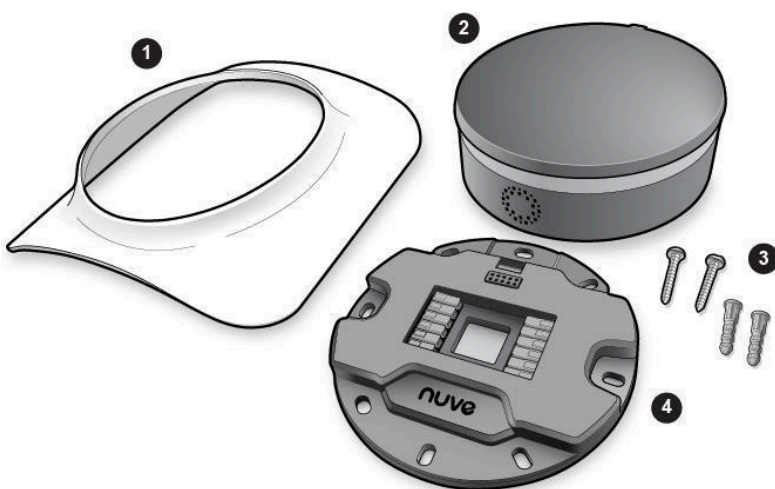


# Installation Guide

Nuve is a smart home thermostat that optimizes your client's home comfort while monitoring their HVAC system's health. It directly connects you with your customers, allowing them to request your service with the touch of a button on the thermostat or by using the mobile application on a cell phone or mobile device.

## What You Get

In the box, you will find the items shown in the following figure.



Item	Description
①	Cosmetic plate
②	Thermostat
③	Screws/anchors
④	Wall plate

Report missing or damaged components to:

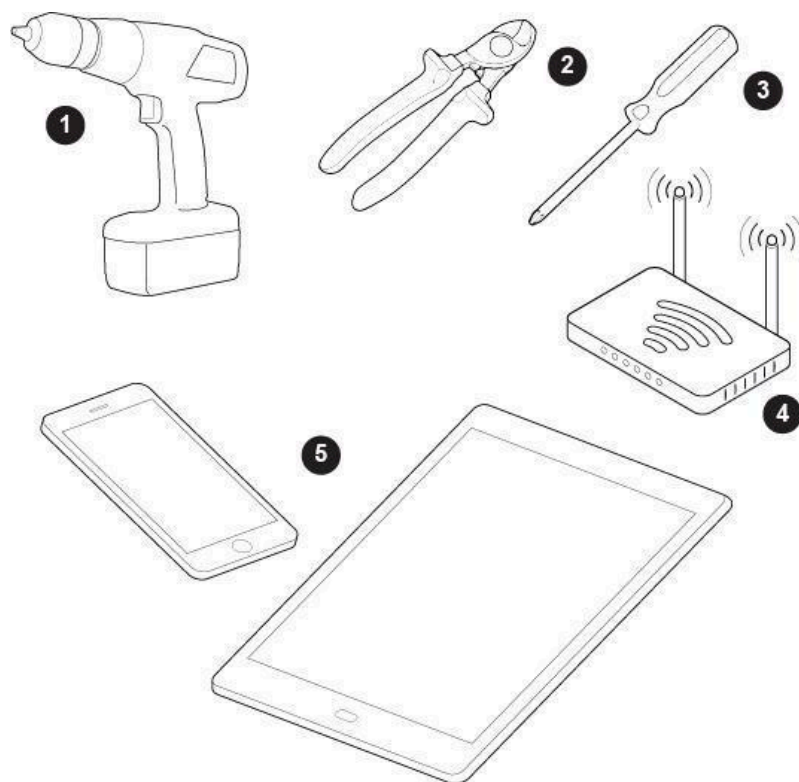
Nuve Controls LLC  
4051 E. La Palma Ave, Suite A Anaheim, California 92807

[info@nuvehome.com](mailto:info@nuvehome.com)

## What Else You Need

To complete the installation, you will need the items in the following figure.

## Nuve Thermostat Installation Guide



Item	Description
❶	Drill
❷	Electrical pliers
❸	Phillips screwdriver
❹	Wi-Fi network
❺	Smart device with internet browser

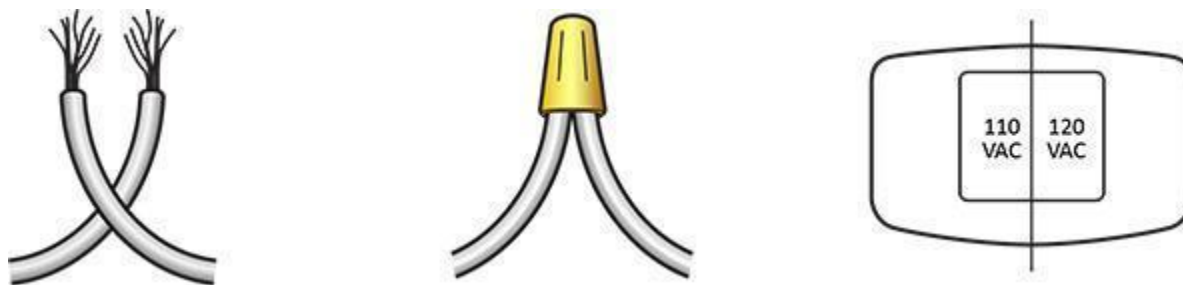
### Before You Begin

Make sure the heating and/or cooling system is working properly.

The Nuve smart thermostat is compatible with most 24-volt HVAC systems. Confirm that the HVAC unit is a 24-volt system by inspecting the existing thermostat, HVAC system wiring, or HVAC system documentation. If your existing thermostat has either of the following, the Nuve smart thermostat is **not** compatible with the HVAC system:

- Thick, stranded wires twisted together or connected with wire nuts
- A label inside the thermostat showing 110V or 120V

## Nuve Thermostat Installation Guide



For compatible HVAC systems, do the following:

1. Read this product Installation Guide.
2. Confirm that the heating and cooling system is operating properly.
3. Observe cautions and warnings.
4. Go to the home's breaker box, and then turn off the breaker switch that controls the home HVAC system. This will protect it during installation. Alternatively, you can turn off the Main power switch at the breaker box.

**Warning:** Failing to turn off the power before working with wiring can lead to serious injury or death.

### Step 1 - Mounting the Thermostat

To install the Nuve smart thermostat:

1. Confirm that power to the cooling and heating system is off. Change the temperature on the existing thermostat, and then verify that the system does not turn on.
2. Remove the existing thermostat or select a new mounting location.
3. Take a picture of the wire connections on the old thermostat. You may need to reference this photo later.
4. Pull the wires through the hole in the middle of the wall plate, and then attach the wall plate to the wall using the drywall anchors and screws provided.

Connect the HVAC wires to the wall plate – see Step 2 for more details

5. Mount the thermostat to the wall plate.
6. Install the cosmetic plate over the thermostat and wall plate so that the Up label is on top. This is important for proper airflow to cool the thermostat.

7. At the breaker box, turn on the HVAC circuit breaker or Main switch.



### Step 2 - Connecting the wires

**Checkpoint:** Do you have more than one R (red) wire? If yes, connect only the red wire that comes from the cooling transformer and leave the remaining red wires unconnected.



#### **WARNING**

NUVE is designed for 24V ac with up to 2A output current. Do not connect it to line (high) voltage or millivolt systems.

Connect the wires on the HVAC system according to the following instructions:

## Traditional Systems

See the wiring diagrams in [Appendix 1](#)

<b>1H/1C System</b> (Heating and cooling system with only stage 1)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor	Yellow
W1	Heat relay	White
<b>2H/2C System</b> (Heating and cooling system that has stage 1 and stage 2)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
W1	Heat relay stage 1	White
W2	Heat relay stage 2	White
<b>1H/2C System</b> (Heating and cooling system that has stage 1 heating and stage 1 and 2 cooling)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
W1	Heat relay stage 1	White
<b>3H/2C System</b> (Heating and cooling system that has stage 1,2 and 3 heating and stage 1 and 2 cooling)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
W1	Heat relay stage 1	White
W2	Heat relay stage 2	White
W3	Heat relay stage 3	White

## Heat Pump Systems

<b>1H/1C Heat pump System</b> (Heating and cooling system with only stage 1)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor	Yellow
O/B	Changeover valve	Orange or Brown
<b>1H/1C Heat pump System with Aux heat stage 1</b> (Heat pump that has 1 stage for heating/ cooling and 1 stage for auxiliary (emergency) heating) If W1(Aux 1) and W3(E) terminals driven together (1 wire for Aux)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
W3 (E) or W1 (Aux1)	Emergency / Aux Heat relay	White
O/B	Changeover valve	Orange or Brown
<b>1H/1C Heat pump System with Aux heat stage 1</b> (Heat pump that has 1 stage for heating/ cooling and 1 stage for auxiliary (emergency) heating) If W1(Aux 1) and W3(E) terminals NOT driven together (2 wires for Aux)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
W1 (Aux1)	Aux	White
W3 (E)	Emergency Heat relay	White
O/B	Changeover valve	Orange or Brown
<b>2H/2C Heat pump System</b> (Heating / cooling system that has stage 1 and stage 2)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24V ac Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
O/B	Changeover valve	Orange or Brown
<b>2H/2C Heat pump System with Aux heat stage 2</b> (Heat pump system that has 1 and 2 stages and 2 stages of Auxiliary (emergency) heating ) If W1(Aux 1) and W3(E) terminals are driven together (2 wires for Aux)		

## Nuve Thermostat Installation Guide

Terminal	Wire	Color (mostly)
<b>R</b>	Power	Red
<b>C</b>	24V ac Common	Blue
<b>G</b>	Fan relay	Green
<b>Y1</b>	Compressor stage 1	Yellow
<b>Y2</b>	Compressor stage 2	Yellow
<b>W2 (Aux2)</b>	Aux stage 2	White
<b>W3 (E) or W1 (Aux1)</b>	Emergency / Aux Heat relay	White
<b>O/B</b>	Changeover valve	Orange or Brown

## Dual Fuel Heating

See the wiring diagrams in [Appendix 1](#)

<b>2H/1C Heat pump with Auxiliary heating system</b> (Heat pump with stage 1 and auxiliary heating with stage 1)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24Vac Common	Blue
G	Fan relay	Green
Y1	Compressor	Yellow
W1 (Aux1)	Auxiliary	White
O/B	Changeover valve	Orange or Brown
<b>3H/1C Heat pump with Auxiliary heating system</b> (Heat pump with stage 1 and auxiliary with stage 1 and 2)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
W1 (Aux1)	Auxiliary stage 1	White
W2 (Aux2)	Auxiliary stage 2	White
O/B	Changeover valve	Orange or Brown
<b>4H/2C Heat pump with Auxiliary heating system</b> (Heat pump with stage 1 and 2 and auxiliary with stage 1 and 2)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
W1 (Aux1)	Auxiliary stage 1	White
W2 (Aux2)	Auxiliary stage 2	White
O/B	Changeover valve	Orange or Brown
<b>5H/2C Heat pump with Auxiliary System</b> (Heating system that has stage 1 and 2 and auxiliary stage 1, 2 and 3)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
Y1	Compressor stage 1	Yellow
Y2	Compressor stage 2	Yellow
W1 (Aux1)	Auxiliary stage 1	White



## Nuve Thermostat Installation Guide

<b>W2 (Aux2)</b>	Auxiliary stage 2	White
<b>W3</b>	Auxiliary stage 3	White
<b>O/B</b>	Changeover valve	Orange or Brown

### Cool Only Systems with Fan

<b>1C Cool only System</b> (Cooling system with only stage 1)		
<b>Terminal</b>	<b>Wire</b>	<b>Color (mostly)</b>
<b>R</b>	Power	Red
<b>C</b>	24VAC Common	Blue
<b>G</b>	Fan relay	Green
<b>Y1</b>	Compressor	White

<b>2C Cool only System</b> (Cooling system with stage 1 and stage 2)		
<b>Terminal</b>	<b>Wire</b>	<b>Color (mostly)</b>
<b>R</b>	Power	Red
<b>C</b>	24VAC Common	Blue
<b>G</b>	Fan relay	Green
<b>Y1</b>	Compressor stage 1	White
<b>Y2</b>	Compressor stage 2	White

## Heat Only Systems with Fan

<b>1H Heat only System</b> (Heating system with only stage 1)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
W1	Heat relay	White
<b>1H Heat only System with Emergency heating</b> (Heating system with only stage 1 and emergency heating)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
W1	Heat relay	White
W3	Emergency Heat relay	White
<b>2H Heat only System</b> (Heating system with stage 1 and stage 2)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
W1	Heat relay stage 1	White
W2	Heat relay stage 2	White
<b>2H Heat only System with Emergency heating</b> (Heating system with stage 1 and stage 2 and emergency heating)		
Terminal	Wire	Color (mostly)
R	Power	Red
C	24VAC Common	Blue
G	Fan relay	Green
W1	Heat relay stage 1	White
W2	Heat relay stage 2	White
W3	Emergency Heat relay	White

### Connecting Accessories (Humidifier/Dehumidifier(ventilator))

#### Legend

**T1P** – Terminal 1 powered connector

**T1N** - Terminal 1 neutral (short) connector

**T2** - Terminal 2 powered connector

Use terminals T1P with T1N, or T2 to connect accessories such as the humidifier or dehumidifier (ventilator)

**Checkpoint:** If the connected accessory device (such as a humidifier or ventilator) is powered by the HVAC internal transformer, use the T1P or T2 terminals (1 wire); otherwise, use both the T1P and T1N terminals (2 wires).

