

# 8600 Series IAQ Controls

**Aprilaire®**  
Your Partners in Comfort®



Model  
8620W  
Shown

## Programmable



**8600**  
Universal 2H/2C  
or 4H/2C HP  
Touch screen



**8620**  
Universal 2H/2C or 4H/2C HP  
Event-Based™ Air Cleaning  
Humidity or Ventilation  
Touch screen  
Includes Outdoor  
Temperature Sensor



**8620W**  
Universal 2H/2C or 4H/2C HP  
Event-Based™ Air Cleaning  
Humidity or Ventilation  
Includes Outdoor  
Temperature Sensor  
Wi-Fi Touch screen

## 8600 Series Features & Benefits

- ✓ Real Language Programming — No Codes to Remember, No Manual to Reference
- ✓ Large 10.3 sq. in. touch screen
- ✓ High and Low Balance Point (Requires Outdoor Temperature Sensor)
- ✓ Built-In Dual Fuel Kit
- ✓ Dual Power **Models 8600, 8620**
- ✓ Maintenance Reminders
- ✓ Programmable Fan and Circulate Fan Mode
- ✓ Free Custom Imprinted Covers



# 8600 Series UNIVERSAL PROGRAMMABLE THERMOSTATS

## EASY TO INSTALL & MAINTAIN

- + Water panel, air filter, dehumidifier and HVAC service indicators
- + Dual Powered (choice of battery-powered or hardwired, for all applications)  
Models 8600, 8620
- + Easy-to-wire terminal block
- + Universal 2H/2C Conventional and 4H/2C Heat Pump
- + Configurable heating and cooling, heating only or cooling only operation
- + Remote indoor sensor option w/8051/8053 sensors
- + Dual fuel operation built-in (auto lock-out of compressor with call for fossil fuel aux heat)
- + Adjustable differential for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> stage
- + Configures as manual heat/cool, or with auto changeover

## ENGINEERED FOR EXCELLENCE

- + Millivolt compatible
- + High and low balance point (requires 8052 outdoor temperature sensor)
- + Display temperature offset (+/-4°)
- + Circulate fan mode
- + Multiple hold options maximizes comfort and energy savings
  - Vacation hold
  - Customizable timed hold
  - Permanent hold
- + 5-year warranty

## EASY & CONVENIENT TO USE

- + Displays room temperature, temperature setting and outdoor temperature simultaneously. (Outdoor temperature display requires 8052 outdoor temperature sensor.)
- + Large 10.3 sq. in LCD with high contrast for easier reading
- + Bright, white backlit display with constant low intensity light option
- + Programmable fan
- + "Copy" function for quick and easy programming
- + Real time clock automatically adjusts for daylight savings time
- + Exclusive message center (provides feedback and real language instructions)
- + Full or limited screen lockout
- + Progressive recovery
- + Built-in equipment protection
- + Equipment stage indication
- + Permanent memory — programming, and schedule are not lost during a power outage
- + Real language programming/set up — no manual needed, no codes to memorize

### Models 8620 & 8620W Only

Whole-Home Comfort Control

#### Humidity Control

- + Displays Indoor RH on User Interface

#### Fresh Air Ventilation

- + Can be set up to use ASHRAE 62.2 guidelines

#### Air Cleaning

- + Event-Based™ Air Cleaning
  - Constant Cleaning 24/7
  - Automatic (30 min/hr)
  - Event Clean (3 hr cycle)
  - Allergy (24 hr cycle)

## Dimensions

4 15/16" High x 6" Wide x 1 5/16" Deep

## Accessories

8052 Outdoor Temperature Sensor  
(included with Models 8620/8620W)

8051 Flush Mount Indoor Temperature Sensor

8053 Surface Mount Indoor Temperature Sensor



Model  
8052 Shown

## Thermal Specifications

**Control Range:** 45° to 99°F (7° to 32°C)

**Display Range:** 32° to 99°F (0° to 40°C)

**Accuracy:** ± 1°F (± .5°C)

**Storage Temperature:**

-30° to 140°F (-34.4° to 60°C)

**Operating Humidity:** 5% to 90% relative humidity

**Operating Ambient Temperature:**

32° to 120°F (0° to 48.9°C)

**Shipping Temperature Range:**

30° to 140°F (-34.4° to 60°C)

## Electrical Specifications

24 VAC (18-30 VAC)

1 amp maximum load per terminal

2.5 amp total maximum load (all terminals)

**AC Power:** 18-30 Volt AC

**DC Power:** 3.0 Volts DC

(2 "AA" Alkaline batteries included w/Models 8600 & 8620)

Standard systems gas, oil, electric

Single stage/heat pump/multi-stage

Millivolt systems

**Terminal Designations:**

C, B, O, Y, Y2, G, RC, R, W2, W, L, S2, S1, T1, T2  
Models 8620 & 8620W also have I<sub>1</sub> & I<sub>2</sub>