

# Humidifiers

	Aprilaire Humidifiers	Model No.	Type of Humidification	Unit Size Width x Height x Depth	Plenum Opening	Capacity GPD = Gallons Per Day	Electrical Data	Water Panel/ Canister
800 Series		<b>800**</b> <b>801***</b>	<b>Steam Humidifier</b> For applications when evaporative units are less practical (attics, crawl spaces, closets, milder winter climates, non-forced-air heating source).	10 <sup>1</sup> / <sub>8</sub> " x 20 <sup>7</sup> / <sub>8</sub> " x 7 <sup>1</sup> / <sub>8</sub> "	-	11.5 GPD 16.0 GPD 20.5 GPD	120V 60Hz 11.5 AMP 120V 60Hz 16 AMP 208V 60Hz 11.5 AMP	80
		<b>865</b> <b>866***</b>	<b>Ductless Humidification System</b> Includes the Model 800, Fan Pack, Model 65 Control and Model 4028 Drain Trap. For homes without forced-air heating systems.	<b>Fan Pack:</b> 14" x 6 <sup>9</sup> / <sub>16</sub> " x 3 <sup>15</sup> / <sub>16</sub> " <b>Finished Grille:</b> 16 <sup>13</sup> / <sub>16</sub> " x 9" x 1 <sup>15</sup> / <sub>16</sub> "	-	30.0 GPD 23.3 GPD 34.6 GPD	208V 60Hz 16 AMP 240V 60Hz 11.5 AMP 240V 60Hz 16 AMP	80LC
700 Series		<b>700*</b> <b>700M**</b>	<b>Powered Unit</b> Built-in fan that pulls heated air directly from the furnace.	15 <sup>29</sup> / <sub>32</sub> " x 18" x 10 <sup>11</sup> / <sub>32</sub> "	W: 14 <sup>3</sup> / <sub>4</sub> " H: 14 <sup>5</sup> / <sub>16</sub> "	18 GPD	120V 60Hz 0.8 AMP	35
600 Series		<b>600*</b> <b>600M**</b>	<b>Bypass Unit</b> Uses the furnace blower to move air through a Water Panel*.	15 <sup>3</sup> / <sub>8</sub> " x 15 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> " 6" dia. round opening	W: 10" H: 12 <sup>3</sup> / <sub>4</sub> "	17 GPD	24V 60Hz 0.5 AMP	35
500 Series		<b>500*</b> <b>500M**</b>	<b>Bypass Unit</b> Designed for smaller homes.	15 <sup>5</sup> / <sub>8</sub> " x 13" x 10 <sup>3</sup> / <sub>4</sub> " 6" dia. round opening	W: 9 <sup>1</sup> / <sub>2</sub> " H: 9 <sup>1</sup> / <sub>2</sub> "	12 GPD	24V 60Hz 0.5 AMP	10
400 Series		<b>400*</b> <b>400M**</b>	<b>Bypass Unit</b> Uses 100% of water and evaporative technology that eliminates the need for a drain. <b>Conserves Water.</b> 	15 <sup>3</sup> / <sub>8</sub> " x 15 <sup>3</sup> / <sub>4</sub> " x 10 <sup>3</sup> / <sub>4</sub> "** 6" dia. round opening See note on heat pumps†	W: 10" H: 12 <sup>3</sup> / <sub>4</sub> "	17 GPD	24V 60Hz 0.5 AMP	45
300 Series		<b>360</b> <b>350</b>	<b>Self-contained</b> Designed for homes with radiators or baseboard heat.	<b>Model 360:</b> 13 <sup>3</sup> / <sub>4</sub> " x 12 <sup>3</sup> / <sub>4</sub> " x 12 <sup>1</sup> / <sub>2</sub> " <b>Model 350:</b> 13 <sup>3</sup> / <sub>4</sub> " x 12 <sup>3</sup> / <sub>4</sub> " x 15"	-	12 GPD	<b>Model 360:</b> 120V 60Hz 0.7 AMP <b>Model 350:</b> 120V 60Hz 0.9 AMP	35



HUMIDIFIER SIZING GUIDELINES GPD Needed Per Square Foot† Based on Building Structure Tightness							
Structure Tightness (8 Ft Ceilings)	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>
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.