See the wiring diagrams in [Appendix 1](#)

### Stage Activation and System Shutdown Thresholds.

1st stage turns ON when temperature difference is 0.9F and more

2nd stage turns ON when temp difference is 1.9F and more

3rd stage turns ON when temp difference is 2.9F and more

The system turns OFF when:

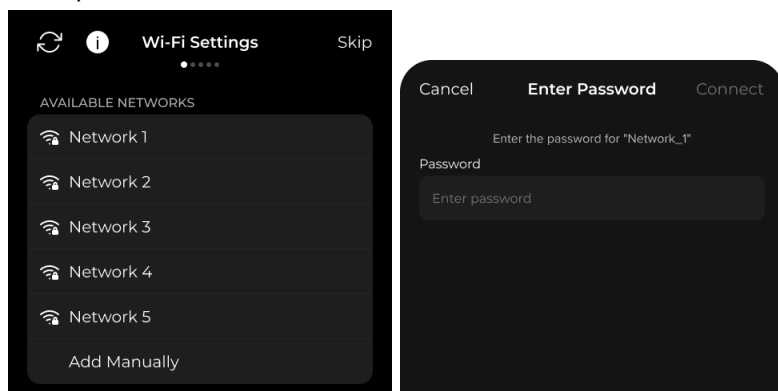
1. In cooling mode, the current temp gets lower than set temperature by 1F
2. In heating mode, the current temp gets higher than set temperature by 1F

### Step 3a – Connecting to the Network

When you apply power to the Nuve smart thermostat, the power-up sequence begins. The Backlight LEDs blink and you are navigated to the Wi-Fi settings page.

**Note:** In the unlikely event that the Nuve Smart Thermostat does not power up, confirm that power is present at the thermostat. If power is not present, troubleshoot the home electrical system. If power is present, contact the Nuve Support team.

1. In the Wi-Fi Settings page, review the available networks. Ask the customers for the Wi-Fi network and password. In the Wi-Fi Settings page, select the network, input the corresponding password, and then tap **Connect**.

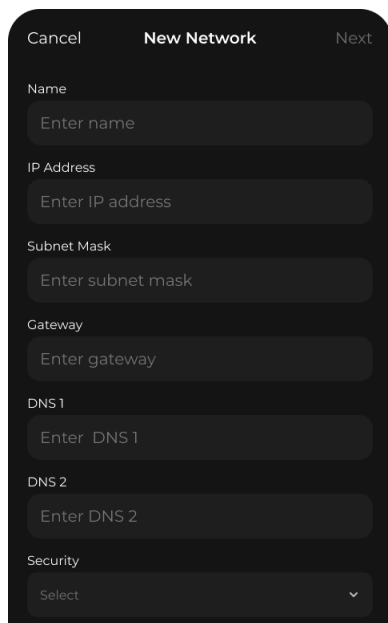


2. After successfully connecting to the network, tap the **Next** button at the top right corner to get navigated to the System Setup page – see [Step 4 - Setting Up the System](#).

### Connecting to an Unlisted Network

1. To connect to an unlisted network, tap **Add Manually**. In the Wi-Fi Settings page, enter the network settings, and then tap **Next**. You should now see the network on the Wi-Fi Settings page, Tap the network, and then tap **Connect** to proceed.

## Nuve Thermostat Installation Guide

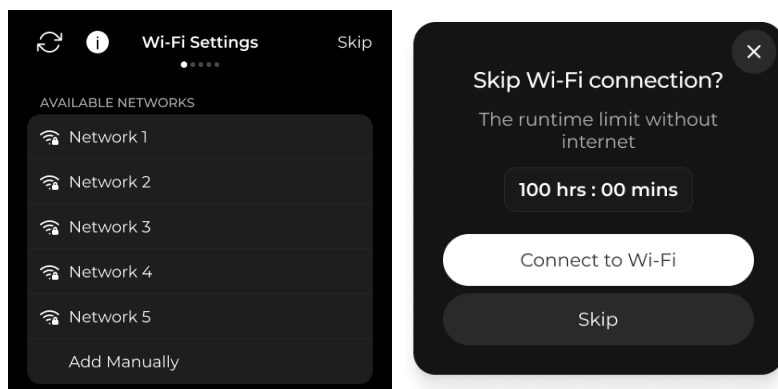


2. When prompted, enter the password required to connect to the Wi-Fi network you selected. For security, the system masks each password character with an asterisk (\*). To unmask the password, tap the show password icon.

### Step 3b - No Network Connection (No Wi-Fi) Flow

This step applies to scenarios where the device is installed in locations without internet access. It allows construction companies and similar entities to install Nuve thermostats in new buildings or other sites that lack internet connectivity or an end customer at the time of installation.

To prevent potential misuse of Nuve thermostats outside authorized control, the device operates with a 100-hour runtime limitation.



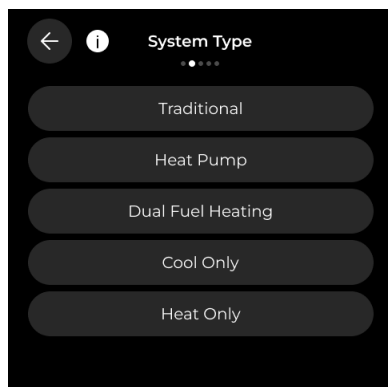
After mounting the thermostat, technicians can choose to skip the Wi-Fi connection setup by clicking the **Skip** button located at the bottom-right corner of the screen.

Selecting the **Skip** button triggers an informational pop-up explaining the limitations of using the thermostat without an internet connection. To confirm and proceed with the installation at a later time, technicians must click the **Skip** button on the pop-up.

In this case the System will not ask to provide the email address and Zip code, those will be asked later when the user connects the thermostat to the Wi-Fi network.


### Step 4 - Setting Up the System

1. In the System Setup page, tap **System Type**.

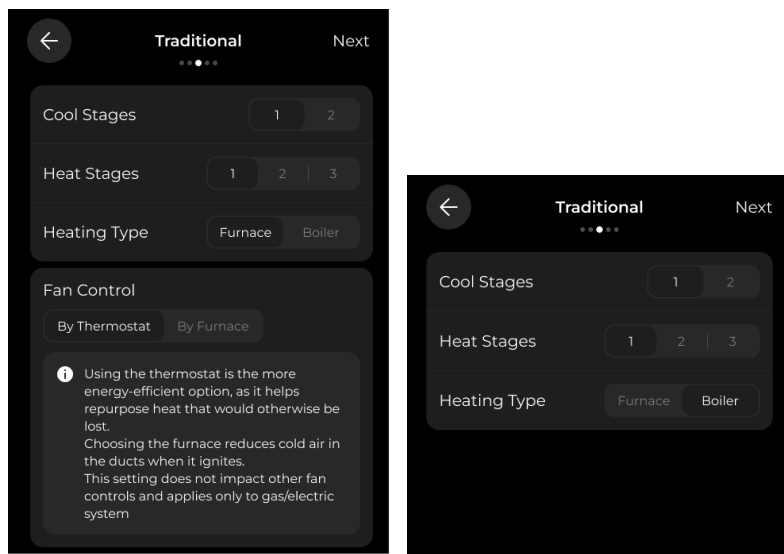


In the System Type page, tap the one of the following options that matches the system for which you are installing the thermostat:

#### Traditional

Choose this option for traditional HVAC systems with split systems for heating and cooling. In the Traditional page, select the appropriate values for Cool Stages and Heat Stages, and then tap :

- **Cool Stages:** Select either 1 or 2 cooling stages.
- **Heat Stages:** Select 1, 2, or 3 heating stages.
- **Heating Type selection:** Select either Furnace or Boiler
- **Fan Control selection:** Activated when Furnace is selected and contains the following options: By Thermostat and By Furnace



### Heat Pump

Select this option for a single heat pump system which provides both heating and cooling. In the Heat Pump page, select the appropriate emergency heating in case your heat pump has such. Specify the heat pump stages 1 or 2, and select O/B on State to specify whether the reversing valve should energize on cool or on heat.

#### Thresholds for Heat Pump

- **Set Minimum Runtime for Auxiliary Heat**

This allows to define the minimum time the auxiliary heat must run during a call for heat. Incorrect runtime settings can lead to system damage, so caution is advised. Default value - 2 mins.

- **Emergency Heat Activation**

The emergency heat can manually be activated from the System Mode menu.



- **Auxiliary and Heat Pump Work in Parallel**

## Nuve Thermostat Installation Guide

This refers to cases when a system uses a backup heating source (Aux), such as electric resistance heating, to supplement the heat pump when it cannot reach the desired temperature on its own—typically due to very cold outdoor conditions. If the **"Yes"** option is selected, the auxiliary heating will activate in parallel with the running heat pump if the heat pump cannot reach the set temperature within 10 to 20 minutes (depending on the heat pump type).

- **Run the air-handler fan alongside auxiliary heat**

If **"No"** is selected for *Auxiliary and Heat Pump Work in Parallel*, the system reveals this additional setting. It allows you to choose whether the fan should run with auxiliary heat in heat pump systems. This supports setups where certain auxiliary heat types (e.g., hydronic) do not require fan operation, improving compatibility and energy efficiency.

- **Driving W1(Aux) and W3 (Emergency) terminals together**

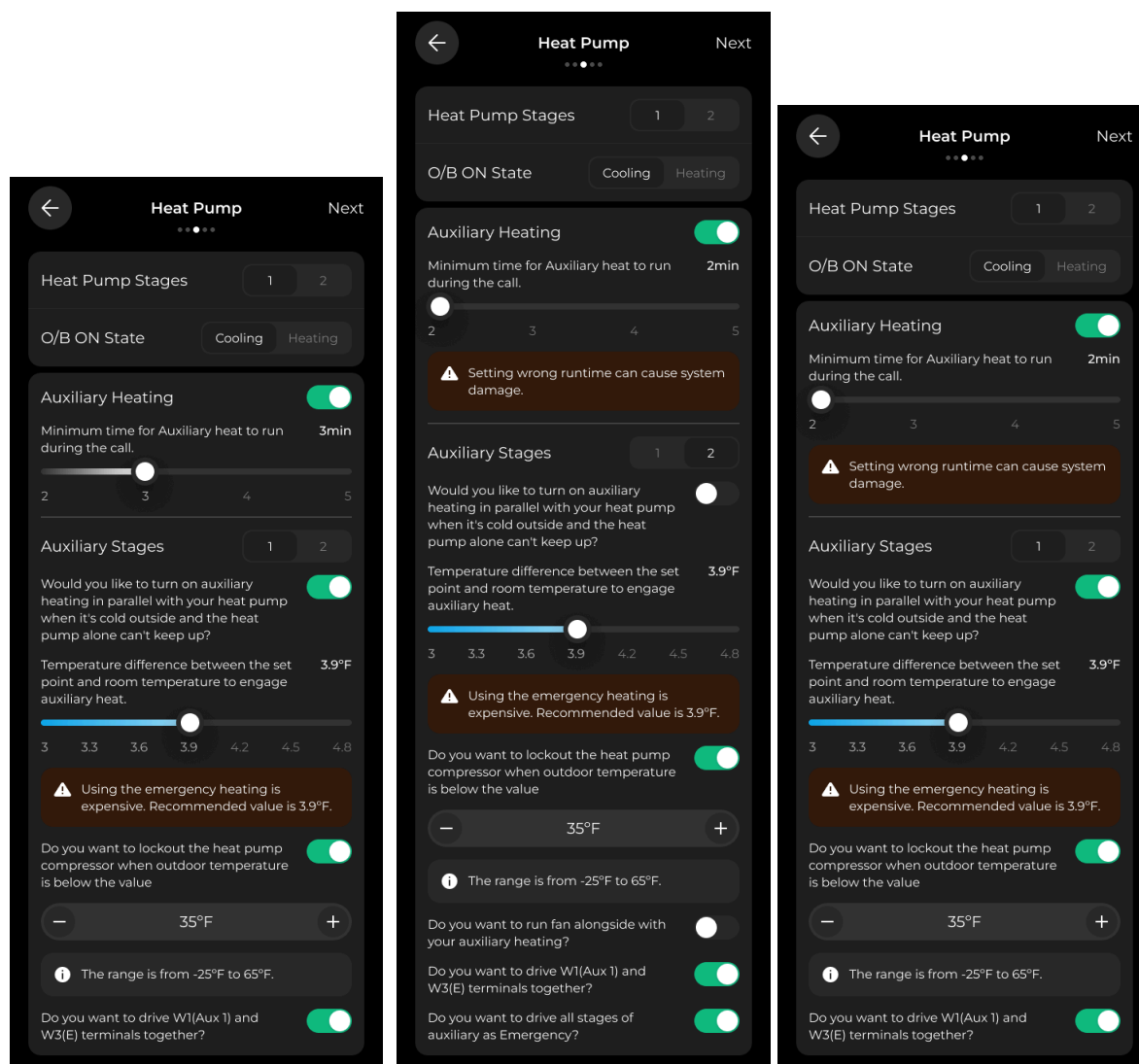
Select the **"Yes"** option in case you have connected the Aux and Emergency wires together and have 1 wire for both. Otherwise select **"No"** - See the Wiring list for Heat Pumps for more details

