

## **FEATURES**

- Can be plumbed to hot water to surpass rated performance
- Ideal for smaller homes
- Fast and easy installation for every application

SPECIFICATIONS				
Capacity	0.5 gph 12 gpd			
Electrical Data	24 VAC - 60 Hz - 0.5 amp			
Dimensions	15 <sup>5</sup> /8" W x 13" H x 10 <sup>1</sup> /4" D			
Weight	10 lbs. (Unit Weight) 12 lbs. (Shipping Weight)			
Bypass Connection	6" round			
Plenum Opening	9 ½" W x 9 ½" H			

# **500 Series**

# Whole-House Evaporative Humidifier

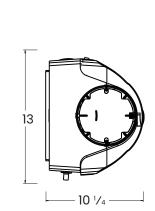


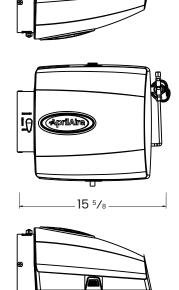
MODELS:

**500:** Automatic Whole-House Humidification **500M:** Manual Whole-House Humidification

### PRINCIPLE OF OPERATION

The AprilAire Model 500 Evaporative Humidifier operates in conjunction with the heating, ventilating, air conditioning equipment (HVAC) blower. When the AprilAire Humidifier Control calls for humidity and the blower motor is operating, water flows to the distribution tray located at the top of the humidifier. The water is uniformly distributed across the width of the tray and through a scientifically designed system of outlets, it flows by gravity over the Water Panel® evaporator, the heart of the humidifier. Dry, hot air is moved through the moisture-laden Water Panel® evaporator where natural evaporation takes place. The now-humidified air carrying moisture in vapor form (nature's own way) is circulated throughout the home.







### **ANNUAL OPERATION & MAINTENANCE**

#### **SUMMER**



## **SUMMER**

### Fall Startup:

- Turn humidistat to desired set point
- Set damper knob to WINTER (located next to AprilAire logo)
- Confirm water supply is on

#### SUMMER



# **SUMMER**

### **Spring Shutdown:**

- Turn humidistat to OFF\*
- Set damper knob to SUMMER

\*Digital humidifier control in automatic mode, no adjustment necessary

### Once Per Season:

• Remove cover and replace water panel. Clean the water panel housing. Use Genuine AprilAire Model 10.





Scan QR code for full humidifier maintenance tutorial

**Model 4655** 

HUMIDIFIER SIZING GUIDELINES GPD NEEDED PER SQUARE FOOT! BASED ON BUILDING STRUCTIURE TIGHTNESS								
	VOLUME OF BUILDING (FT3)							
STRUCTURE	8000	12000	16000	20000	24000	32000	40000	
TIGHTNESS	BUILDING FLOOR AREA (FT2) WITH 8 FT CEILIN				H 8 FT CEILINGS	S		
	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	3.3 GPD	5.0 GPD	6.7 GPD	8.3 GPD	10.0 GPD	13.4 GPD	16.7 GPD	
Average	6.7 GPD	10.0 GPD	13.4 GPD	16.7 GPD	20.0 GPD	26.7 GPD	33.4 GPD	
Loose	10.0 GPD	15.0 GPD	20.0 GPD	25.0 GPD	30.1 GPD	40.1 GPD	50.1 GPD	

GPD = Gallons Per Day, as recommended by AHRI (Air Conditioning, Heating and Refrigeration Institute), 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.

**Control Options** 

## INCLUDED WALL-MOUNT CONTROL



## Model 60 (500) **Automatic Humidistat**

- RH adjustment knob
- Backlit LCD displays RH & setting when adjusting
- Change water panel and service needed indicator lights • Blower Activation mode can extend
- humidifier run time



## Model 4655 (500M) **Manual Humidistat**

- RH adjustment knob
- Wall-mounted for easy access
- Humidity guide lets the user pre-adjust RH based on expected outdoor temperature changes
- Simple wiring

	Model 60	Model 4055		
Dimensions (W" x H" x D")	6 x 4 ¼ x 1 ½	5 1/8 x 3 3/8 x 1 15/16		
AC Power	24 VAC (18-30 VAC) at 60 HZ	N/A		
Power Consumption	0.08A @ 24 VAC	N/A		
RH Setting Range	10%-45%, Off (45%: max humidity)	15%-45%, Off (45%: max humidity)		
Humidity	Control Accuracy: ±3% RH Control Range: 0% to 45% RH Differential: 3.0% RH	Control Accuracy: ± 5%, Control Range: 0 to 45, Differential: 5%		
	System Setting: Auto or			

Blower Activation: Off or On

N/A

Model 60

### **MAINTENANCE KIT**



### **Model 4792** Maintenance Kit

Keep humidifier performance optimal with a new water panel, water panel assembly and water distribution parts.

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