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%.

COMPUTER-EQUIPPED 50% MORE MOISTURE

A PART OF THE APRILAIRE® INDOOR AIR COMFORT SYSTEM
THE APRILAIRE ADVANTAGE

Since 1954, millions of homeowners have trusted Aprilaire® humidifiers more than any other brand. Aprilaire delivers the many benefits of proper humidification with a minimum of maintenance. You feel warmer in the winter. You are more comfortable, your skin feels smoother. And there is no better way to protect and preserve your home and furnishings than with an Aprilaire humidifier. Even musical instruments and plants benefit.

HOW DRY ARE YOU?

When you think of dryness, do you picture the arid, wind-whipped sands of the Sahara? 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. And, it's this "desert dryness" that makes you feel uncomfortable, robbing moisture from your home, your furnishings, even your skin.

Relative humidity is the percentage of moisture in the air compared to its maximum capability to hold moisture under the same conditions. Seventy degree air can hold more than 12 times as much moisture as 10 degree air. Outside air at 10 degrees and 70% relative humidity when heated to a comfortable temperature in your home has a relative humidity of just 7%. Even with the addition of moisture produced by normal household activities such as cooking, laundry, and showers, you will seldom achieve comfortable indoor humidity levels without a whole house humidifier.

HUMIDIFY FOR COMFORT

The recommended indoor relative humidity is three to four times the humidity in an average North American home in winter. If you're not reaching these 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.

HUMIDITY, PURE AND NATURAL

Because Aprilaire distributes moisture as a pure water vapor, there are no water droplets or mist that can carry impurities, like minerals or bacteria. In other humidifiers, minerals can build up in the unit and cause malfunction, requiring costly service. Even worse, these impurities can be distributed throughout your home. Aprilaire's safe, flow-through evaporative design ensures that these harmful elements are either deposited on the replaceable Water Panel® evaporator or flushed down the drain. This eliminates the problems that can be caused by stagnant water in units not equipped with a drain.

A NEW STANDARD

Aprilaire humidifiers have always set the standard in humidification. And now the standard has been raised again, with the introduction of the revolutionary Aprilaire Automatic Humidifier. Computer-equipped, it automatically adjusts to ensure the optimum level of indoor humidification. As the world's first completely automatic humidifier, it features an exclusive, automated "no-touch" computer operation, which eliminates the need for constant manual adjustments. Only an Aprilaire Automatic Humidifier delivers up to 50% more moisture than other humidifiers for improved comfort, well-being, preservation, and energy savings. And that's what you buy a humidifier for. Tests also show that the Aprilaire Automatic Humidifier is three times more accurate and four times more reliable than other humidifiers.
HOW APRILAIRE WORKS

Aprilaire uses nature's own process – the introduction of humidity through safe, pure water vapor – to add moisture to your dry air. When your home's humidity falls below the optimum level, Aprilaire goes to work. Water supplied to the distribution tray flows evenly across the patented Water Panel® evaporator. Thirsty, dry air is forced through the wetted panel and the newly humidified air is distributed throughout your home.

APRILAIRE® Bypass Humidifier Operation

The humidifier can be mounted on either the supply or return plenum. When the furnace operates, negative air pressure is created that draws air from the supply side of the furnace to the return side. This pressure draws the heated air past the moisture-treated Water Panel® evaporator, providing comforting, humidified air throughout the home.

ONLY THE APRILAIRE AUTOMATIC HUMIDIFIER OFFERS THIS COMBINATION OF BENEFITS

- Eliminates parched, dry air throughout the entire home automatically.
- Generates up to 50% more moisture for improved comfort, well being, preservation, and energy savings.
- Exclusive automated “no touch” computer operation eliminates the need to constantly make manual adjustments.
- Senses changes in relative humidity instantaneously.
- Delivers more of what you buy a humidifier for – comfort, convenience, control, and preservation.

APRILAIRE® Power Humidifier Operation

The humidifier fan draws dry, heated air from the furnace duct through the Water Panel® evaporator. The moisture-treated air then wraps around both sides of the Water Panel and returns through the side louvers into the furnace’s air flow, providing comforting, humidified air to the entire home.