- **Driving all stages of auxiliary as Emergency**

If the HVAC system is equipped with 2 stage Auxiliary heating select the Auxiliary stage 2 and then select if you would like to energize the both stage 1 and stage 2 heating elements a Emergency when it is selected manually in the System Mode menu.



## Nuve Thermostat Installation Guide



### Dual Fuel Heating

A dual fuel heating system combines a heat pump with an auxiliary heating element (furnace, boiler or other). Specify the heat pump related parts by selecting the appropriate emergency heating in case your heat pump has such. Specify the heat pump stages 1 or 2, and select O/B on State to specify whether the reversing valve should energize on cool or on heat.

Set a temperature point to turn on the furnace for heating when the outdoor temp is below that.

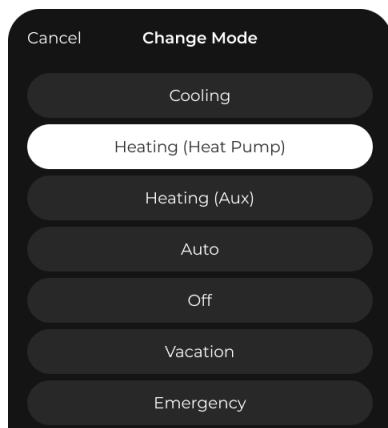
#### Thresholds for Dual Fuel Heating

- **Heating Type selection:** Select either Furnace or Boiler
- **Fan Control selection:** Activated when Furnace is selected and contains the following options: By Thermostat and By Furnace

## Nuve Thermostat Installation Guide

You are prompted to decide if they want the thermostat to automatically switch to auxiliary heat.

- **Yes:** The auxiliary heating system will automatically switch on when the primary heat pump is unable to maintain the desired temperature.
- **No:** The system will require manual intervention to activate auxiliary heat and also the option to select the heating type like Heat Pump or Auxiliary during Auto and Vacation modes.  
The selected heat type will stay as a default until manually changed from the system setup.



### For Yes case:

- **When the automatic switch-over is selected, you can also set an outdoor temperature threshold (Compressor lockout).**

This determines when the auxiliary heat should activate based on the outdoor temperature. The user can choose between -25°F and 65°F range or turn it **Off** when off is selected in the threshold.

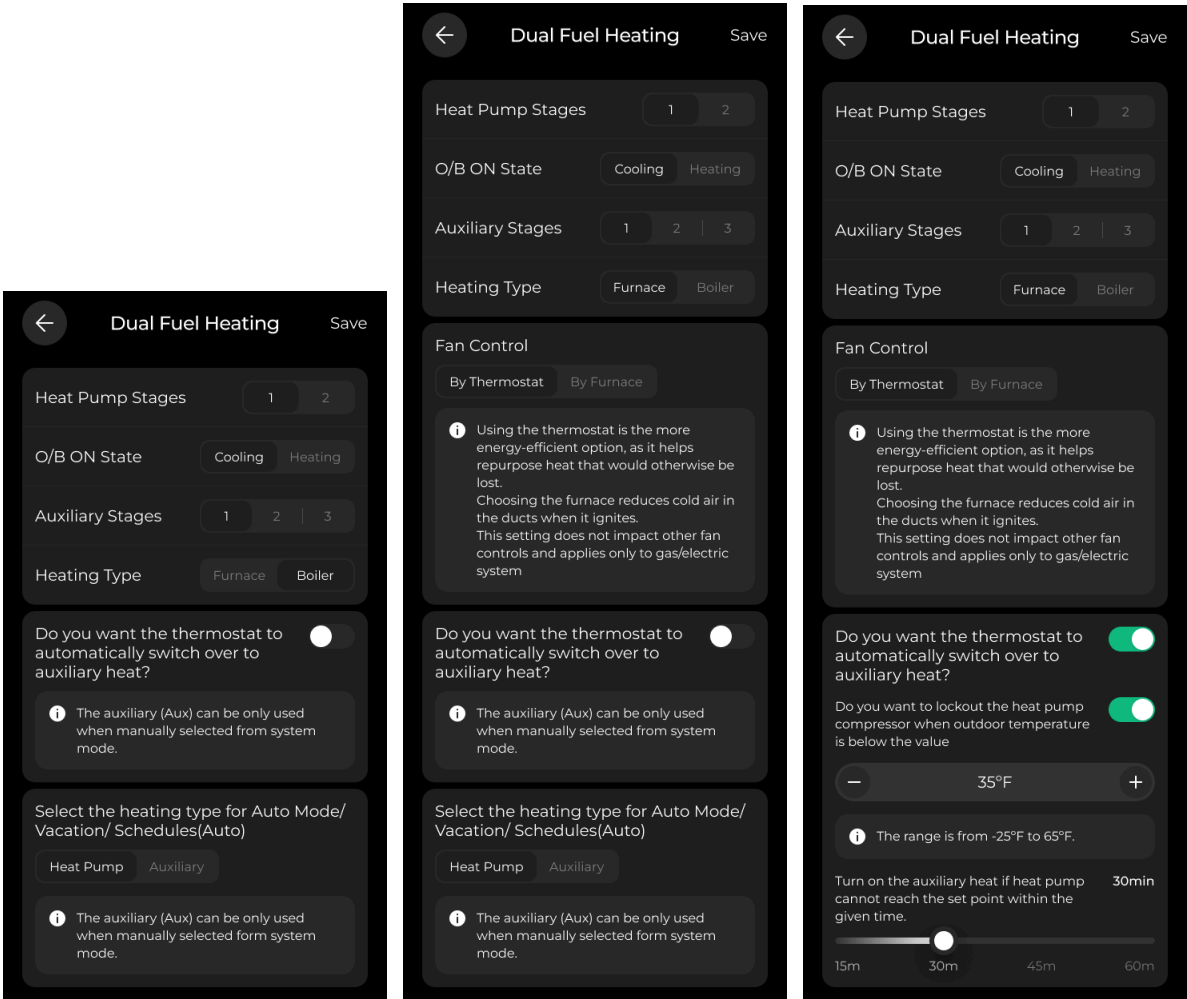
- **Turn on the auxiliary heat if the heat pump cannot reach the set point within the given time.**

If the **heat pump fails to raise the temperature** toward the set point within the defined time (default **30 minutes**, adjustable in **15-minute steps** from **15 to 60 minutes**), the system automatically switches to Aux heat. It helps maintain comfort during colder weather when the heat pump alone is not sufficient.

### For No case:

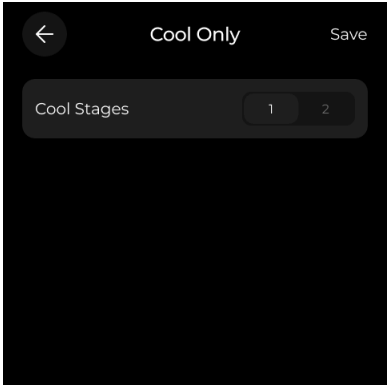
- Please select the heating type for Auto Mode/Vacation/Schedules (Auto). This defines how heating will operate in above mentioned modes when the thermostat is in manual control.

# Nuve Thermostat Installation Guide



## Cool Only

Select this option for air conditioning only systems. In the Cool Only page, select the appropriate stage.

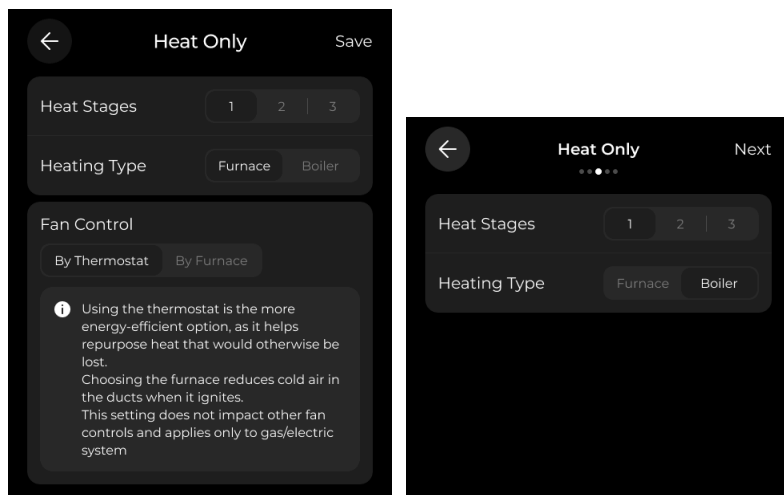


## Heat Only

## Nuve Thermostat Installation Guide

Select this option for heating-only systems. In the Heat Only page, select

- **Heat Stages:** Select 1, 2, or 3 heating stages.
- **Heating Type selection:** Select either Furnace or Boiler
- **Fan Control selection:** Activated when Furnace is selected and contains the following options: By Thermostat and By Furnace



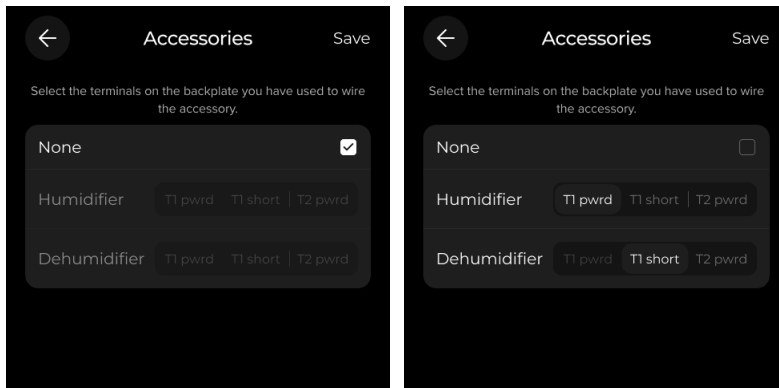
3. In the System Setup page, tap **System Stages** to manage the stages and operating parameters for the selected system type. Two-stage furnaces have low and high options, while three-stage furnaces have low, medium, and high settings.