# HUMIDIFIERS

**SUFFIX 'A'**

Automatic digital control (shown)

**SUFFIX 'M'**

Manual control

Where automatic control is not practical, the digital control can be installed in a manual mode



**400A/400M LARGE BYPASS UNIT**  
Uses 100% of water and evaporative technology, eliminating the need for a drain



**500A/500M SMALL BYPASS UNIT**  
Economy model. Designed for smaller homes



**600A/600M LARGE BYPASS UNIT**  
Uses the furnace blower to move air through a Water Panel®



**700A/700M POWERED UNIT**  
Built-in fan pulls heated air directly from the furnace

APRILAIRE#	SH#	TYPE	SQ. FT. AREA (AIR CHANGES/HR.)	UNIT SIZE W x H x D - Inches	PLENUM OPENING W x H - Inches	WATER EVAP. RATE	WATER FEED RATE	ELECTRICAL
400A	400A	Bypass humidifier	1,000 loose (2) 2,000 average (1) 4,000 tight (1/2)	15-3/8 x 15-3/4 x 10-1/4 6" dia. round opening	10 x 12-3/4	0.70 GPH	3 GPH	24v, 60 Hz, 0.5 amp
400M	400M							
500A	500A		750 loose (2) 1,500 average (1) 3,000 tight (1/2)	15-5/8 x 13 x 10-1/4 6" dia. round opening	9-1/2 x 9-1/2	0.50 GPH		
500M	500M							
600A	600A		1,000 loose (2) 2,000 average (1) 4,000 tight (1/2)	15-3/8 x 15-3/4 x 10-1/4 6" dia. round opening	10 x 12-3/4	0.70 GPH		
600M	600M							
700A	700A	Power humidifier	1,050 loose (2) 2,100 average (1) 4,200 tight (1/2)	15-29/32 x 18 x 10-11/32	14-3/4 x 14-5/16	0.75 GPH	6 GPH	120V, 60 Hz, 0.8 amp
700M	700M							

**WARRANTY**

All Aprilaire models are warranted for 5 years from date of installation for parts.

**COMPONENTS INCLUDED**

Saddle valves and transformers.

**U.L. INFORMATION**

All Aprilaire models are UL listed and meet the requirements of UL Standard 998 except 400A. All components in the 404A meet requirements of UL Standard 998 with the exception of the paper Water Panel.

**PERFORMANCE BASED ON**

- 20°F and 70% R.H. outside air.
- 70°F and 35% R.H. room air.
- Internal moisture gain of 1 lb/hr.
- 70% blower operation.
- 8 ft. ceiling height.



## HUMIDIFIER PARTS

SH#	APRILAIRE#	DESCRIPTION	USED IN APRILAIRE HUMIDIFIER MODEL
4335AA	4335	Feed tube with compression sleeve	400A, 500A, 500M, 600A, 600M
4655AA	4655	Manual humidifier control	500M, 600M, 700M
4336AA	4336	Sticker and manual mode resistor	Older beige colored automatic humidifiers
4232AA	4232	Orifice, blue	700A, 700M
4231AA	4231	Orifice, yellow	400A, 500A, 500M, 600A, 600M,
4236AA	4236	Scale control insert	700A, 700M
4330AA	4330	Scale control insert	600A, 600M
4640AA	4640	Scale control insert	500A, 500M
4403AA	4403	Scale control insert with float chamber	400A
4010AA	40101	Transformer	400A, 500A, 500M, 600A, 600M, 700A, 700M
4246	4246	Water distribution tray	700A, 700M
4331AA	4431	Water distribution tray	500A, 500M, 600A, 600M
45AA	45	Water panel evaporator	400A
10AA	10	Water panel evaporator	500A, 500M
35AA	35	Water panel evaporator	600A, 600M
4040AA	4040AA	Water solenoid valve, 24 volt	400A, 500A, 500M, 600A, 600M, 700A, 700M