AN APRILAIRE AUTOMATIC HUMIDIFIER WILL IMPROVE YOUR HOME’S ENVIRONMENT

Your Aprilaire humidifier will be professionally selected and installed by your heating and air conditioning contractor. The model your contractor recommends will be based on such factors as your home’s size, construction, and type of heating system.

APRILAIRE AUTOMATICALLY DELIVERS 50% MORE.

- COMFORT
  Aprilaire will deliver up to 50% MORE comforting humidity to eliminate dry nose and throat and itchy skin, while reducing static electricity.

- WELL BEING
  Up to 50% MORE humidity ensures optimum humidity levels that can help reduce the chance of upper-respiratory problems caused by dry air. Ask your doctor.

- PRESERVATION
  Your home and furnishings are protected with up to 50% MORE moisture, which saves them from damaging shrinkage due to dryness.

- ENERGY SAVINGS
  50% MORE moisture means you’ll feel warmer with lower, energy-saving indoor temperatures.
21st CENTURY TECHNOLOGY

Until now, you had to do the thinking for your humidifier, checking the outside temperature and making adjustments as the temperature changed. But even with these adjustments homeowners often experienced problems trying to maintain a comfortable 35-50% relative humidity level. That is because not even the most conscientious person will adjust a humidifier more than once or twice a day. Too much indoor moisture will cause condensation (excess moisture) on windows. Conversely, too little moisture results in such irritations as static “shocks” or dry skin. Therefore a manual humidifier is not the best solution.

Now, 21st Century technology and Aprilaire product innovation have produced the unprecedented Aprilaire Automatic Humidifier. It provides the perfect solution, using the speed, accuracy, and reliability of a computer. This humidifier measures and responds to outdoor temperature changes – the only way to achieve maximum indoor humidity levels while preventing window condensation and damage to your home. It instantly adjusts to provide optimum indoor humidity levels – all automatically.

Chart I shows the optimum or desired indoor relative humidity level (yellow line) compared to the humidity produced by a manually controlled humidifier (red line) set at 35%. The optimum level is produced only where the two lines intersect; therefore most of the time the indoor air is either over- or under-humidified.

Chart II shows the optimum indoor relative humidity level (yellow line) compared to the humidity level produced by an Aprilaire Automatic Humidifier (blue line). The lines mirror each other, showing that Aprilaire accomplishes exactly what it was designed to do by automatically producing the optimum level of humidity at all times throughout the heating season, based on outdoor temperature changes.

The Aprilaire Automatic Humidifier can measure indoor humidity and outdoor temperature changes more than 86,000 times per day. It senses changes in relative humidity instantaneously, a dramatic improvement over manual humidifier delays of at least 1/4 hour. Solid state electronics assure total humidification system reliability and precision, which means control that is four times more reliable than other humidifiers. Select the Aprilaire Automatic Humidifier, and enjoy comfort through 21st Century technology.
APRILAIRE AUTOMATIC POWER HUMIDIFIER
The Aprilaire Automatic Model 768 power humidifier is designed with ease of service in mind. The 768 provides truly automatic humidity regulation after the initial setting. The 768 has an evaporation capacity of 0.75 gph at 120°F plenum temperature. A motor and fan accomplish the air movement necessary for high capacity evaporation. Uniform, accurately controlled humidity levels are maintained automatically.