System Type	Stages
Traditional	Cool Stages
	Heat Stages
Heat Pump	Emergency Heating
	Heat Pump Stages
	O/B on State
Dual Fuel Heating	Emergency Heating
	Heat Pump Stages
	O/B on State
	Set outdoor temp to turn on furnace -
Cool Only	Cool Stages
Heat Only	Heat Stages

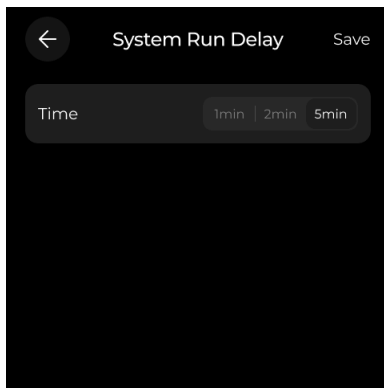
3. If your system has a humidifier or a dehumidifier, in the System Setup page, tap **Accessories** to specify the humidifier/dehumidifier characteristics depending on the connected wires:

## Nuve Thermostat Installation Guide

- a. **T1 pwr**: Select this option if the accessory is powered by HVAC and the corresponding wire is connected to the T1P terminal, (see Figure 1)
- b. **T1 short**: Select this option if the accessory has its own power and the corresponding two wires are connected to T1P and T1N terminals.
- c. **T2 pwr**: Additional, should be selected in case the corresponding T2 wire connection



4. To set a system run delay time, in the System Setup page, tap **System Run Delay**. In the System Run Delay page, tap the delay time: **1min**, **2min**, **5min**.

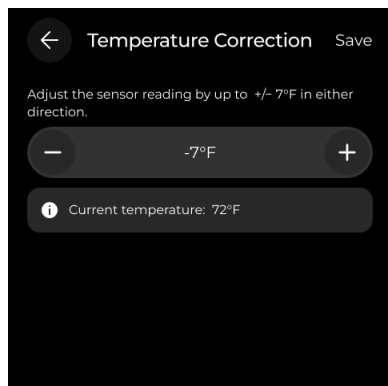


5. If you need to adjust the temperature later, go to **Menu > Settings > System Setup > General Threshold**.

### Temperature Correction

Allows users to manually adjust the thermostat's internal temperature reading by up to  $\pm 7^{\circ}\text{F}$ . This is useful when the displayed temperature does not match the actual room temperature due to placement or airflow factors.

The feature is Located in Menu → Settings → System Setup → General Thresholds

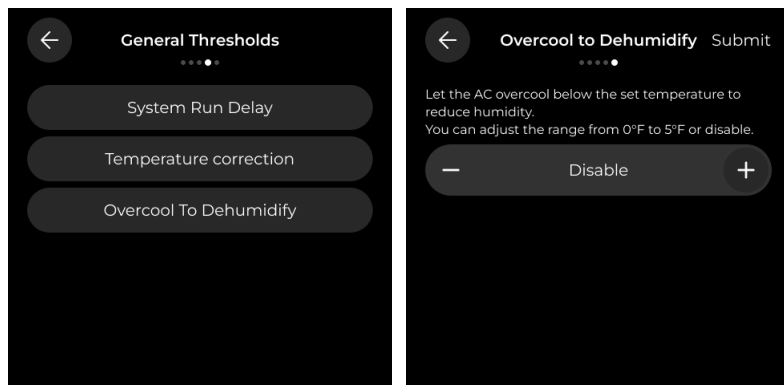


### Overcool to Dehumidify

Allows the AC to overcool in order to reduce humidity.

This can be configured via Menu → Settings → System Setup → General Thresholds.

The range is from 'Disable' to 5°F, adjustable in 1°F increments



## Step 5 – Authorizing the Device to Nuve System

After System setup is finished, the Technician will be automatically navigated either to Job number input page or to Customer details manual input page

### Contractors with active CRM System Integration

1. Contractors with an active CRM System integration with Nuve will be directed to the Job Number page to enter the CRM System Job Number. After entering the Job Number, they must click the 'Check' button. Using the CRM System Integration API, customer information such as email, zip code,

## Nuve Thermostat Installation Guide

and full name will be automatically populated on the device. Technicians have the option to edit both the email and zip code fields.

**Note: Based on CRM System Integration API we also get the Address of the Customer and keep it in our DB for later reflection in the Web Application - Customers page**

Alternatively, technicians can skip the Job Number entry by clicking the 'Skip' button, which will navigate them to the manual customer details input flow.

The first screenshot shows the 'ServiceTitan Job #' screen with a 'Skip' button. The second screenshot shows the 'ServiceTitan Job #' screen with the job number '18567' entered and the 'Check' button highlighted. The third screenshot shows the 'Customer Details' screen with the full name 'John Doe' entered and the 'Next' button highlighted.

**Note: Full Name of the Customer is not editable**

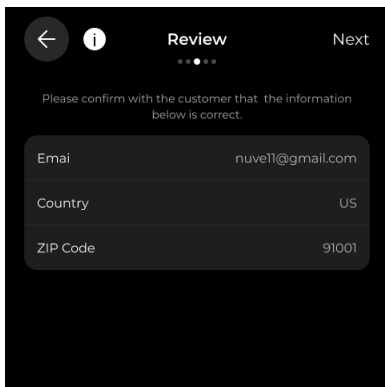
### Contractors with no CRM System Integration

2. If the contractor does not have an active CRM System integration with Nuve, they will be automatically directed to the Customer Details page, where they must select the country and manually input the customer's email and ZIP code.

The first screenshot shows the 'Customer Details' screen with the email field, country dropdown (US), and zip code field. The second screenshot shows the 'Customer Details' screen with the email field, country dropdown (US), and a list of countries (US, Canada) with a checkmark next to US.

3. After providing the customer details, the technician clicks the 'Next' button to navigate to the Review page. Here, they can review the information with the customer and, if necessary, edit the email and ZIP code.

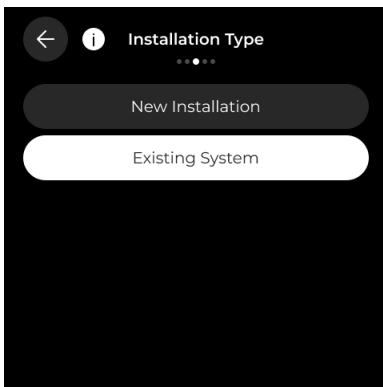
## Nuve Thermostat Installation Guide



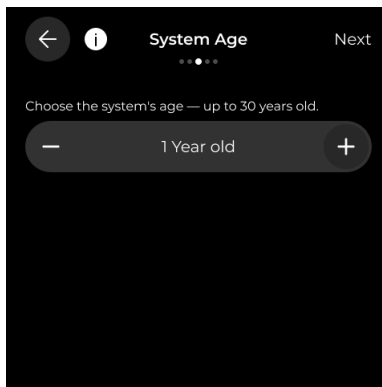
The 'Review' screen displays a confirmation prompt: 'Please confirm with the customer that the information below is correct.' Below this, there are three input fields: 'Email' with the value 'nuve11@gmail.com', 'Country' with the value 'US', and 'ZIP Code' with the value '91001'. The screen includes a back arrow, an information icon, and a 'Next' button.

- Once the customer details are confirmed, the technician is directed to the **Installation Type** page. Based on the selection — **New Installation** or **Existing System** — the technician may be required to indicate the approximate age of the HVAC system.

If **New Installation** is selected, the system age will default to **0 years**, and the technician will not be prompted to select a value.

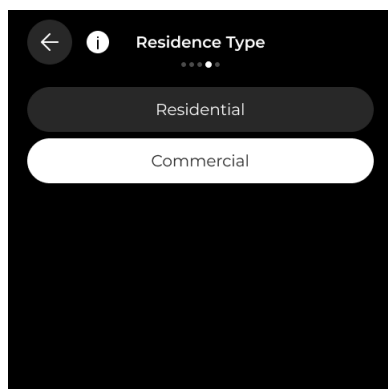


The 'Installation Type' screen shows two selectable options: 'New Installation' and 'Existing System'. The 'Existing System' option is currently selected and highlighted. The screen includes a back arrow, an information icon, and a progress indicator.



The 'System Age' screen prompts the user to 'Choose the system's age — up to 30 years old.' It features a slider control currently set to '1 Year old', with minus and plus buttons for adjustment. The screen includes a back arrow, an information icon, and a 'Next' button.

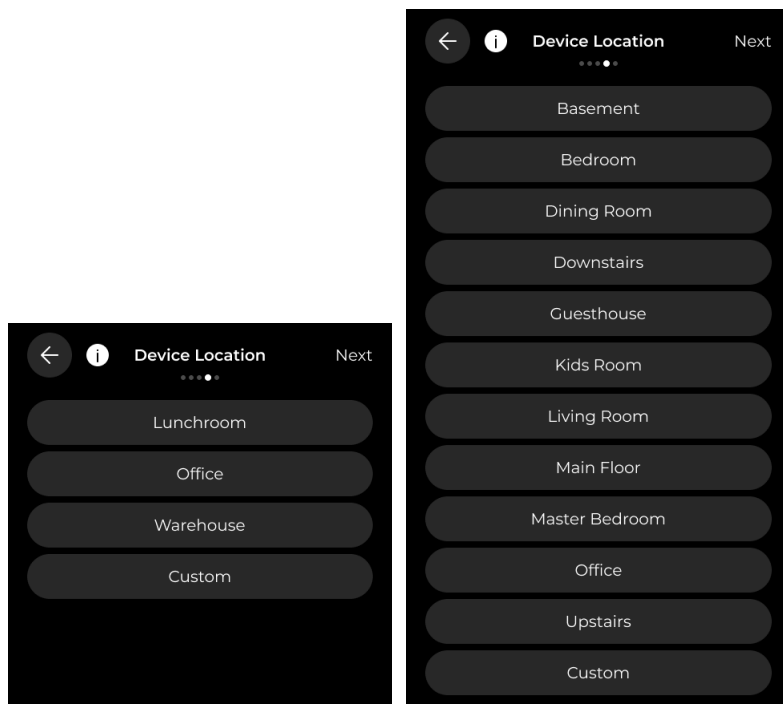
- On the next step Technician should select the Residence Type page. Depending on the selected residence type, the technician is then directed to the corresponding Device Location page.



The 'Residence Type' screen shows two selectable options: 'Residential' and 'Commercial'. The 'Commercial' option is currently selected and highlighted. The screen includes a back arrow, an information icon, and a progress indicator.

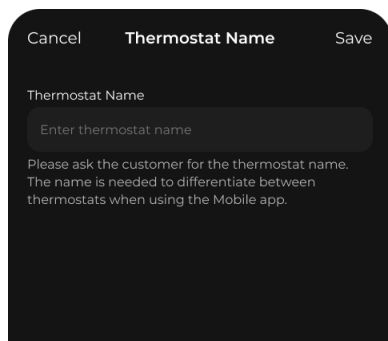


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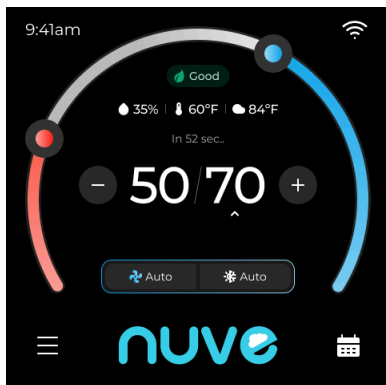


**Note: Device location page (number of options) varies based on selected prior Residence Type (Residential or Commercial)**

6. If the “Custom” option is selected on the Device Location page, the technician can enter a custom name for the thermostat. This name is required to differentiate between thermostats when using the mobile app.



7. After tapping the 'Submit' button, the main screen on the thermostat will appear, and an email with instructions to set up a password will be sent to the email address entered on the Customer Details page. Customers will use this password to log in and access the mobile application, allowing them to control the smart thermostat over the internet.



### Need Assistance?

For wiring diagrams, videos, and other helpful instructions and examples, please visit [https://Nuvehome.com/installation\\_guide](https://Nuvehome.com/installation_guide). You can also use the QR code under the packaging lid to go to the Nuve website.

### Troubleshooting

In case you're experiencing difficulties with your thermostat, we've compiled a list of suggestions to help you troubleshoot the issue. The majority of problems can be swiftly and effortlessly rectified using these steps

#### Display is not showing information (black screen):

- Confirm the circuit breaker status and reset it if required.
- Ensure the power switch for the heating and cooling system is activated.
- Check that the furnace door is securely closed.

#### Lack of response from heating or cooling system:

- To activate the heating system, press the System Mode button in the Menu. Set the desired temperature higher than the current indoor temperature.
- To activate the cooling system, press the System Mode button (see the [Setting the System Mode](#) section). Ensure the desired temperature is set lower than the current indoor temperature.
- Examine the circuit breaker and perform a reset if necessary.
- Ensure the power switch for the heating and cooling system is turned on.
- Confirm the furnace door is securely closed.
- Allow a waiting period of 3 to 5 minutes for the system to initiate a response.

