

*Aprilaire*<sup>®</sup>

# Control Dry Air



*Enjoy year-round  
comfort with  
whole-home  
humidifiers from  
Aprilaire*

Is the dryness of your home's air 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. In fact, 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.

If you experience dry air in your home, it's more than just a nuisance. Air that's not properly humidified can have serious health and comfort implications:

- Low relative humidity can make 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.† Plus, cold, dry air on its own can aggravate asthma.
- Static shock and dry, itchy skin, eyes and throat can all be traced back to air that's not properly humidified.

But that's not all. Dry air can cause structural damage to your home and possessions, the result of which can be quite 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.

Then, there's the impact that dry air can have on your energy bill. Dry air can actually make 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 the health and comfort of your family—as well as your budget. Thankfully, with Aprilaire, there's something you can do to control it.

#### 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.*



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

# Healthier, more comfortable air is within your reach.

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, not just to one room, but throughout every room of your home.

An Aprilaire whole-home humidifier can help you:

## Control health

Maintaining the right humidity level throughout your home not only helps keep your nasal passages and airways healthy, it helps reduce colds and the flu. Even the common cold can be controlled with proper humidity. According to Dr. Joseph Lubart in an article in the *New York State Journal of Medicine*, "The most important prevention measure would appear to be proper regulation of the humidity, especially during the heating season with its distressing drying of the indoor air and the creation of an environment favorable to the cold bug." Aprilaire humidifiers monitor indoor relative humidity to make sure the air in your home is unwelcoming to viruses and other unhealthy inhabitants.

## Protect your home

You've invested a lot into your home's features and contents. An Aprilaire humidifier can help keep your possessions protected. Furniture, hardwood floors, musical instruments and electronics are all safer when your home is properly humidified.

## Increase comfort and energy efficiency

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





## Aprilaire— delivering improved comfort to your home and family.

Aprilaire is the industry leader in whole-home humidification solutions. In 1953, 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 and 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.

With Aprilaire, both you and your family will feel good inside.

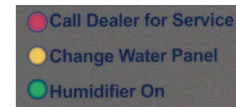
*Learn more about the benefits of whole-home humidification at [aprilair.com](http://aprilair.com).*

# Experience the comfort of perfectly humidified air.

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 perfect humidification throughout your entire home without having multiple noisy, unsightly and difficult-to-maintain portable units.

Another advantage is that Aprilaire whole-home humidifiers deliver the absolute perfect amount of humidity, 24 hours a day, seven days a week. You don't even have to think about it. The technology does it for you. It accurately measures the outdoor temperature and indoor humidity levels to provide the ideal amount of indoor relative humidity. You'll see that it's working with the Aprilaire control solution that works best for you, either our *Automatic Digital Humidifier Control* or our *Home Comfort Control*™.



## Automatic Digital Control

The Aprilaire Automatic Digital Control mounts on your heating system to automatically deliver the optimal amount of humidity. It features a convenient display and indicators to let you know relative humidity (RH) levels, operation status and any service needs.



## Wi-Fi Control of Indoor Air Quality

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

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 integrated into the thermostat, and with the app you can easily control temperature and humidity levels anywhere from your mobile device. The app also allows you to control other installed Aprilaire IAQ products for optimum fresh air ventilation and air purity and keeps you up-to-date about changing climate conditions in your home.your comfort.


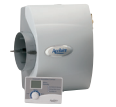







# A humidification solution for every home.

Your Aprilaire Comfort Advisor will recommend which one is right for you.