APRILAIRE AUTOMATIC BYPASS HUMIDIFIERS
Aprilaire Automatic Models 568, 558, and 448 bypass humidifiers are fully automatic and offer the flexibility of easy installation on either the warm-air supply or cold-air return of any forced air furnace. The humidified air mixes with the return air from the house and is forced back into the living area. Model 448 has a re-circulating system for use where a drain is not available.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>CAPACITY</th>
<th>SQ. FT. AREA*</th>
<th>WATER FEED RATE</th>
<th>ELECTRICAL DATA</th>
<th>ALSO INCLUDED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>gph 120°F plenum temp.</td>
<td></td>
<td>A. UNIT SIZE (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER HUMIDIFIER</td>
<td></td>
<td></td>
<td>A. 15 3/4 x 15 1/2 x 10 1/2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Model 768</td>
<td>0.75</td>
<td>1,050</td>
<td>B. 14 3/4 x 14 3/4</td>
<td>120V-60 Hz-0.8 AMP</td>
<td>Saddle Valve</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. PLENUM OPENING (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYPASS HUMIDIFIER</td>
<td></td>
<td></td>
<td>A. 13 3/4 x 15 1/2 x 9 5/8</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Model 568</td>
<td>0.70</td>
<td>1,000</td>
<td>B. 9 3/4 x 12 1/8</td>
<td>24V-60 Hz-0.5 AMP</td>
<td>Saddle Valve</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. PLENUM OPENING (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYPASS HUMIDIFIER</td>
<td></td>
<td></td>
<td>A. 12 1/2 x 12 1/2 x 9 5/8</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Model 558</td>
<td>0.50</td>
<td>750</td>
<td>B. 9 3/4 x 9 5/8</td>
<td>24V-60 Hz-0.5 AMP</td>
<td>Saddle Valve</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. PLENUM OPENING (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BYPASS HUMIDIFIER</td>
<td></td>
<td></td>
<td>A. 16 1/8 x 18 x 8D</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Model 448</td>
<td>0.75</td>
<td>1,050</td>
<td>B. DISCHARGE DUCT OPENING 10 x 3 1/2</td>
<td>120V-60 Hz-0.6 AMP</td>
<td>Saddle Valve</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. PLENUM OPENING (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SELF-CONTAINED</td>
<td></td>
<td></td>
<td>A. 13 3/4 x 12 1/2 x 12 1/2 **</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>HUMIDIFIERS</td>
<td>0.50</td>
<td>1,100</td>
<td>B. N/A</td>
<td>120V-60 Hz-0.7 AMP</td>
<td>Saddle Valve</td>
</tr>
<tr>
<td>Model 360</td>
<td></td>
<td></td>
<td>B. PLENUM OPENING (inches)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model 350</td>
<td></td>
<td>2,250</td>
<td>Note: Model 350 is 15D</td>
<td>24VAC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Note: Model 350 is 0.9 AMP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Dimensions of manual Models 445, 550, 560, and 760 are the same as automatic Models 448, 558, 568, and 768 respectively.

HEAT PUMP INFORMATION
Aprilaire humidifiers work well with heat pumps. Simply reduce humidifier capacity and square foot area for the heat pump models listed below by the percentage indicated. This accounts for a lower (drop from 120°F - 90°F) plenum temperature. Heat pump applications require hot water supply. Models 768 & 760 - 13%; Models 568 & 560 - 7%.

WATER CONSERVATION - Every largest Aprilaire humidifiers use less than $15$ of water per heating season and use it most efficiently with an automatic control. The flow-through designs uses any water not evaporated to prevent mineral build-up, keeping your humidifier clean.

All units except Models 448 and 445 use 1-1/2" I.D. plastic hose direct drain connection.

All Aprilaire models are warranted for one (1) year from date of installation for parts. See owner’s manual for further information.

** Specifications based on: (1) 20°F and 30% R.H. Outside Air; (2) 70°F and 35% R.H. Room Air; (3) Internal Moisture Gain of 1 lb/hr; (4) 30°F Blower Operation; (5) 8 ft. Ceiling Height.

** 360 and 350 calculations based on: (1) 20°F and 30% R.H. Outside Air; (2) 70°F and 35% R.H. Room Air; (3) Internal Moisture Gain of 1 lb/hr; (4) Continuous Humidifier Operation at 150 cfm; (5) 140°F Water at 6 GPH; (6) 8 ft. Ceiling Height.

* 360 wall frame: 16½" x 15½" x 16½" H
1 Based on water cost @ $0.80/100 lb and sewer cost @ $0.75/100 lb.
The Aprilaire® Indoor Air Comfort System is an integrated group of air quality enhancement products designed to work with your heating and cooling system to make your home more comfortable. For the best in indoor air quality, ask your heating and cooling contractor about these fine Aprilaire products, or visit us at www.aprilaire.com to solve your Indoor Air Comfort needs.