## Nuve Thermostat Installation Guide

### Inability to adjust temperature settings:

- Ensure that the heating and cooling temperature settings are within acceptable ranges.

### Flashing "snowflake" or "sun" indicator on main screen:

- The compressor protection feature is engaged. Wait for 2-5 minutes to allow a safe restart of the system, preventing compressor damage.

### Incorrect heating or cooling behavior:

- For heat pump systems, validate that wires are connected right. Refer to the "Wiring" Section in the NUVE Installation Guide ([https://nuvehome.com/installation\\_guide](https://nuvehome.com/installation_guide))

If you still have questions, please contact the Nuve support team via <https://Nuvehome.com/support>.

## Alerts and Notifications

Alerts and notifications appear on the Main screen of the thermostat to get more details about the alert or notification click info button.

Alert		Definition	Resolution
Bad air quality		High CO2 equivalent detected.	Consider to ventilate the room
Temperature Malfunction	Sensor	Sensor malfunction: inaccurate temperature data.	Ensure the thermostat is properly placed away from direct sunlight, heat sources, or drafts.
System Efficiency		The system efficiency alert triggers when the system is struggling to heat or cool the room. For example if there is a need to cool the room instead the temperature goes up or remains stable or the vice versa.	Check and replace your air filter if dirty Make sure vents are open and unobstructed Make sure you do not have open windows and doors to affect temperature rising or dropping If using a heat pump, consider switching to <b>Auxiliary Heat</b> during very cold weather Restart the thermostat or system if recently modified Contact your HVAC contractor for a system checkup
Humidity Malfunction	Sensor	Sensor malfunction: inaccurate humidity data.	Verify that the thermostat is positioned correctly, avoiding areas prone to moisture or extreme dryness.
Air quality Malfunction	Sensor	Sensor malfunction: inaccurate or no data was sent.	Ensure proper ventilation in the area to prevent CO2 buildup that might affect sensor readings.
Incorrect Wiring Connection		Wiring problem causing sensor malfunction.	Carefully inspect the thermostat's wiring connections to ensure they are correctly matched according to the wiring diagram provided in the installation manual. If any wires are found to be improperly connected, contact your service provider.
No Internet Connection		No internet connection available for thermostat.	Verify that the Wi-Fi network is functional and that the thermostat's network settings are correctly configured. Restart the router to ensure it's functioning properly and try connecting the thermostat again. If the problem persists, try resetting the thermostat's network settings and set up the connection again.

## Nuve Thermostat Installation Guide

No Wi-Fi Connection	Thermostat lost Wi-Fi connection: needs reconnection.	Access the thermostat's settings to reconnect it to the Wi-Fi network by following the manufacturer's instructions. If the thermostat still doesn't connect, consider resetting the thermostat's network settings and setting up the Wi-Fi connection from scratch. Ensure that the thermostat is within range of a stable Wi-Fi signal.
Incorrect Password	Incorrect password entered, try again.	Ensure that you're entering the correct password for the thermostat. Pay attention to capitalization, special characters, and any possible typos.
High Temperature	High Temperature	To prevent home damage due to excessive heat you will be alerted if the temperature in the home is above this level.
Low Temperature	Low Temperature	To prevent home damage due to freezing you will be alerted if the temperature in the home is below this level.
High Humidity	High Humidity	Sets the percentage of relative humidity at which your thermostat will generate a Low/High Humidity Alert.
Low Humidity	Low Humidity	
Aux running too long	Auxiliary heating is running non stop for 1 hour, if this is normal for your HVAC system ignore the alert, otherwise please contact your Contractor	Alerts you if the Auxiliary heat source runs for more than 1 hour non stop it can mostly be a reason when HVAC is not working fine or because of cold weather outside.

## Warranty replacement

In the rare event that you need to replace your thermostat under warranty, follow these steps to clone a new Nuve thermostat:

1. After setting up the HVAC system (System Type, Stages, Accessories, and Run Delay Time), the technician is navigated either to the Job Number input page (for contractors with active CRM System integration) or to the Technician Details page (for contractors without CRM System integration).
2. Both the Job Number and Technician Details pages feature a 'Warranty Replacement' button, which directs the technician to a page where the device's serial number (S/N) is automatically populated in the 'New S/N' field.
3. To replace a damaged thermostat under warranty, the technician must enter the serial number (S/N) of the damaged thermostat in the 'Old S/N' box below. Afterward, they can click the 'Replace' button to proceed with cloning the old device's settings to the newly installed device.

## Nuve Thermostat Installation Guide

The image displays four screenshots of the Nuve thermostat mobile app interface:

- ServiceTitan Job #:** A screen with a back arrow, an information icon, and a 'Skip' button. It contains a 'Job Number' field with a 'Check' button. Below the field, instructions state: 'Enter the ServiceTitan Job number and click "Check" to auto-fill the fields. If you don't have one, click "Skip."' A 'Warranty Replacement' link is at the bottom.
- Customer Details:** A screen with a back arrow, an information icon, and a 'Next' button. It contains an 'Email' field, a 'Country' dropdown menu (set to 'US'), and a 'Zip Code' field. Below these fields, it states: 'Email will be used as a Mobile App login credential.' and a 'Warranty Replacement' link.
- Warranty Replacement:** A screen with 'Cancel', 'Warranty Replacement', and 'Replace' buttons. It contains instructions: 'To replace the damaged thermostat under warranty, enter the serial number (S/N) of the damaged thermostat in the "Old S/N" box below. Then click "Replace" to proceed.' It has an 'Old S/N' field and a 'New S/N' field with the value '01-224-000105'.
- Success!:** A confirmation screen with a close button (X) in the top right. It displays the message: 'The new thermostat has successfully integrated into the system' and an 'Ok' button.

## Product Specifications

### Temperature Ranges

Heat: 65 °F to 85 °F (18.3 °C to 29.4 °C)

Cool: 65°F to 85 °F (18.3 °C to 29.4 °C)

### Working Ambient Temperature

39 °F to 120 °F (3.9°C to 48.9 °C)

### Shipping Temperature

-20 °F to 120 °F (-28.9 °C to 48.9 °C)

### Operating Relative Humidity

5% to 90% (non-condensing)

### Physical Dimensions

4.68 inches (H) x 4.68 inches (W) x 1.53 inches (D)

119 mm (H) x 119 mm (W) x 39 mm (D)

### Electrical Ratings

Terminal	Voltage	Running Current
<b>W1</b> Heat relay stage 1	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>W2</b> Heat relay stage 2	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>W3</b> Heat relay stage 3	8 V ac - 40 V ac	0.02 A –0.5 A
<b>Y1</b> Compressor Stage 1	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>Y2</b> Compressor Stage 2	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>G</b> Fan	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>O/B</b> Changeover	8 V ac - 40 V ac	0.02 A - 1.0 A
<b>T1P</b> Relay for accessories (powered)	8 V ac - 40 V ac	0.02 A –0.5 A
<b>T1N</b> Relay for accessories (neutral)	8 V ac - 40 V ac	0.02 A –0.5 A
<b>T2</b> Relay for accessories (optional, powered)	8 V ac - 40 V ac	0.02 A –0.5 A

## Regulatory/Compliance

### Regulatory Information

#### EMC Compliance

This device and accessories have demonstrated Electromagnetic Compatibility (EMC) compliance under conditions that included the use of compliant peripheral devices between system components. It is important that you use compliant peripheral devices between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

#### FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operations.

Nuve Control LLC, located at 4051 E. La Palma Ave. Suite A Anaheim, CA 92807

, is responsible for FCC compliance. The Federal Communications Commission regulations provide that changes or modifications not expressly approved by Nuve could void your authority to operate this equipment.

#### Radio Frequency Exposure

Maintain a distance of 8 inches (20cm) from your body to be consistent with how the device is tested for compliance with RF exposure requirements.

### Safety

This device contains a non-serviceable battery for the watch. Do not attempt to service or replace this battery. Contact your service contractor in case of issues.

### Warranty Information

5-year limited warranty

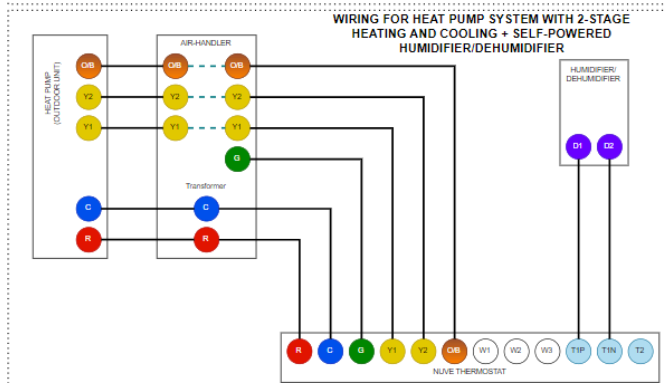
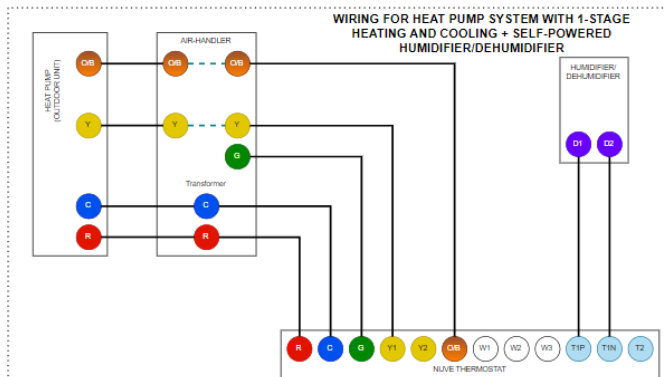
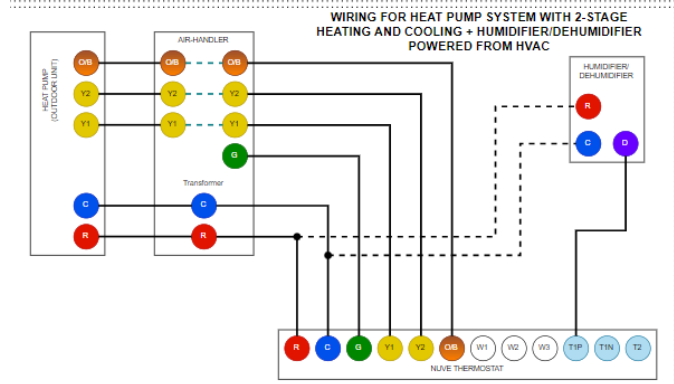
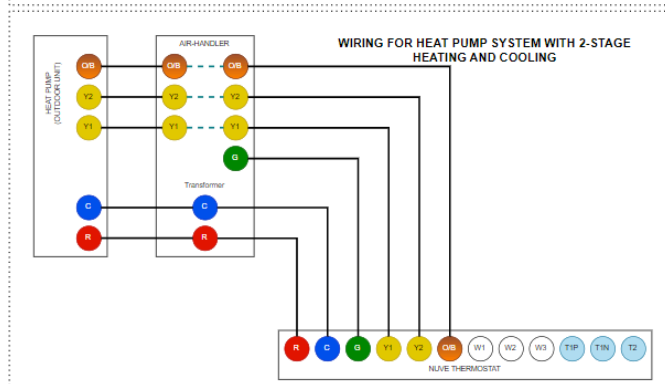
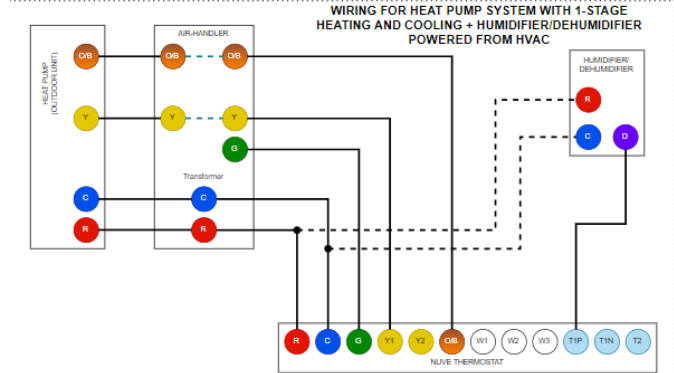
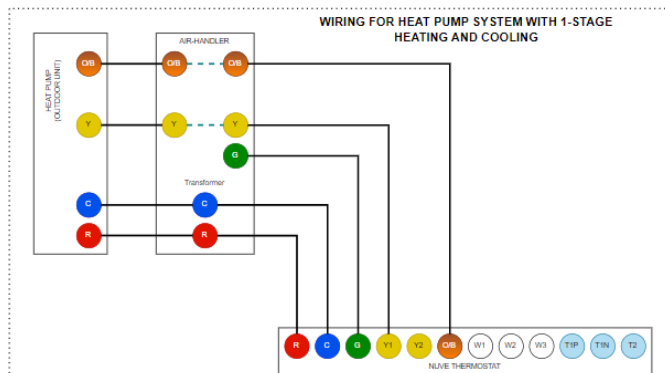
For detailed warranty information, please visit <https://nuvehome.com/warranty>

