



Aprilaire Wi-Fi 8800 Series Integration Release Notes

Content

Introduction...	1
Installing the Aprilaire thermostat...	2
Connecting to ClareHome...	3
Enabling auto-changeover...	5
Disabling the thermostat's default schedule...	6
Configuring in Fusion...	7
Configuring rules with the Aprilaire Wi-Fi thermostats...	9
Contact information...	11

Last modified: 11/05/20

Introduction

The Aprilaire Wi-Fi thermostats are a series of Wi-Fi thermostats that have been tested and certified for integration with the ClareHome system.

When integrating an Aprilaire Wi-Fi thermostat into your ClareHome project, no extra connections are necessary. Install the thermostat per the Aprilaire documentation, access the thermostat using the IP address, configure the thermostats settings, and then connect it to the network using IP.

All HVAC integrations share a common UI, so that the user experience is consistent. Temperature settings are controlled via events. Use Fusion's Scenes and Rules to automate the actions your customers want.

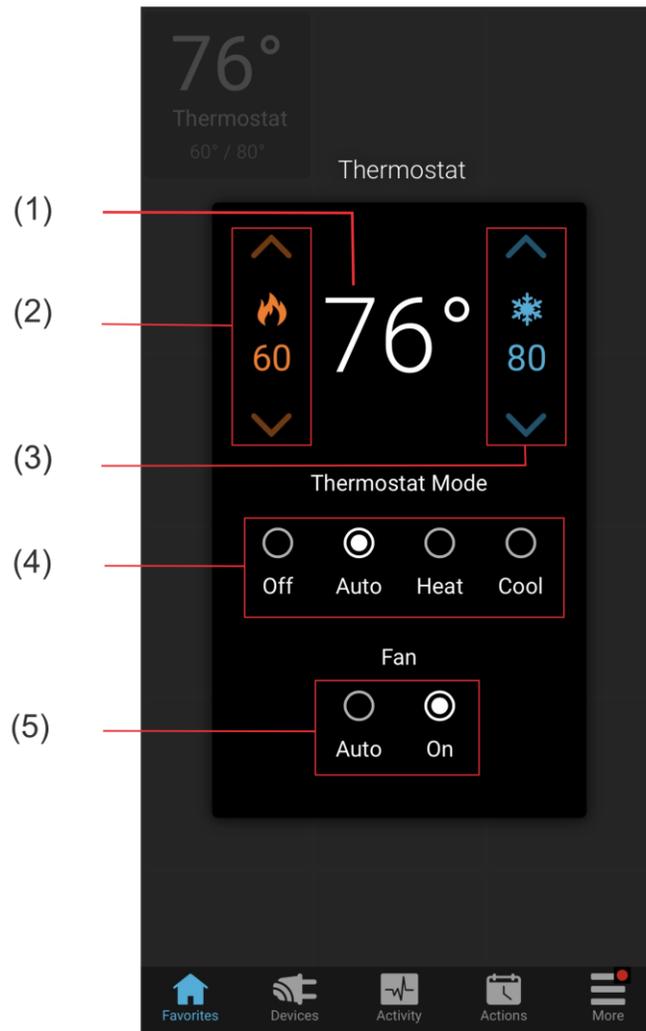
Note: The Aprilaire thermostats are programmed with a default schedule. This schedule can interfere with ClareHome and Fusion configuration. Disable the default schedule to allow greater customer access and control. Follow the integration notes below.

Supported models:

- 8810
- 8820
- 8830
- 8840

The Following figure shows the Aprilaire 8810 controls on the ClareHome UI.

Figure 1: Temperature mode showing temperature set points



- (1) Temperature setting displays on the ClareHome UI in Fahrenheit.
- (2) Change the Heat set point by tapping the up/down arrow.
- (3) Change the Cool set point by tapping the up/down arrow.
- (4) Change the Operation mode by tapping the desired radio button.
- (5) Change the Fan mode by tapping the desired radio button.

Installing the Aprilaire thermostat

A qualified HVAC installation technician should install the Aprilaire thermostat. Refer to the documentation that came with the thermostat for detailed installation instructions. Clare Controls does not assume any responsibility for damages caused by improper installation or connection to the data network.

