

# 8400 Series IAQ Controls

**Aprilaire®**  
Your Partners in Comfort®



Model  
8476  
Shown

## Non-Programmable



**8444**

1H/1C

**8446**

2H/1C HP

**8448**

Universal 2H/2C  
or 4H/2C HP

## Programmable



**8463**

1H/1C

**8465**

2H/1C HP

**8466**

Universal 2H/2C  
or 4H/2C HP

**8476**

Universal 2H/2C or 4H/2C HP  
Event-Based™ Air Cleaning



**8476W**

Universal 2H/2C  
or 4H/2C HP  
Event-Based™  
Air Cleaning  
Wi-Fi

## 8400 Series Features & Benefits

- ✓ Large Backlit Display
- ✓ Built-in Dual Fuel Control
- ✓ Circulate Fan Mode for Better IAQ
- ✓ Built-in User Manual
- ✓ Maintenance Reminders
- ✓ High & Low Balance Point with Outdoor Temperature Sensor
- ✓ Free Custom Imprinted Covers



# 8400 Series THERMOSTATS

## EASY TO INSTALL & MAINTAIN

- + Dual Powered (choice of battery-powered or hardwired, for all applications-non-Wi-Fi models only)
- + Easy-to-wire terminal block
- + Water panel, air filter, dehumidifier and HVAC service indicators
- + Simple "set-up" menu makes installation a breeze
- + System test mode insures proper installation
- + Quick reference instructions on board
- + 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

## ENGINEERED FOR EXCELLENCE

- + Millivolt compatible
- + High and low balance point (requires 8052 outdoor temperature sensor)
- + Compressor lockout protection
- + Display temperature offset (+/-4°)
- + Configures as manual heat/cool, or with auto changeover
- + 5-year warranty

## EASY & CONVENIENT TO USE

- + Large 4.5 square inch LCD with high contrast for easier reading
- + Bright, white backlit display with constant low intensity light option
- + Displays room temperature, temperature setting and outdoor temperature simultaneously (Outdoor temperature display requires 8052 outdoor temperature sensor.)
- + Soft-touch keys
- + Circulate fan mode
- + Fahrenheit & Celsius
- + Removable front access battery cover for fast, easy replacement

### Dimensions

5.25" x 4.50" x 1.00"

**Individual Carton:** 5.80" x 4.80" x 1.75"

**Master Carton:** 10 per carton

### Accessories

8052 Outdoor 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

Standard Systems gas, oil, electric

Single Stage/Heat Pump/Multi-Stage

Millivolt Systems

**Terminal Designations:**

Rc, R, W, Y, G, C, S1, S2, 0/B, L, W2, Y2

## Programmable Models Only

Easy to use temperature control to override program schedule at anytime

Progressive recovery

Permanent program retention during power loss

Indefinite setpoint Hold

Choice of 5/1/1 day programmable, 5/2 day

(7 day only [Model 8476W](#))

## Model 8476 & 8476W Only

Clean Air button provides control of the air cleaning system and confirmation that the air is being cleaned

The Clean Air button controls the Event-Based™ Air Cleaning

**ON 24/7** – Full time, non-stop air cleaning

**AUTO** – Cleans air when there is a heat or cool call

**CIRC 30/HR** – Circulates and cleans the air 30 minutes each hour

**EVENT 3 HR** – Cleans for a 3 hour period. When you vacuum, during a party

**ALLERGY 24 HR** – Cleans for a continuous 24 hour period when allergies are most uncomfortable