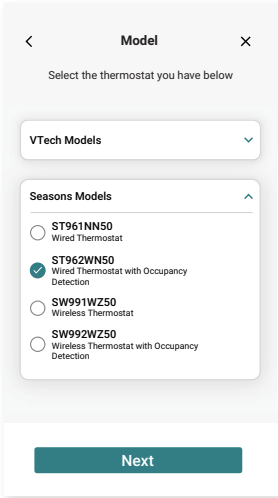


Create Your First Profile

3. Tap to select your thermostat's model (ST962WN50) and tap Next.
4. Select your system type and tap Next, review the wiring setup, and tap Next.
5. Tap Create to save this new profile without changing any default settings or values. Or you can define this profile's settings and values on this interface and then tap Create.

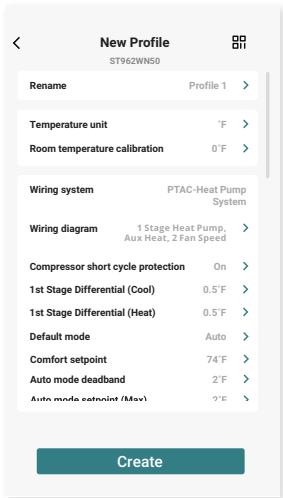


Note

To verify your system type, review the product model number label.

If your model number is SP__E_ __, select Conventional System.

If SP__H_ __, select Heat Pump with Aux Heat System.



Item	Setting Options or Values	Default Setting or Value
Rename	Fill in the new profile name or ignore this item. Note • In this item, you can rename the profile name that you have input in step 2. If you don't want to rename it, just ignore this item. • Only numbers, letters and spaces up to 30 characters are allowed. Padding profile name with ellipsis on this interface if it's too long. • Profile names can be duplicated, but must be unique within each property.	The auto generated profile name or the profile name you have input in Step 2 (e.g., Profile 1).
Temperature Unit	Fahrenheit (°F) or Celsius (°C)	Fahrenheit (°F)

Note: The Setpoint Range resets to default values after changing temperature unit.

Create Your First Profile

Item	Setting Options or Values	Default Setting or Value
Room Temperature Calibration	Range: -4°F (-2°C) to 4°F (2°C) Note: This allows you to adjust the calibration of the ambient room temperature in order to increase its accuracy and ensure that you're getting a proper temperature reading.	0°F (0°C)
Wiring System	- PTAC-Conventional System - PTAC-Heat Pump System Note - In this item, you can change your wiring system choice in step 4. If you don't want to change it, just ignore this item. - Please consult with your wiring technician to match your choices with the wiring system that will be wired for your thermostat. Selecting an incorrect wiring system may damage your system.	The option you have chosen in Step 4.
Wiring Diagram	1 Stage Cool, 1 Stage Heat 1 Stage Heat Pump, Aux Heat Note - In this item, you can change your wiring diagram choice in step 4. If you don't want to change it, just ignore this item. - Please consult with your wiring technician to match your choices with the wiring diagram that will be wired for your thermostat. Selecting an incorrect wiring diagram may damage your system.	The option you have chosen in Step 4.
Changeover Valve (PTAC-Heat Pump Only)	- Energized in cooling (O) - Energized in heating (B)	Energized in heating (B)
Compressor Short Cycle	On or Off Options when setting to On: 3, 4, or 5 minutes	On - 3 minutes
1 st Stage Differential (Cool)	0.5°F (0.25°C), 1°F (0.5°C), or 1.5°F (0.75°C)	0.5°F (0.25°C)
Note: 1 st Stage Differential (Cool) - determines the level of control and consequently the cycle rate. Adjustable between 0.5°F (0.25°C) and 1.5°F (0.75°C), this is the value above the set point that the temperature must rise to start the cooling. It is also the value below the set point that the temperature must fall for the cooling to stop.		

