

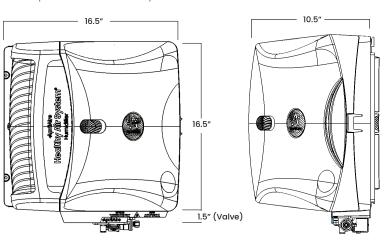
## **FEATURES**

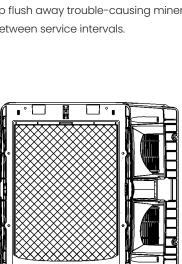
- · Highest capacity AprilAire evaporative humidifier
- HydroCore<sup>™</sup> Technology recirculates water to maximize panel saturation with a 60% reduction in wastewater\*
- Reconfigurable fan design allows for increased installation options on vertical or horizontal systems
- Fast and easy installation for every application with
   +/- 3 degree level tolerance
- Variable speed fan provides low speed option for reduced noise
- One-piece HydroCore™ simplifies annual maintenance
- Best choice for systems with low or variable speed air handlers
- Pulls heat directly from the plenum
- Designed for tightly constructed homes up to 6,250 ft2 total

\*versus Model 70

SPECIFICATIONS				
Capacity (Supply Mounted)	High Speed: 21 GPD (0.88 GPH) Low Speed: 19 GPD (0.79 GPH)			
Electrical Data	120 VAC - 60Hz - 1.25A 24 VAC - 60Hz - 10VA Required			
Required Water Supply	Recommend softened water or installing an inline scale reducing filter			
Dimensions	16 ½" W x 18" H x 10 ½" D			
Weight	13.75 lbs. (Unit Weight) 16.5 lbs. (Shipping Weight)			
Plenum Opening	14 1/4" W x 14 1/4" H			
Safety Standards	Listed to UL 998, CAN/CSA-C22.2 No. 104:20 - Humidifiers			

Capacity based on 120°F plenum and 70°F water temperature





# 720 Series

## Fan-Powered Evaporative Humidifier







MODELS: 720A: with Automatic Humidistat

720M: with Manual Humidistat

#### PRINCIPLE OF OPERATION

The AprilAire Model 720 Fan-Powered Evaporative Humidifier delivers maximum moisture output with superior water efficiency for ducted HVAC systems. When the humidifier control signals that humidity is low, water and air flow into the HydroCore™ where natural evaporation occurs. Increased output and water conservation are realized with water recirculation technology. The humidifier fan returns humidified air back to the duct where your HVAC system can distribute humidity throughout the home. The Model 720 utilizes water for both evaporation and the removal of solids left behind during the evaporation process. Installing on softened water is recommended. Water may or may not be noticed in the drain line due to the improved efficiency. Once humidity levels are reached, unused water is sent down the drain to prevent standing water from being retained. It is normal to notice a small surge of water in the drain line for this brief event. This is crucial to help flush away trouble-causing mineral deposits and prolong time between service intervals.

HUMIDIFIER SIZING GUIDELINES GPD NEEDED PER SQUARE FOOT! BASED ON BUILDING STRUCTURE TIGHTNESS									
	TOTAL TREATED VOLUME OF BUILDING (FT <sup>3</sup> )								
STRUCTURE	8000	12000	16000	20000	24000	32000	40000	48000	56000
TIGHTNESS	TOTAL TREATED BUILDING FLOOR AREA (FT2) WITH 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>	6000 Ft <sup>2</sup>	7000 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	20.1 GPD	23.4 GPD
Average	6.7 GPD	10.0 GPD	13.4 GPD	16.7 GPD	20.0 GPD	26.7 GPD	33.4 GPD	40.1 GPD	46.7 GPD
Loose	10.0 GPD	15.0 GPD	20.0 GPD	25.0 GPD	30.1 GPD	40.1 GPD	50.1 GPD	60.1 GPD	70.2 GPD

<sup>1</sup>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.

### INCLUDED WALL-MOUNT CONTROL



## **Model 60** (720A) **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
- · Outdoor temperature sensing for automatic set back of humidity to reduce window condensation
- · Manual or automatic operation (Return duct mounted)



## Model 4655 (720M) Manual Humidistat

- RH adjustment knob
- Duct or wall mounting options for easy access
- Humidity guide lets the user pre-adjust RH based on expected outdoor temperature changes
- Simple wiring

	Model 60	Model 4655		
Dimensions (W" x H" x D")	6 x 4 1/4 x 1 1/2	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%		
Control Options	System Setting: Auto or Manual Blower Activation: Off or On	Living space or return duct		

## **ANNUAL OPERATION & MAINTENANCE**

#### Fall Startup:

- Turn humidistat to desired set point
- · Confirm water supply is on

#### **Spring Shutdown:**

- Turn humidistat to OFF\*
- \*Digital humidifier control in automatic mode, no adjustment necessary

#### Once Per Season:

- Remove cover and HydroCore<sup>TM</sup>; replace with a Genuine AprilAire HydroCore™ Model L
- Brush away any scale buildup in the base or valve cup
- Inspect drain line and clear any buildup or blockages
- Inspect orifice and clear any buildup or blockages