Connecting to ClareHome

After installation, you must connect the thermostat to Wi-Fi, enable auto changeover, disable the thermostat's default schedule, and verify the thermostat is set to automation system. This allows the thermostat to be accessed remotely and updated with information from the ClareHome App.

Note: The thermostat is set to Automation System by default. If it is no longer set to Automation System, the thermostat will not connect to ClareHome.

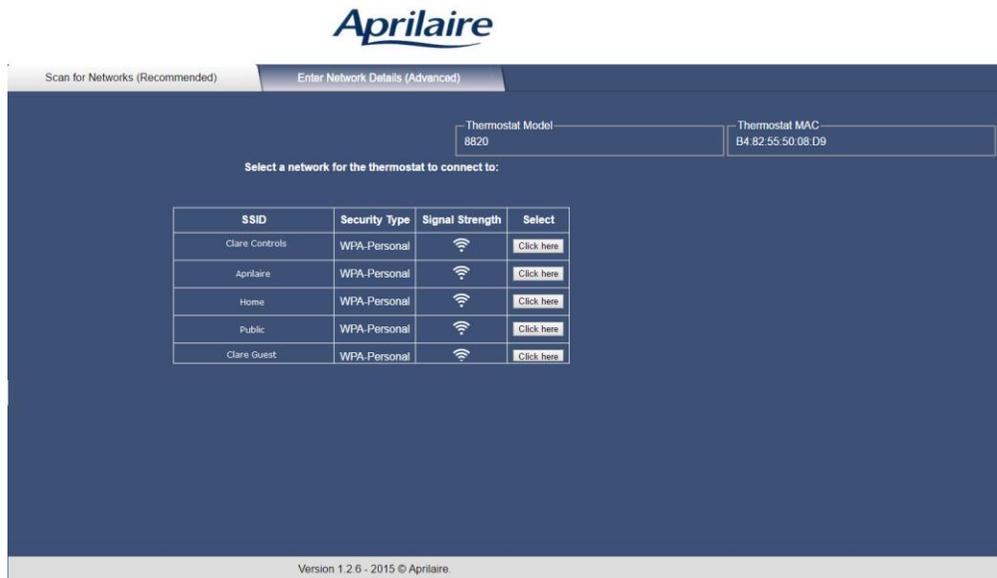
To connect the Aprilaire thermostat to Wi-Fi and set a static IP address:

Note: When the Aprilaire Wi-Fi thermostat is powered on, it broadcasts its own Wi-Fi.

1. Use a laptop device to connect to the Aprilaire's Wi-Fi.

Note: The Wi-Fi appears as APRILAIREXXXXOOOOO. The X's are replaced with the model number and the O's are replaced with the last 6 characters of the MAC address. For example, if you are using an Aprilaire Wi-Fi 8830 with the MAC address AA:F4:E6:B1:22, the Wi-Fi network is APRILAIRE8830E6B122.

2. Browse to <http://192.168.1.99/index.html> to access the thermostat's web interface.



3. Click **Click here** next to your home's wireless network.

4. Enter the password, and then select the Advanced Options check-box.

The screenshot shows the Aprilaire thermostat configuration interface. At the top, the Aprilaire logo is displayed. Below it, there are two input fields: "Thermostat Model" with the value "8820" and "Thermostat MAC" with the value "B4:82:55:50:08:D9". The main section is titled "Configure wireless and network settings" and contains a sub-section "Enter password for selected network:". This sub-section includes fields for "SSID" (Clare), "Security" (WPA/Personal), and "Password" (with a "Show Password" checkbox). Below this, there is a checkbox for "Advanced Option" which is currently unchecked. At the bottom of the configuration area, there are "Back" and "Save and Apply" buttons. The footer of the page reads "Version 1.2.6 - 2015 © Aprilaire."

5. Enter the Static IP address settings.

Note: Using a static IP address ensures consistent operation and communication with the device.

The screenshot shows the Aprilaire thermostat configuration interface, similar to the previous one. The "Advanced Option" checkbox is now checked, and a sub-section "Static IP Address Configuration" is visible. This sub-section includes fields for "IP Address", "Subnet Mask", "Gateway", and "DNS Server", each with a grid of input boxes. The "Enter password for selected network:" section is still present but partially obscured. At the bottom of the configuration area, there are "Back" and "Save and Apply" buttons. The footer of the page reads "Version 1.2.6 - 2015 © Aprilaire."

