

# Home Comfort is much more than raising and lowering temperature.



## Features

- Integrated Indoor Air Quality Solutions
  - Humidity Control
    - » Humidifier (Automatic or Manual)
    - » Dehumidifier
  - Event-Based™ Air Cleaning
  - Fresh Air Ventilation with limits
    - » Timed or ASHRAE set-up
- Universal system compatibility
- 3 wire design
- Intuitive, simple user interface
- Real language descriptions in set up menus
- Heat Blast™ – schedule override
- Service reminders
- Dealer imprint program for battery cover
- 5 Year limited warranty

*Deliver optimum humidity, air cleaning, fresh air and temperature*

## Benefits

- Increase the number of IAQ products sold per install
- Increase recurring revenue from service reminders
- Improve customer satisfaction by installing a control that is simple and intuitive to operate; one location for confirmation and control
- Easy, predictable install
  - No additional wires to pull
  - Fewer components
- Real language programming, no need to reference manuals for set up codes

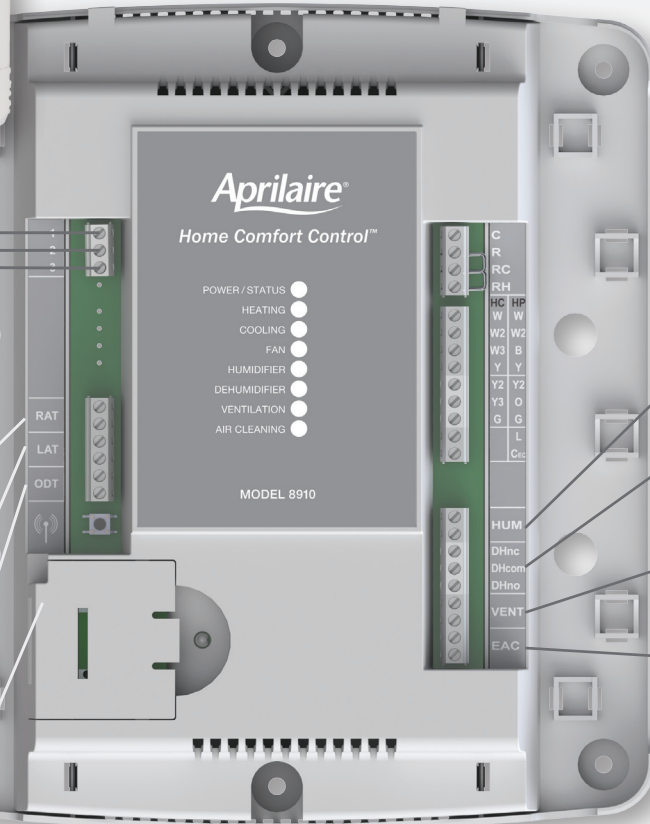
## User Interface



3-wire connection»

## Equipment Control Module

8 LEDs indicate HVAC equipment and IAQ accessory status.



Optional Return Air Temperature Sensor (RAT) provides protection with heating and cooling back-up control if connection is lost.

Optional Leaving Air Temperature Sensor (LAT) provides the supply air temperature during the installer test.

Included — Wired Outdoor Temperature Sensor 8052 (ODT)



Optional Wireless Outdoor Temperature Sensor 8056 (ODT)

## Aprilaire Model 8910 Home Comfort Control

The Aprilaire Model 8910 Home Comfort Control consists of two components, the User Interface and the Equipment Control Module. The User Interface, located in the living space, integrates all indoor air quality functions – heating/cooling, humidification/dehumidification, air cleaning and ventilation in one attractive, easy-to-use, touch screen control. The User Interface offers homeowners the ability to easily set all of their IAQ and HVAC products from one location in the living space. The primary screen indicates how to easily activate and control set points. In addition, the display provides the homeowner with confirmation that the equipment is operating at the desired control settings.

FOR MORE INFORMATION VISIT

# HOME COMFORT CONTROL FEATURES



## Humidity Control

### Humidifier»

- Displays indoor RH on User Interface
- Notifies when humidifier is active
- Automatic humidity setpoint adjustment (must use ODT) or Manual Control
- Water Panel® replacement reminder

### Dehumidifier»

- Displays indoor RH on User Interface
- Notifies when dehumidifier is active
- Operates whole house dehumidifier or air conditioner to dehumidify
- Dehumidifier service reminder
- Energizes HVAC blower when dehumidifying

## Fresh Air Ventilation

- Provides fresh air with a motorized damper or an ERV/HRV
- Notifies when ventilation is active
- Control limits based upon outdoor temperature and RH
- Can be set up to use ASHRAE 62.2 guidelines or timed ventilation