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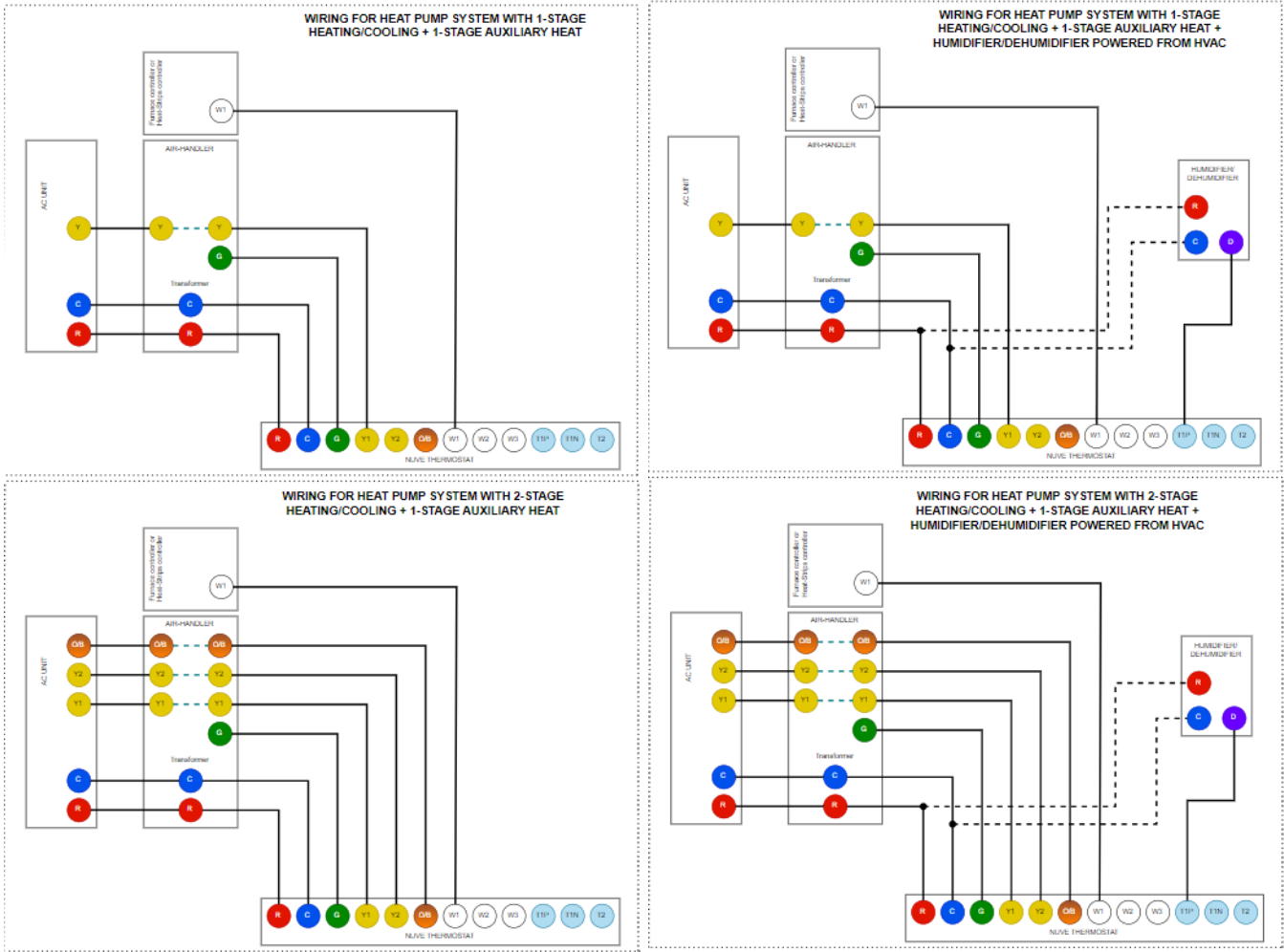
## Appendix 1 - Wiring diagrams