6. Click **Save and Apply**.
The Aprilaire settings are saved.

Enabling auto-changeover and automation mode

Enable auto-changeover and automation mode to allow the thermostat to automatically switch between heat and cool modes. Once auto-changeover is enabled, the thermostat reboots.

To enable auto-changeover and automation mode in the Aprilaire 8810 Wi-Fi thermostat:

Note: Verify that the Thermostat Mode is set to off prior to changing the schedule settings. To do this, tap **Mode** until the thermostat displays off.

1. Press and hold the thermostat's **Mode** and **Up** buttons until the displayed screen changes.
2. Press **Mode** until you reach option 12.
3. Press the up/down arrow to toggle to 1.
4. Press **Mode** until **Done** displays.
5. Press and hold the thermostat's **Mode** and **Up** buttons until the displayed screen changes.
6. Press **Mode** to reach option 00.
7. Press the up/down arrow to toggle to 1.
8. Press **Mode** until **Done** displays.

To enable auto changeover and automation mode in the Aprilaire 8820 and 8830 Wi-Fi thermostats:

1. Access the thermostat, and then press **Mode** to set the thermostat to off.
2. Press **Menu**, and then press and hold **Setup** until the screen changes.
The thermostat displays Installer Mode Enabled.
3. Press **Installer Setup** to enter the menu, and then press the right **Next** arrow to select the menu option.
4. Verify that the first menu item, 00, is set to Automation System.
5. Use the up and down arrows to select option 12, and then press the up/down arrow to enable Auto Changeover.
6. Press **Done** to save,
7. and press it a second time to exit the menu.

Note: If the project is already deployed with the thermostat configured, you must redeploy the project for ClareHome to connect to the thermostat.

To enable auto changeover in the Aprilaire 8840 Wi-Fi thermostat:

1. Access the thermostat, and then press **Menu**.
2. Press and hold **Contractor Info** until the screen changes (about 10 seconds).
The thermostat displays the Installer Mode box, and then reboots.
3. Press **Thermostat (Heat Cool)**.
4. Press **Next** until the auto-changeover options displays, use the up/down button to enable it.
5. Press **Next** until the menu screen displays, and then press **Done** to save.
The thermostat reboots.

Disabling the thermostat's default schedule

After you have enabled auto-changeover, disable the thermostat's default schedule. Disabling the thermostat's schedule allows the ClareHome and Fusion configured schedules to operate correctly.

To disable the Aprilaire 8810 Wi-Fi thermostat's default schedule:

Note: Verify that the Thermostat Mode is set to off prior to changing the schedule settings. To do this, tap **Mode** until the thermostat displays off.

1. Press and hold the thermostat's **Mode** and **Up** buttons until the displayed screen changes.
2. Press **Mode** until you reach option 41.
3. Press the up/down arrow to toggle to 1.
4. Press **Mode** until **Done** displays.

To disable the Aprilaire 8820 and 8830 Wi-Fi thermostat's default schedule:

1. Press **Menu**, and then press **Setup**.
2. Press **Next** until Program Format displays.
3. Press the up/down arrow to change the setting to **non-prog**.
4. Press **Done** to save.

You are returned to the main screen.

To disable the Aprilaire 8840 Wi-Fi thermostat's default schedule:

1. Tap **Menu**, and then **User Preferences**.
2. Tap **Schedule Settings**, and then select **Off**.
3. Tap **Done** to save.

You are returned to the main screen.