## Aprilaire Humidifier Specifications

	A. Unit Size (inches) B. Plenum Opening (inches)	Capacity gpd = gallons per day	Electrical Data
 <p><b>Model 700<sup>®</sup>/700M<sup>™</sup></b> Powered Unit – Built-in fan that pulls heated air directly from the furnace.</p>	A. 15-29/32"W x 18"H x 10-11/32"D B. 14-3/4"W x 14-5/16"H	18 gpd	120V-60Hz 0.8 AMP
 <p><b>Model 600K<sup>®</sup>/600MK<sup>2</sup></b> Bypass Unit – Uses the furnace blower to move air through a Water Panel.<sup>®</sup></p>	A. 15-3/8"W x 15-3/4"H x 10-1/4"D 6" dia. round opening B. 10"W x 12-3/4"H	17 gpd	24V-60Hz 0.5 AMP
 <p><b>Model 400K<sup>®</sup>/400MK<sup>2</sup></b> Bypass Unit – Uses 100% of water and evaporative technology that eliminates the need for a drain.</p> 	A. 15-3/8"W x 15-3/4"H x 10-1/4"D 6" dia. round opening B. 10"W x 12-3/4"H	17 gpd	24V-60Hz 0.5 AMP
<p><small><sup>^</sup>NOTE: 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.</small></p>			
 <p><b>Model 500K<sup>®</sup>/500MK<sup>2</sup></b> Bypass Unit – Designed for smaller homes.</p>	A. 15-5/8"W x 13"H x 10-1/4"D 6" dia. round opening B. 9-1/2"W x 9-1/2"H	12 gpd	24V-60Hz 0.5 AMP
 <p><b>Model 800/801<sup>***</sup></b> Steam Humidifier – For applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates, non-forced air heating source).</p>	Model 800: A. 10-1/8"W x 20-7/8"H x 7-1/8"D B. N/A	11.5 gpd  16.0 gpd  20.5 gpd	120V-60Hz 11.5 AMP  120V-60Hz 16 AMP  208V-60Hz 11.5 AMP
 <p><b>Model 865/866 Ductless<sup>***</sup></b> Ductless Humidification System – Includes the Model 800, Model 850 Fan Pack, Model 65 Control and Model 4028 Drain Trap.</p>	Fan Pack: A. 14"W x 6-29/32"H x 3-15/16"D Finished Grille 16-3/16"W x 9"H x 1-3/32"D B. N/A	30.0 gpd  23.3 gpd  34.6 gpd	208V-60Hz 16 AMP  240V-60Hz 11.5 AMP  240V-60Hz 16 AMP

\* Automatic Digital Control with Auto-Trac<sup>®</sup> (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 optimum performance.

\*\*\* 801 and 866 Modulating Steam Humidifier for precise RH control. Controls are sold separately.

**NOTES:**

Evaporative capacities assume blower is active 100% of the time, plenum temperature is at 120°F and water is cold.

Warranty – All Aprilaire humidifier parts are warranted for five (5) years from date of installation.

Heat Pumps – Plumbing the humidifier to hot water is recommended on all heat pump installations or if it is installed to operate independently of a call for heat. (See <sup>^</sup>NOTE for Model 400)

Bypass humidifiers can be installed on the supply or return plenum.

Water usage rate – (gph=gallons per hour) Models 700, 350, and 360 is 6 gph; Models 500 and 600 is 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.

### Humidifier Sizing Chart (8' Ceilings)

Structure Tightness	1000 ft <sup>2</sup>	1500 ft <sup>2</sup>	2000 ft <sup>2</sup>	2500 ft <sup>2</sup>	3000 ft <sup>2</sup>	4000 ft <sup>2</sup>	5000 ft <sup>2</sup>
<b>Humidity needed (GPD per AHRI)<sup>***</sup> Guideline F</b>							
<b>Tight</b>	4.3	6.4	8.5	10.6	12.7	17	21.2
<b>Average</b>	8.6	12.8	17	21.3	25.4	34	42.6
<b>Loose</b>	12.7	19.1	25.5	31.8	38.1	51	63.6

\*\*\* 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.

# Delivering comfort to homes and families like yours for more than 50 years.

Aprilaire has a full range of indoor air quality solutions that work together to make your home more healthy, comfortable and energy efficient. From whole-home air cleaners and humidity control to ventilation and zoned temperature solutions, we can help you maintain an optimum indoor environment for your home and family.

Ask your Aprilaire comfort consultant about our full range of indoor air quality solutions.

## Aprilaire®

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For more information about the Aprilaire family of whole-home comfort solutions, visit [www.aprilaire.com](http://www.aprilaire.com).



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