### Heat-Pump Systems

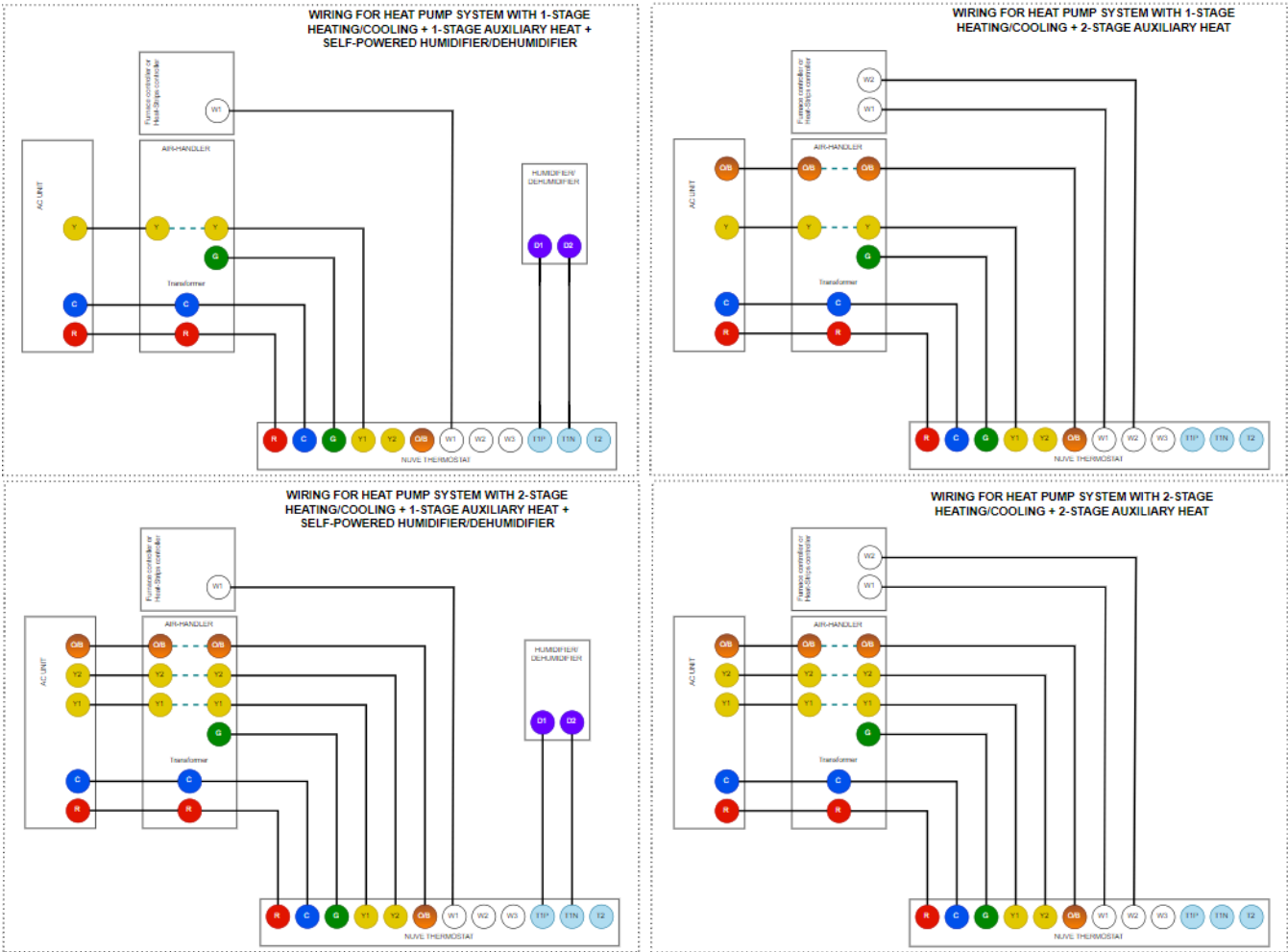


# Nuve Thermostat Installation Guide

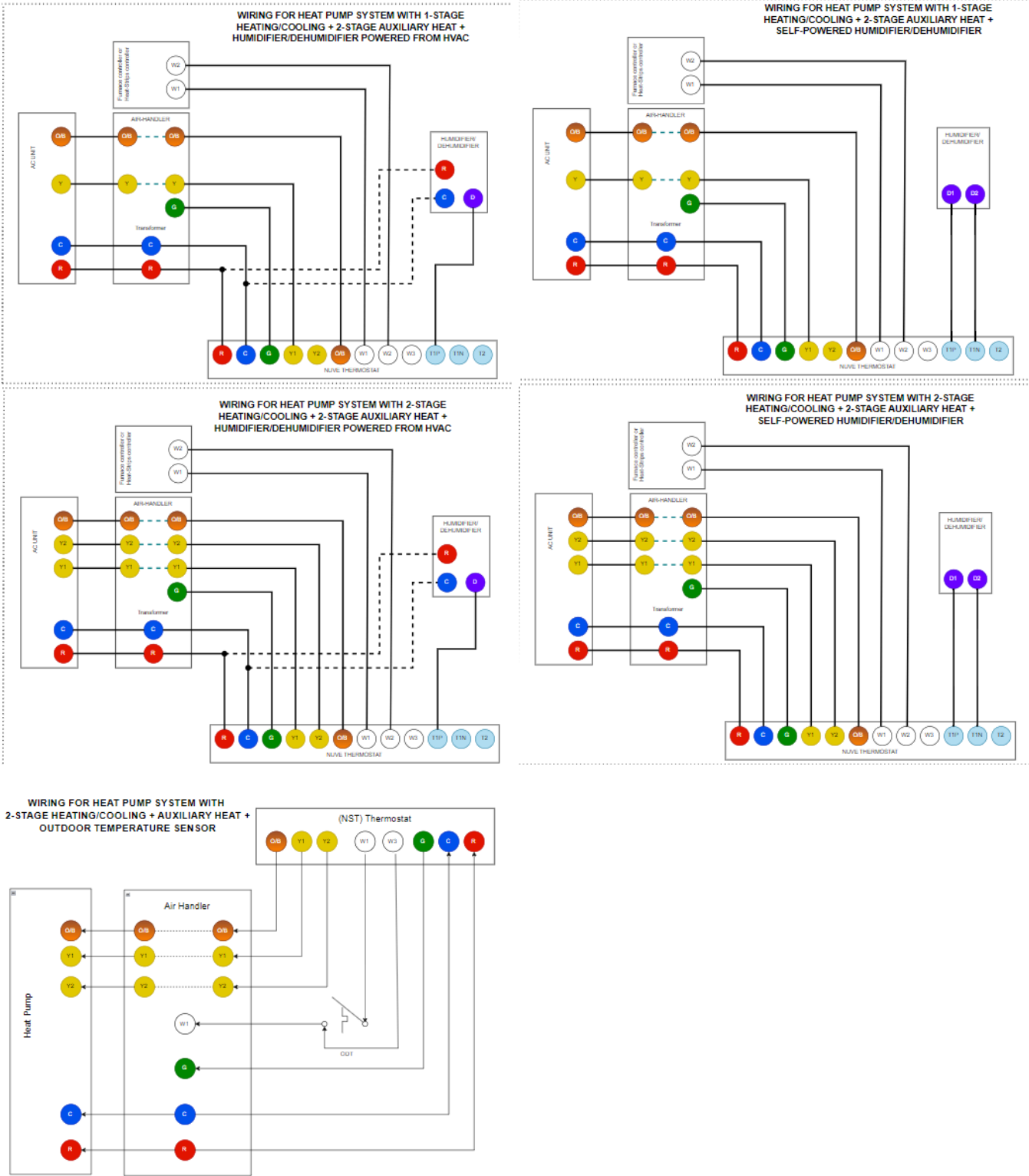
## Heat-Pump + AUX Systems



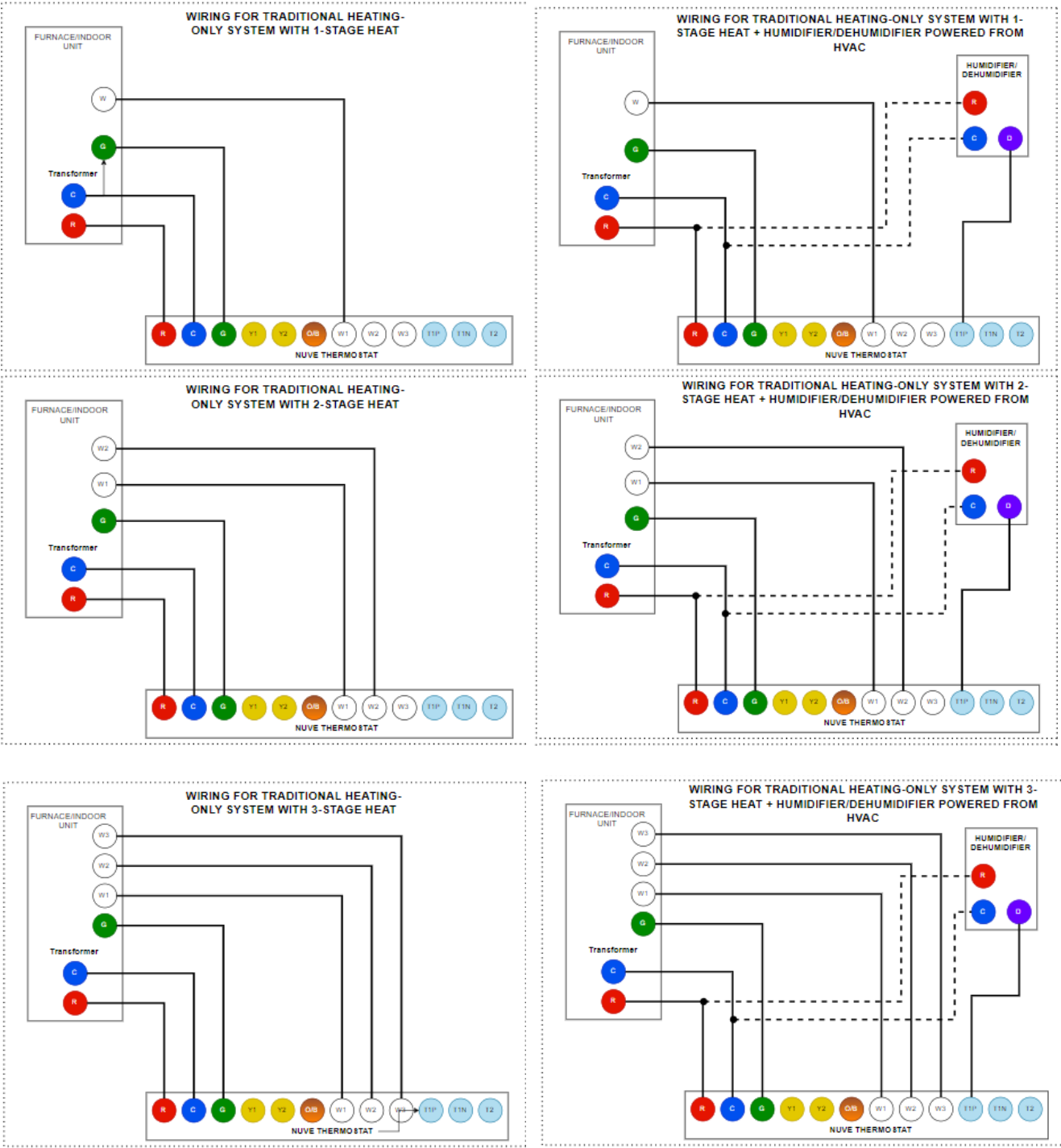
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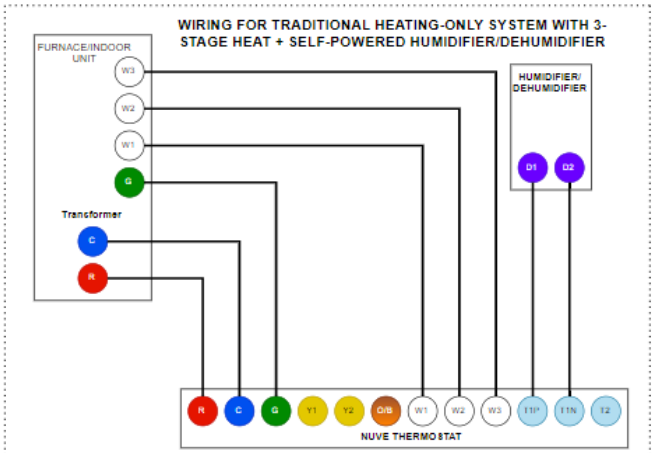
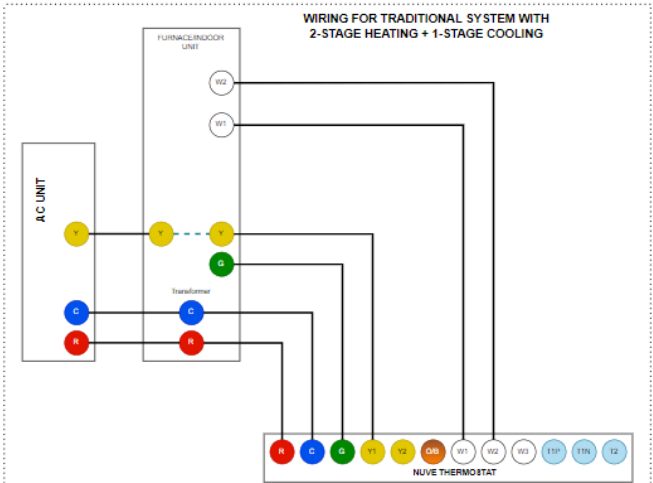
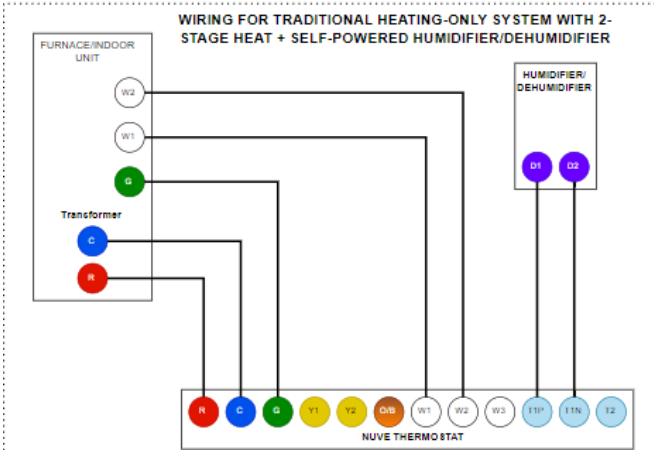
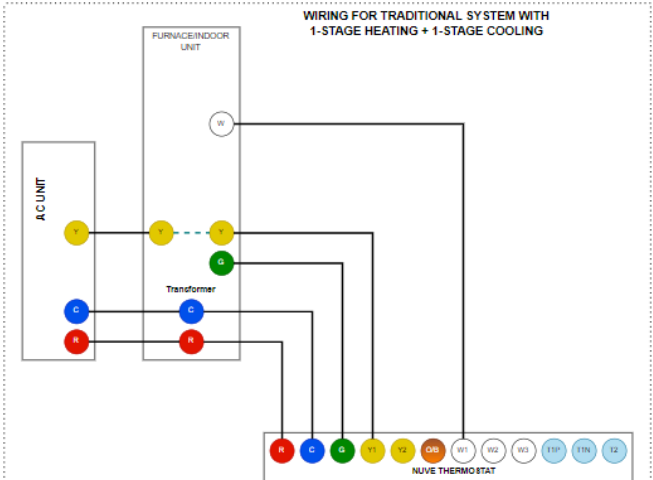
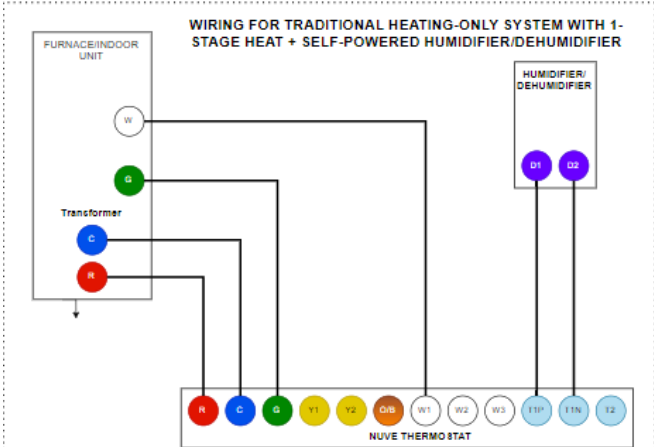
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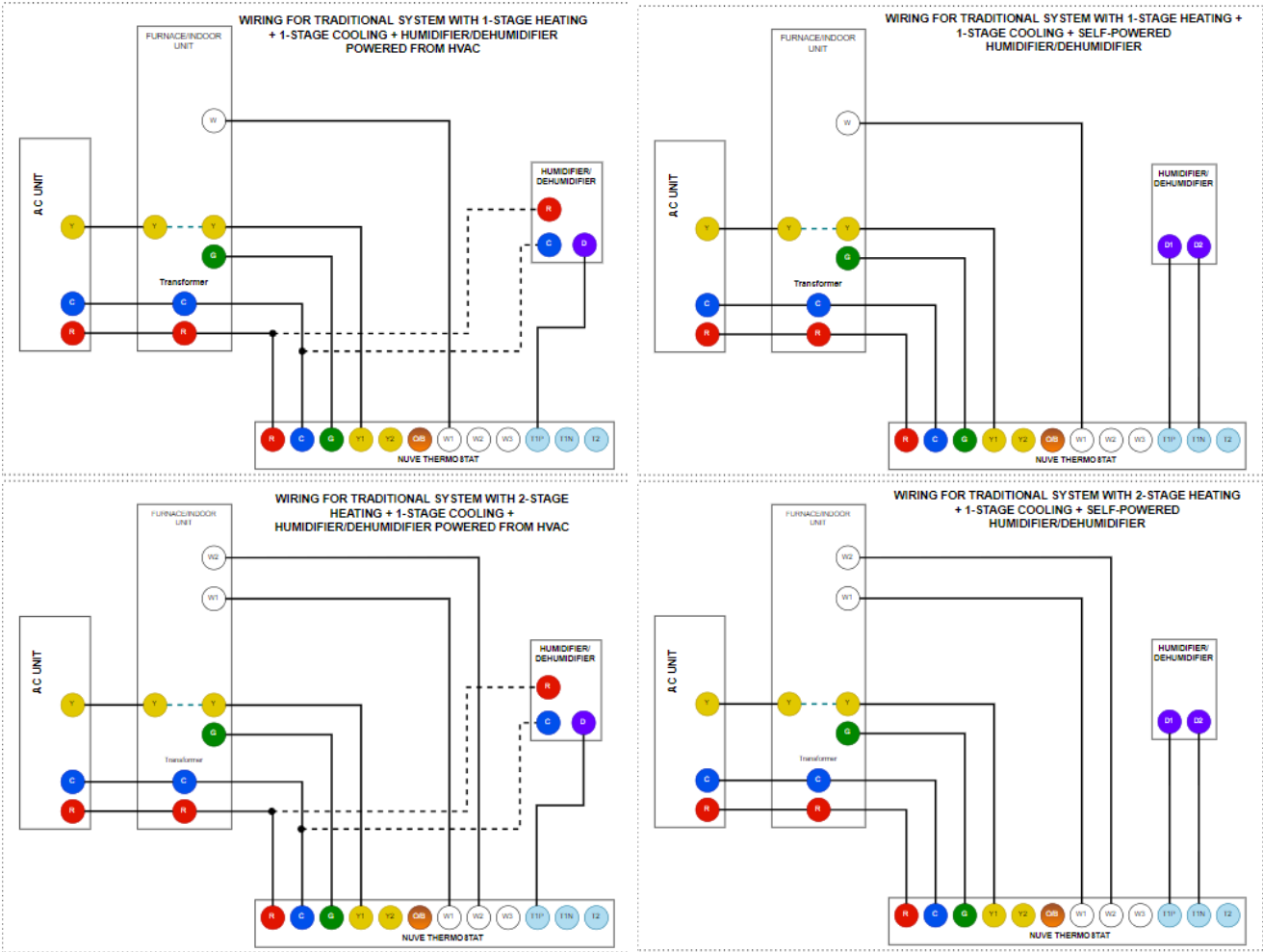
Traditional Systems



