

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 1st, 2nd, 3rd and 4th 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



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 I₁ & I₂