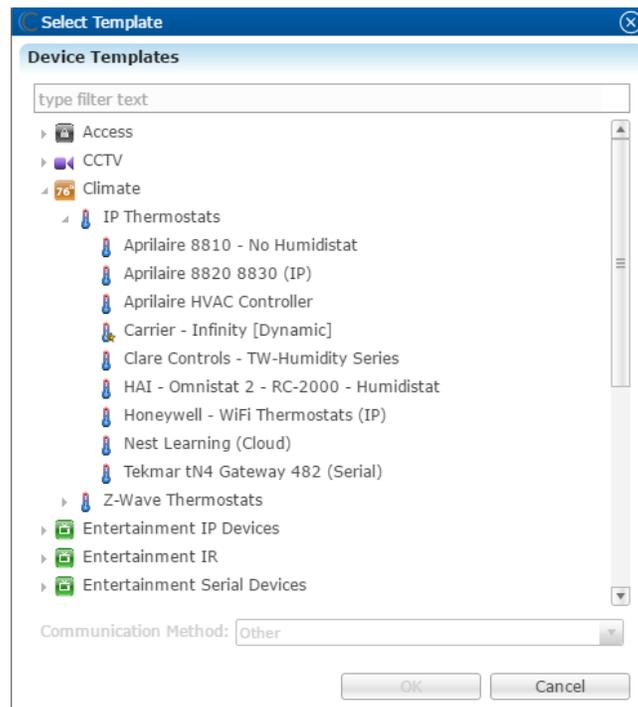
Configuring in Fusion

Once the thermostat has been installed, connected to Wi-Fi, and set to auto changeover, configure the Aprilaire thermostat in Fusion.

To add the Aprilaire Wi-Fi device in Fusion:

1. Click the **Devices** tab, and then click the **New Device** button  to display the Select Template dialog.
2. Expand the **Climate** folder, and then browse to the Aprilaire Wi-Fi Thermostats.

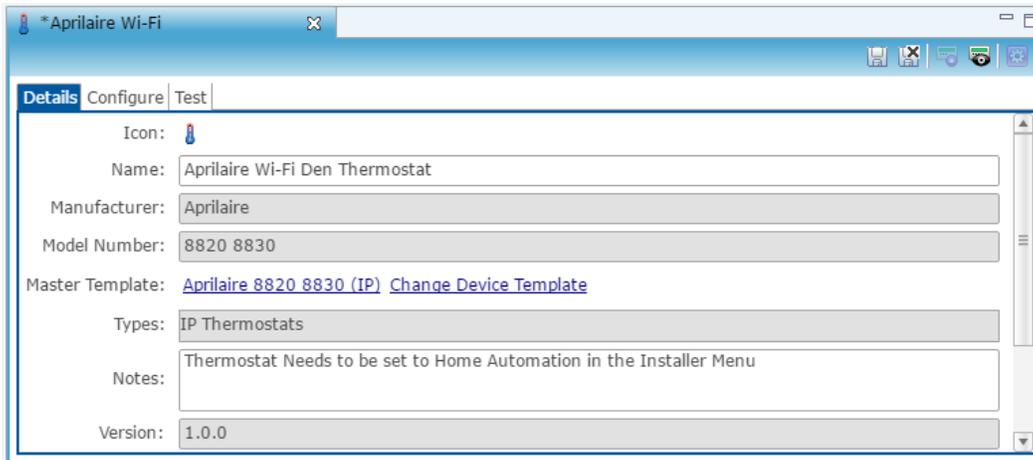
Climate > IP Thermostats > Aprilaire Wi-Fi Thermostats (IP)



Note: If the home is not using the humidistat, we recommend using the Aprilaire 8810 template. This presents the user with accurate functional UI options, removing the unused humidistat options.

3. Click **OK**.

The **Details** tab displays.



4. Enter a name and notes for the thermostat.

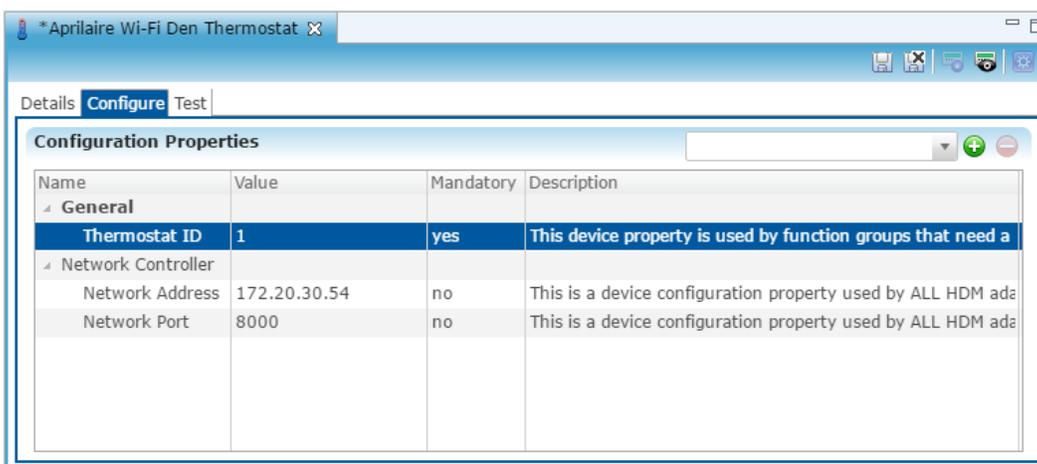
5. Click the **Configure** tab.

