

# Improve your Environment

*Drainless whole-home humidifier*



*Conserves water*



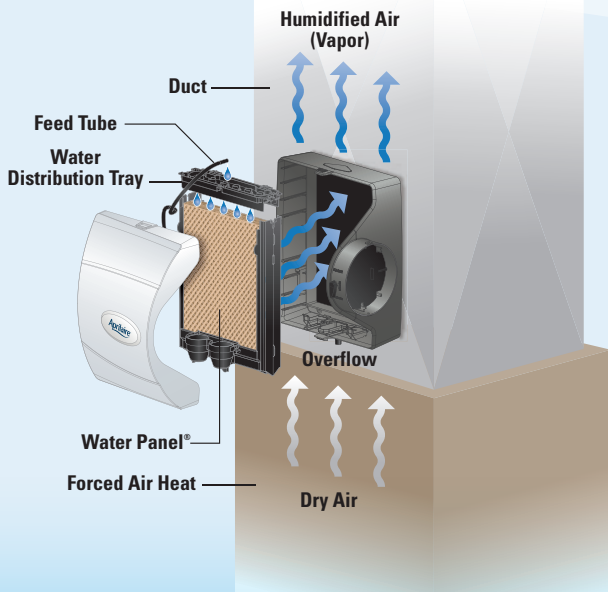
## **A WHOLE-HOME HUMIDIFIER USING PATENTED TECHNOLOGY MEANS NO DRAIN AND NO STANDING WATER**

Enjoy all the benefits of a properly humidified home, optimum comfort, improved health and protection of your home and furnishings. Aprilaire's innovative design approach

includes the Model 400K drainless evaporative humidifier—100% of the water is delivered to the air, eliminating the need for a drain.



# **Aprilaire**<sup>®</sup>

*Feel Good. Inside.<sup>™</sup>*



### THE MODEL 400K USES 100% OF ITS WATER

Evaporative humidifiers use forced-air heat to provide pure vapor humidity. The fundamental operation of the Aprilaire Model 400K is no different. The difference is the design of the water panel. The Model 400K utilizes “wicking” water panel technology. This eliminates the need to flow water through the panel and significantly reduces the amount of water needed which could be up to 5 gallons of water per hour of operation. Simply replace the water panel twice per season and enjoy the benefits of proper humidity and conserve natural resources.

 <p><b>Model 400K*/400MK**</b> Bypass Unit – Uses 100% of water and evaporative technology that eliminates the need for a drain.</p> <p>Conserves water </p>	<p>A. 15-3/8W x 15-3/4H x 10-1/4D 6” dia. round opening B. 10W x 12-3/4H</p>	17 gpd	24V-60Hz 0.5 AMP
	<p><b>^NOTE:</b> Heat pumps – Model 400K 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.</p>		

\* = Automatic Digital Control (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.

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

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 ^NOTE for Model 400) Bypass humidifiers can be installed on the supply or return plenum.

### 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)*** 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

\*\*\* 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 active 100% of the time, and plenum temperatures 120°F and cold water.

