# AprilAire Humidifier

## 600 Series
### Whole-House Evaporative Humidifier



**MODELS:**
**600:** Automatic Whole-House Humidification
**600M:** Manual Whole-House Humidification

## FEATURES

- Should be plumbed to hot water to improve efficiency
- Fast and easy installation for every application
- Designed for homes up to 5,000 square feet with tight construction

## SPECIFICATIONS
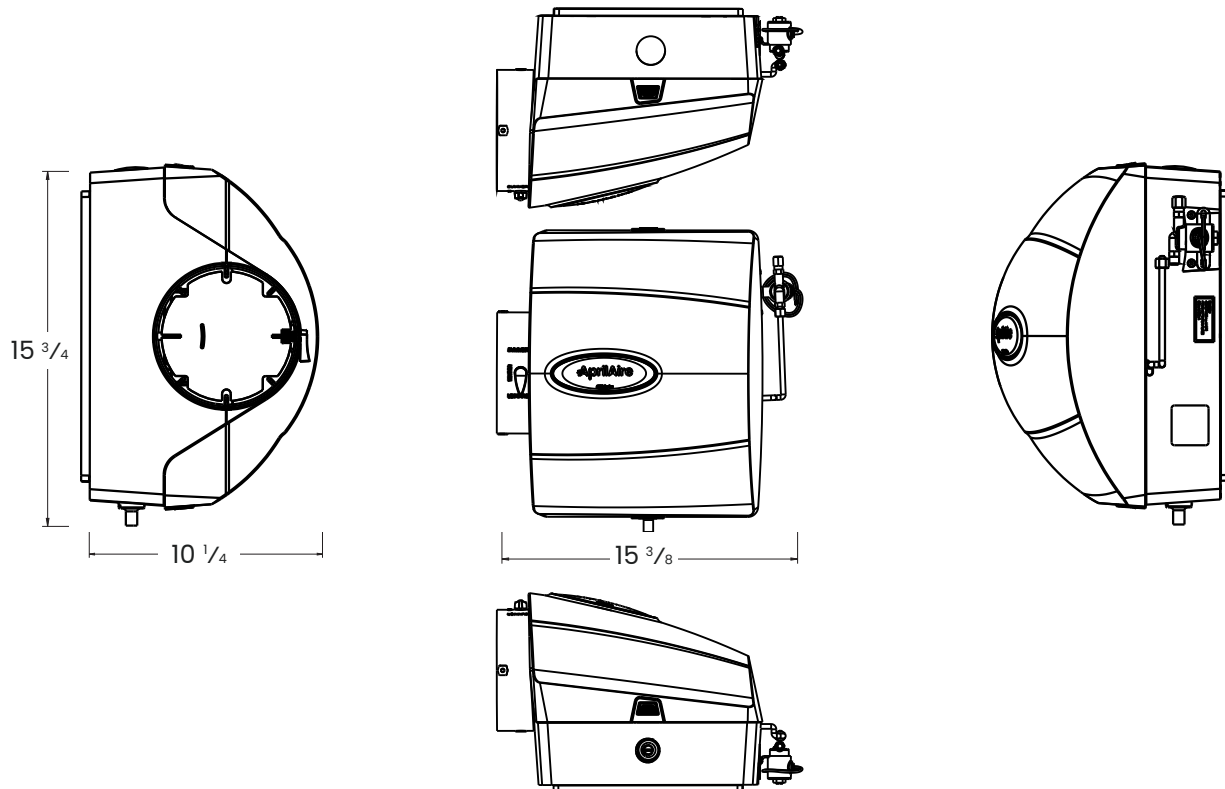
| | |
|---|---|
| **Capacity** | 0.7 gph<br>17 gpd |
| **Electrical Data** | 24 VAC - 60 Hz - 0.5 amp |
| **Dimensions** | 15 3/8" W x 15 3/4" H x 10 1/4" D |
| **Weight** | 10 lbs. (Unit Weight)<br>12 lbs. (Shipping Weight) |
| **Bypass Connection** | 6" round |
| **Plenum Opening** | 10" W x 12 3/4" H |

## PRINCIPLE OF OPERATION

The AprilAire Model 600 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

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

**Spring Shutdown:**
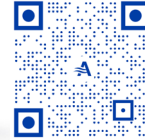- Turn humidistat to OFF*
- Set damper knob to SUMMER

*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 35.

**AprilAire Water Panel** Stock No. **35**

**Scan QR code** for full humidifier maintenance tutorial

| HUMIDIFIER SIZING GUIDELINES GPD NEEDED PER SQUARE FOOT‡ BASED ON BUILDING STRUCTIURE TIGHTNESS | | | | | | | |
|---|---|---|---|---|---|---|---|
| **STRUCTURE TIGHTNESS** | **VOLUME OF BUILDING (FT³)** | | | | | | |
| | 8000 | 12000 | 16000 | 20000 | 24000 | 32000 | 40000 |
| | **BUILDING FLOOR AREA (FT²) WITH 8 FT CEILINGS** | | | | | | |
| | 1000 Ft² | 1500 Ft² | 2000 Ft² | 2500 Ft² | 3000 Ft² | 4000 Ft² | 5000 Ft² |
| **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 120º F and water is cold.

## INCLUDED WALL-MOUNT CONTROL

**Model 60** (600)
**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** (600M)
**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

## MAINTENANCE KIT

**Model 4839**
**Maintenance Kit**
Keep humidifier performance optimal with a new water panel, water panel assembly and water distribution parts.

|  | **Model 60** | **Model 4655** |
|---|---|---|
| **Dimensions (W" x H" x D")** | 6 x 4 ¼ x 1 ½ | 5 ⅛ x 3 ⅜ 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 | N/A |