6. Enter values in the following fields:

- **Thermostat ID:** Enter the thermostat number associated with that thermostat.

Note: Fusion sets the Thermostat ID to 1 by default. This number only needs to be changed if there is more than one thermostat in use. We recommend assigning the thermostats IDs in order. The first thermostat added is 1, the second thermostat is 2, and so on.

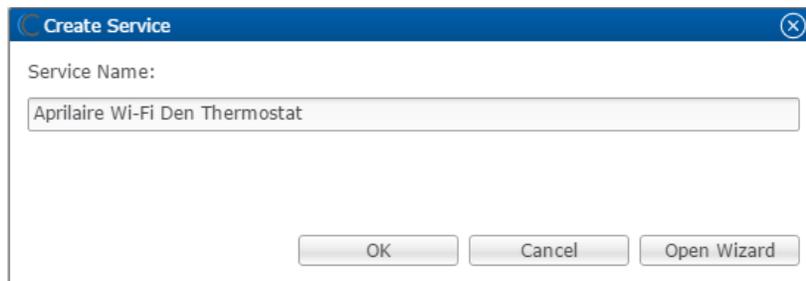
- **Network Address:** The static IP address of the Aprilaire thermostat set in the Wi-Fi setup process.
- **Network Port:** The port used by the thermostat. Do not change the port number.



7. Click the **Save** button .

8. The Create Service dialog displays. Click **OK**, the service is automatically created for you.

Note: Select **Open Wizard** to check or change the controls points.



9. Configure rules to work with your thermostat.

Configuring rules with the Aprilaire Wi-Fi thermostats

Configure a rule for your thermostat. The example below shows how to set a rule alerting the customer of the home's temperature. If the thermostat reaches above 72°F, an email notification is sent.

To create a rule for the Aprilaire thermostat in Fusion:

1. Access your project, and then click the **Rules** tab.



2. Click the **New Rule** button .
3. Enter a name for the rule, and then select the Enable Rule checkbox.



4. Configure the Event Part as below.
 - **Event Type:** Device Property Change Event
 - **Device:** Aprilaire WiFi thermostat
 - **Function:** Heat Cool Temperature Actuator
 - **Property:** Unit
 - **Constraint:** >
 - **Value:** 72

Event Part

Event Type: Device Property Change Event

Device: [- Aprilaire Wi-Fi thermostats - Den](#)

Function: Heat Cool Temperature Actuator

Property: Unit

Constraint: >

Value: 72

5. Configure the Action part as below.
 - **Action Type:** Send Email
 - **Recipients:** The homeowner's Email address

Note: To add an Email address, click the green plus icon . Do this for each desired Email recipient.
 - **Subject:** The purpose of the alarm
 - **Text:** The information included in the email

Action Part

Action Type: Send Email

Recipients  

Tivan@gmail.com

Subject: It's getting warm!

 **Text:** The thermostat has reached above 72. You may want to turn on the AC.

6. Click the **Save** button , and then deploy the project.

Contact information

Clare Controls, LLC.
7519 Pennsylvania Ave, Suite 104
Sarasota, FL 34243

General: 941.328.3991

Fax: 941.870.9646

www.clarecontrols.com

Integrator/Dealer Support: 941.404.1072

claresupport@clarecontrols.com

Homeowner Support (ClareCare): 941.315.2273 (CARE)

help@clarecontrols.com