## Air Cleaning

- Event Based™ Air Cleaning - 4 selectable air cleaning events
  - Constant Cleaning (24/7)
  - Automatic (30 min/hr)
  - Event Clean (3 Hr Cycle)
  - Allergy (24 hr Cycle)
- Notifies when air cleaning is active
- Media replacement reminder
- Controls EAC with dedicated 24 V AC dry contact

## Temperature Control

- Universal Programmable Thermostat - 3H/3C Conventional or 4H/2C Heat Pump
- Selectable, 7 day, 5/2, 5/1/1 or non programmable
- 2 or 4 events/day
- Dual fuel operation
- High and low balance points (must use ODT)
- Screen lock-out to prevent unauthorized adjustments
- Adjustable differential for all stages
- Stage rate control uses equipment run time to control HVAC equipment staging
- Progressive Recovery feature ensures that the setpoint is reached by the scheduled time.
- Heat Blast™ allows one touch control of heating to raise room temperature 3°F to 5°F



# Aprilaire Home Comfort Control

## Model 8910

### Installation

24 VAC powered with battery backup for user interface

Dual fuel operation (auto lockout of compressor w/ call for back-up heat)

Programmable (2 or 4 events per day)

Remote indoor sensor option w/8051/8053 sensors

Temperature offset  $\pm 4^{\circ}$

Integrated dual fuel kit w/ high and low balance point control (requires 8052 sensor included)

3H/3C conventional and 4H/2C heat pump

Configurable manual heat/cool or auto changeover modes

Configurable for heating only or cooling only operation

Large, easy-to-wire terminal block

Adjustable differential for 1st, 2nd, 3rd and 4th stages

### Operation

Service reminders

- Humidifier, Air Cleaner, Dehumidifier

Easy to remove battery cover — designed for dealer branding program

Circulate fan mode

Programmable fan

Progressive recovery

Built-in equipment protection

Equipment stage indication

High and low setpoint temperature limits

Five year warranty

“Copy” function for quick and easy programming

Multiple hold options maximizes comfort and energy savings

- Vacation hold
- Customizable timed hold
- Permanent hold

Real time clock automatically adjusts for daylight savings time

Permanent memory — programming, time and date isn't lost during a power outage

Heat Blast™ allows one touch control of heating to raise room temperature 3°F to 5°F

### Screen

Large 10.3 sq. in. touch screen

Large font size

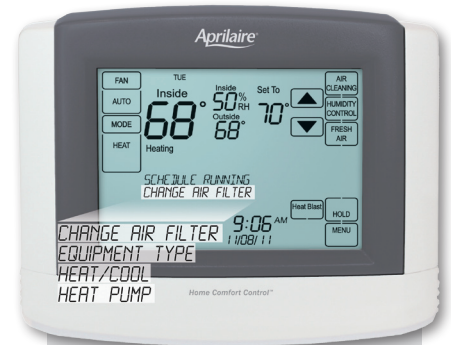
Fully back lit w/ constant low intensity light option

Exclusive message center (provides feedback and real language instructions)

Displays outdoor temp (w/ included 8052 sensor)

Real language programming/set up — no manual needed, no codes to memorize

Full or limited screen lockout



*Real language programming!  
No codes to remember  
No manual to reference*

### Thermal Specifications

Control range: 40° to 99°F (7° to 32°C)

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

Accuracy:  $\pm 1^{\circ}\text{F}$  ( $\pm .5^{\circ}\text{C}$ )

Storage temperature: -30° to 140°F (-34.4° to 60°C)

Operating humidity: 5% to 90% relative humidity non-condensing

Operating ambient temperature of user interface: 32° to 120°F (0° to 48.9°C)

Operating ambient temperature of ECM: 32° to 158°F (0° to 70°C)

Shipping temperature range: -30° to 140°F (-34.4° to 60°C)

### Accessories

8052 Outdoor Temperature Sensor (included)

8051 Flush Mount Indoor Temperature Sensor (optional)

8053 Surface Mount Indoor Temperature Sensor (optional)

8056 Wireless Outdoor Temperature Sensor (optional)

Return Air Temperature Sensor (RAT) optional sensor provides protection with heating and cooling back-up control if connection is lost.

Leaving Air Temperature Sensor (LAT) optional sensor provides the supply air temperature during the installer test.

### Dimensions

User interface 6" x 4.85" x 1.25"

Equipment control module 8.6" x 9.6" x 1.9"

### Electrical Specifications

24 VAC powered (18-30 VAC)

1 amp maximum load per terminal

2.5 amp total maximum load (all terminals)

Standard systems gas, oil, electric

Single stage/heat pump/multi-stage

#### Terminal Designations:

User interface: 1, 2, 3

Equipment control module: 1, 2, 3, RAT, LAT, ODT, C, R, RC, RH, W, W2, W3/B, Y, Y2, Y3/O, G, L, C<sub>EQ</sub>, HUM, DH<sub>NO</sub>, DH<sub>NC</sub>, DH<sub>COM</sub>, VENT, EAC