | 8.6 GPD | 12.8 GPD | 17 GPD | 21.3 GPD | 25.4 GPD | 34 GPD | 42.6 GPD |
| Loose | 12.7 GPD | 19.1 GPD | 25.5 GPD | 31.8 GPD | 38.1 GPD | 51 GPD | 63.6 GPD |

*Automatic Digital Control with Auto-Trac® (shown)
 **Manual Control - For those rare occurrences where an automatic control is not practical, Aprilaire digital control can be installed in manual mode while still delivering the accuracy and information you need for optimal performance.
 ***801 & 866 Modulating Steam Humidifier - For precise RH control. Controls are sold separately.
 † Heat Pumps - Model 400 can be installed in heat pump applications. However, due to the fact that heat pumps deliver lower temperature air to the home than gas furnaces, evaporation will be approximately 60% of rated capacity. (With other Aprilaire models, hot water can be used instead of cold to maximize evaporation. However, due to the nature of the wicking water panel in the Model 400 hot water provides less benefit.) As such, your dealer will need to take the size and age of your home into consideration to ensure the Model 400 will provide satisfactory comfort and protection through adequate humidification.
 ††Model 800LC available for low conductive water 75-300uS/cm and 120VAC applications.
 †AHRI Air Conditioning, Heating, and Refrigeration Institute GPD = Gallons Per Day Guideline F A family of 4 will add 2 gallons of humidity per day through everyday activities like breathing, cooking, bathing and washing. Evaporative capacities assume blower is active 100% of the time, plenum temperature is at 120° F and water is cold.
 Bypass Humidifiers - Can be installed on the supply or return plenum.
 Water Usage Rate - Models 350, 360 and 700 are 6 gph (gph=gallons per hour); Models 500 and 600 are 3 gph; Model 400 is 0.7 gph; Model 800 is 0.6 to 1.8 gph depending on voltage, amp draw and water quality.

HEALTH | COMFORT | PRESERVATION | ENERGY SAVINGS

*Delivering trusted solutions
to homes and families like
yours since 1954.*

To homeowners who do more for their families, Aprilaire is your trusted source for total Indoor Air Quality solutions that can help improve your family's health, make your home more comfortable and energy efficient while protecting your home assets.

For more information about the Aprilaire family of healthy home solutions, visit

 [aprilaire.com](https://www.aprilaire.com)



HEALTHY HOME SOLUTIONS

- + Humidification
- + Dehumidification
- + Air Purification
- + Temperature Control
- + Ventilation

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