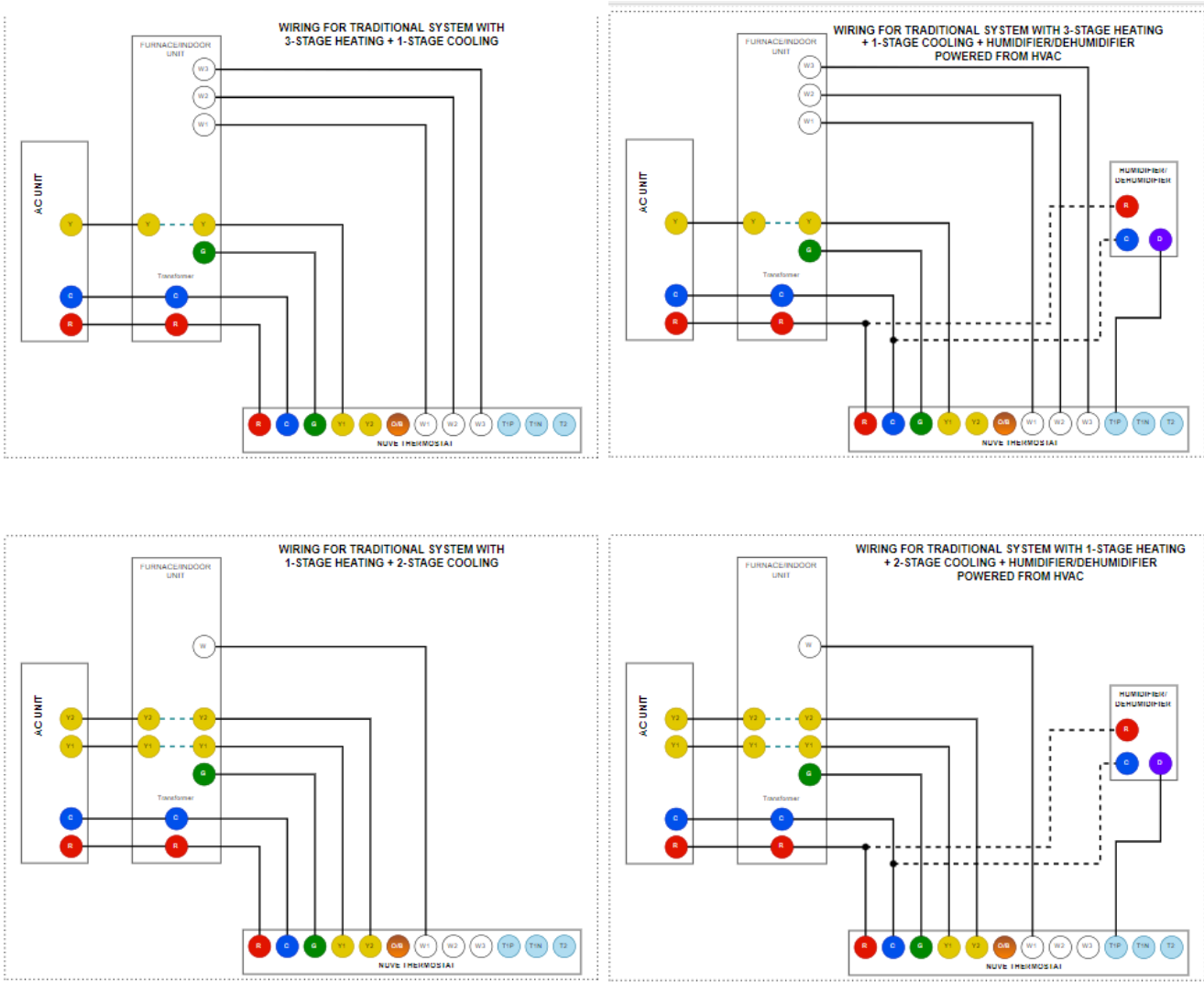
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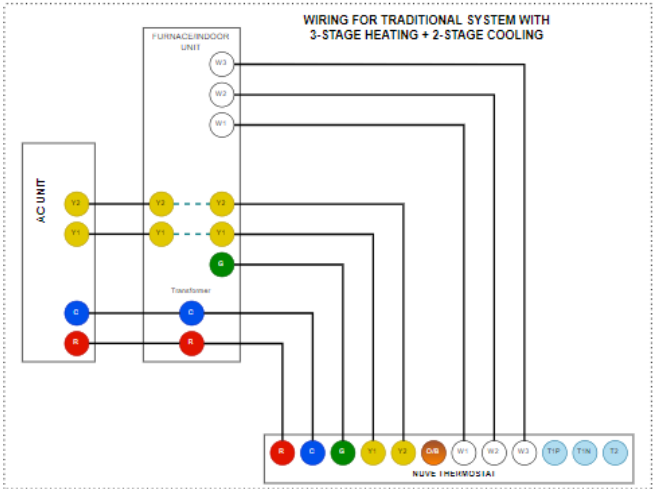
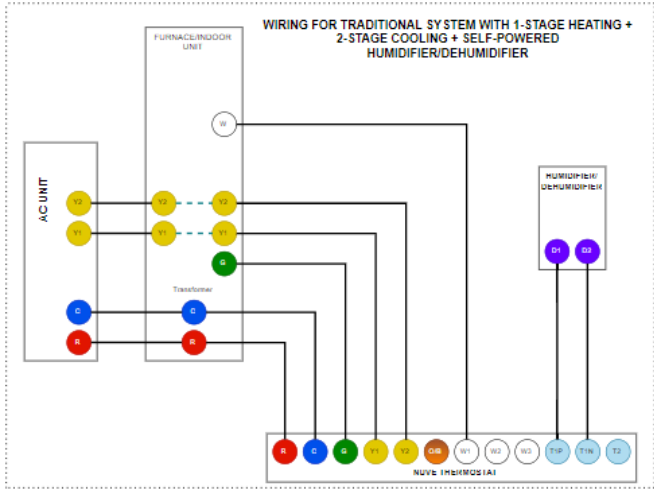
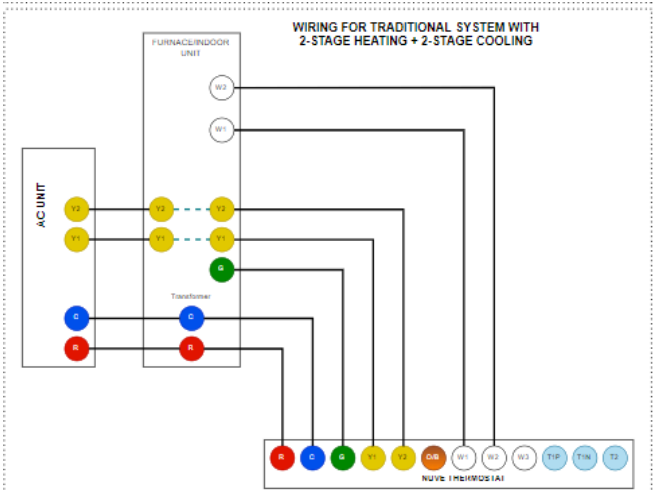
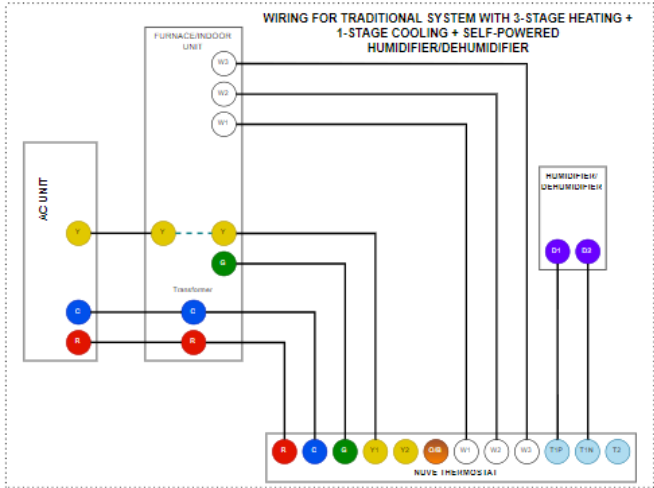


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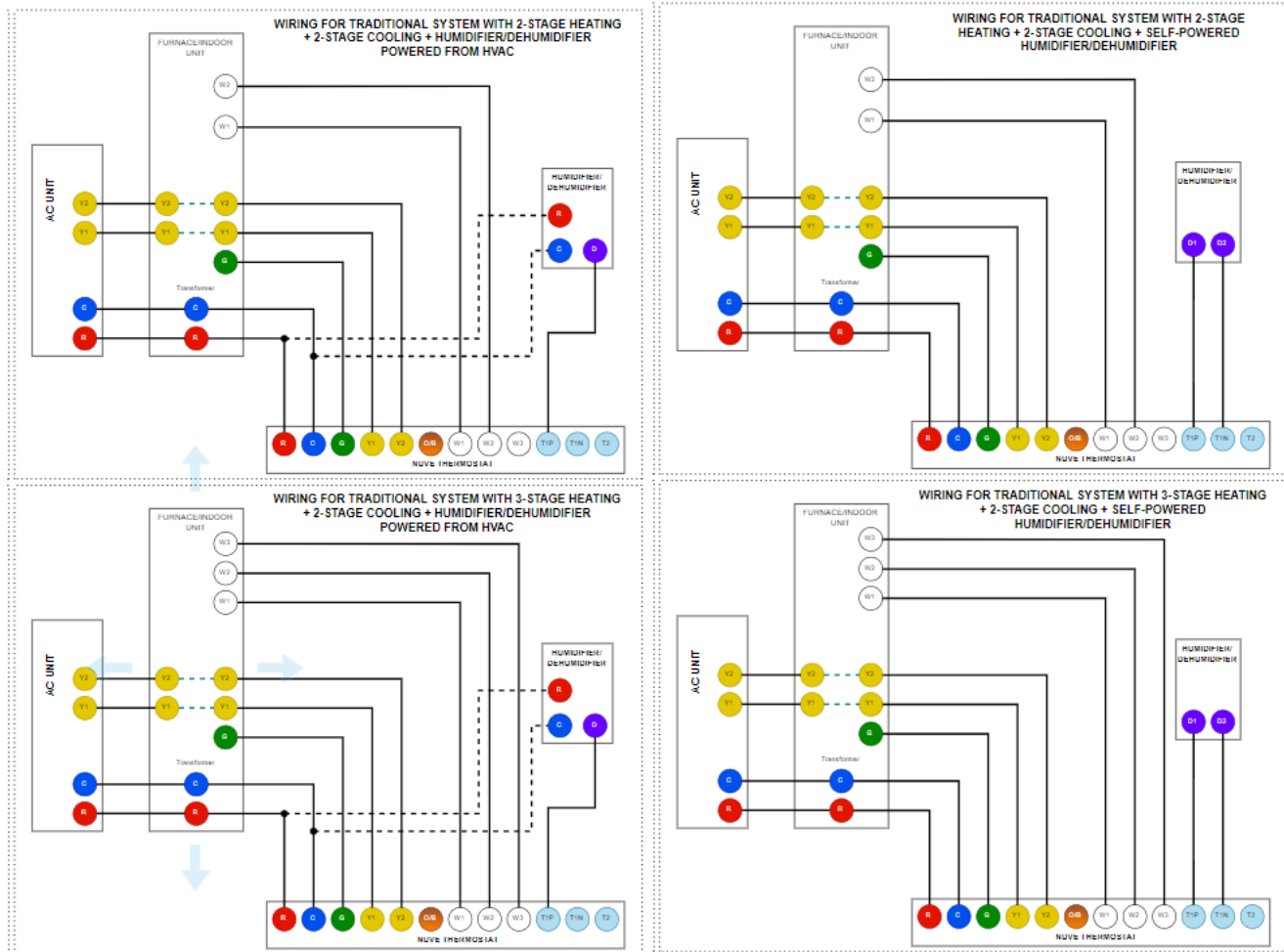




# Nuve Thermostat Installation Guide



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from 410 - to 424