



## Unilux VFC RetroStat



## Unilux VFC Parts & Service

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## Unilux VFC RetroStat 1st Generation

### Product Description

The Unilux VFC RetroStat thermostat is a fully-programmable, digital, Wi-Fi thermostat designed specifically for fan coil applications in condominiums, hotels, apartments, etc.

Changes in output wiring and external links between wiring terminals allow you to configure the thermostat for the appropriate application. The available configurations are:

- Two pipes – Heat or cool with manual changeover (no auxiliary heat)
- Two pipes – Heat or cool with manual changeover and auxiliary heat
- Four pipes – Heat or cool auto changeover.

The thermostat comes with five built-in relays, one for each W, Y, Hi, Med and Low.

- W is for heat or cool
- Y is for cool or auxiliary heater
- Hi, Med & Low relays control the fan speed that is selected

The fan is controlled by the thermostat. Low, medium, high and auto fan settings are made with the thermostat buttons or your Universe app.

### Wi-Fi Connectivity

The Unilux VFC RetroStat uses a board-mounted fully-approved Wi-Fi transceiver with built-in antenna. This thermostat is easily paired with most smartphones, tablets or laptop computers through a wireless router. To learn how to connect to Wi-Fi, download the Wi-Fi thermostat manual from [www.uniluxvfc.com/resources/](http://www.uniluxvfc.com/resources/).

### Features

- Large, clear LCD display with blue backlighting
- Displays:
  - Current temperature in Celsius or Fahrenheit
  - Current humidity
  - Set temperature in Celsius or Fahrenheit
  - Date & time in 12 or 24-hour time
  - Fan Mode (Auto, Low, Med, Hi, Off)
  - Operation mode (Heat, Cool, Vacation, Off)
  - Schedule mode (Permanent Hold, Temporary Hold, On Schedule)
  - Scheduled Programs: 1, 2, 3, 4
  - Wi-Fi connection indication
- Wired to unit control board for manual inputs

### Specifications

- Supply voltage: 20 to 30 Vac at 50/60 Hz (using 24 Vac, Class 2 NEMA rated transformer)
- Wi-Fi:
  - Transmitter / receiver 2.4 GHz frequency
  - 802.11b & 802.11g modulation
  - Data rates: 1-11 Mbps for 802.11b & 6-54 Mbps for 802.11g
  - Security: WPA2-PSK (AES)
  - Supports WiFi Protected Setup (WPS)
  - Power output: 0 to +12dBm
  - Unique MAC address
  - Modular certified U.S. (FCC) and Canada (IC)
- Fuse:
  - Board-mounted resettable fuse – if fuse continues to blow, replace the thermostat.

### Specifications

- Environmental ratings:
  - Temperature:
    - Operating -18°C to 49°C (0°F to 120°F)
    - Storage -29°C to 49°C (-20°F to 120°F)
  - Humidity: 5% to 95% relative humidity (RH), non-condensing
  - Board-mounted temperature sensor
  - (Optional) Water pipe temperature sensor
  - (Optional) Remote-mounted temperature sensor
- Enclosure: Plastic case – front cover and back cover
- Electrical box mounting – with optional wall adaptor plate (connects thermostat back cover to plate)
- Dimensions:
  - 4.6" (117.6mm) X 4.3" (109.7mm) X 1.5" (38.8mm) W X H X D
- Wiring:
  - 8 screw-in terminals (13 with all options) accept stranded or un-stranded 14 to 28-gauge wire.

## Manual

Unilux VFC Thermostat manuals are available online. You can view & download the manuals for free at [www.uniluxvfc.com/resources](http://www.uniluxvfc.com/resources).

The manual for this thermostat is the Wi-Fi Enabled Thermostat Manual.

If you click on the manuals tab, you'll see copies of our manuals along with videos that explain how to register your Universe account, how to use the mobile app and how to use the web app.

## Troubleshooting

If your thermostat is not functioning properly, you can reset it to troubleshoot issues. To reset your thermostat, press escape, up & down at the same time for 5 seconds. The thermostat screen should light up and reset.

If this does not solve the issue, please contact our service department:

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## Installation

### Terminal Wiring

C – Common 24 Vac  
R – 24 Vac power  
W – Heating  
Y – Cooling  
G1 – Fan low speed  
G2 – Fan medium speed  
G3 – Fan high speed

### Installation Instructions

- Prepare the wall for mounting the thermostat, including identifying the wires as noted above.
- The thermostat is a two-piece design. Release the back over from the front by pushing the both sides and gently separating the two pieces.
- Record your SSID and password in the space on the right. The SSID and password are found on the back of the board in the top right corner.
- Remove the battery pull tab (if applicable).
- Thread the wires through the back-cover opening and secure them into the wiring terminal connector block according to the wiring diagram.
- Push any excess wire into the hole in the wall.

### Installation Instructions (Continued)

- Level the thermostat and secure the back cover flush against the wall with the screws and plugs provided.
- Centre the front cover and snap it on to the back cover.
- Proceed to the setup instructions
  - Register your Universe account to unlock Wi-Fi control capabilities.
  - Set up your display preferences with the menu button. Refer to the user manual.

**SSID:** TH \_\_\_\_\_

**Password:** a \_\_\_\_\_

### Accessories

We offer a number of accessories for your thermostat and vertical fan coil unit. To browse and purchase accessories or replacement parts, please visit [www.uniluxvfc.com/parts](http://www.uniluxvfc.com/parts).

Some examples are:

- Electrical-box wall adaptor plate
- Remote wall temperature sensor
- Freeze protection