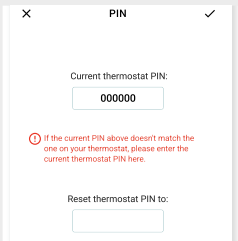
Create Your First Profile

Item	Setting Options or Values	Default Setting or Value
1 st Stage Differential (Heat)	0.5°F (0.25°C), 1°F (0.5°C), or 1.5°F (0.75°C)	0.5°F (0.25°C)
	Note: Determines the level of control and consequently the cycle rate. Adjustable between 0.5°F (0.25°C) and 1.5°F (0.75°C), this is the value below the set point that the temperature must fall to start the heating. It is also the value above the set point that the temperature must rise for the heating to stop.	
2 nd Stage Differential (Heat) (PTAC-Heat Pump Only)	1°F (0.5°C) or 2°F (1°C)	2°F (1°C)
	Note: Adjustable between 1°F (0.5°C) and 2°F (1°C), this also determines the level of control by determining when to use the 2 nd stage of heating. It can also be used to keep 2 nd stage heating from coming on too soon when 1 st stage is acting to control temperature levels or to keep costly auxiliary heat from coming on too soon when the heat pump is sufficient.	
Default Mode	Auto, Heat, or Cool	Auto
	Note: The default mode will be the primary HVAC mode that is activated each time the system is turned on.	
Comfort Setpoint	Range: 55°F-82°F (13°C-28°C)	74°F (23.5°C)
	Note: The value of Comfort setpoint is not allowed to be bigger than the maximum cool mode setpoint and smaller than the minimum cool mode setpoint.	
Auto Mode Deadband	2°F (1°C), 4°F (2°C), 6°F (3°C), 8°F (4°C), or 10°F (5°C)	2°F (1°C)
	Note: A deadband is a temperature range in which neither heating nor cooling system turns on. The deadband prevents the thermostat from activating heating and cooling in rapid succession. This conserves energy by providing a range of temperatures requiring no energy consumption.	
Auto Mode Setpoint (Max)	Range from comfort setpoint +1°F to 89°F (+0.5°C to 31.5°C)	80°F (26.5°C)
	Note - Example of Auto Mode Setpoint: If the comfort setpoint is set to the default value 74°F (23.5°C), the maximum auto mode setpoint range is 75°F-89°F (24°C-31.5°C).	
Auto Mode Setpoint (Min)	Range from comfort setpoint -1°F to 49°F (-0.5°C to 9.5°C)	65°F (18.5°C)
	Note - Example of Auto Mode Setpoint: If the comfort setpoint is set to the default value 74°F (23.5°C), the minimum auto mode setpoint range is 49°F-73°F (9.5°C-23°C).	

Create Your First Profile

Item	Setting Options or Values	Default Setting or Value
Cool Mode Setpoint (Max)	Range from comfort setpoint +1°F to 89°F (+0.5°C to 31.5°C)	80°F (26.5°C)
Cool Mode Setpoint (Min)	Range from comfort setpoint -1°F to 49°F (-0.5°C to 9.5°C)	65°F (18.5°C)
Heat Mode Setpoint (Max)	Range from comfort setpoint +1°F to 89°F (+0.5°C to 31.5°C)	80°F (26.5°C)
Heat Mode Setpoint (Min)	Range from comfort setpoint -1°F to 49°F (-0.5°C to 9.5°C)	65°F (18.5°C)
Protection Setpoint	On or Off When setting to On, the range of the protection heat setpoint will be 41°F-48°F (5°C-9°C), and the range of the protection cool range 90°F-95°F (32°C-35°C).	Off When setting to On, the default protection heat setpoint will be 45°F (7°C), and the default protection cool setpoint 90°F (32°C).
Fan Operation (PTAC-Conventional Only)	- Gas (for system control) - Electric (for thermostat control)	Electric (for thermostat control)
Override Mode	On or Off When set to On, the following options will appear: 30, 45, 60, 75, 90, 105, or 120 minutes	On
Local Occupancy Sensor (PIR)	On or Off	On
Schedule	On or Off When setting to On, Create schedule button will appear. Tap Create schedule, select the days of the week and then tap Add block 1 of 4. Set the starting time and temperature and then tap Save. Note: Each day of the week must be created with block(s). Otherwise, the schedule's setting cannot be saved.	Off

Create Your First Profile

Item	Setting Options or Values	Default Setting or Value
Humidity	On or Off When setting to On, the current room humidity value will be displayed on the screen.	Off
Always-on Display	On or Off When setting to On, the following options will appear: Level 1 (Min), Level 2, or Level 3 (Max)	Always-on Display: On Automatic Display Dimming: On When set to On, the default is Level 2.
Daylight Saving Time	On or Off Note: Daylight savings time (DST), (United States, Canada, and Australia), or summer time (United Kingdom, European Union, and others), is the practice of advancing clocks (typically by one hour) during warmer months so that darkness falls at a later time.	On
Filter Change Reminder	On or Off When setting to On, the following options will appear: 15, 30, 60, 90, 120, 150, or 180 days	Off When set to On, the default is 30 days
PIN	Enter your new 6-digit PIN to reset PIN, 000000 or ignore this item to let the current PIN remain unchanged.  Note • 6 digits are required for a valid PIN. • Both profile and thermostat's default PINs are 000000. • It is allowed to set new PIN identical to current PIN. • Reset thermostat's PIN 1. Enter the thermostat's current and new PINs in this item. 2. Install the updated profile on your thermostat. • If you need to upload a profile to a thermostat, enter the current PIN of the thermostat you are setting up in this item. To check your thermostat's current PIN, refer to pages 38-40.	

Occupancy Sensor (PIR) Settings

Unoccupied



If the time since last presence detection exceeds the minimum Occupancy threshold setting (30-120 mins), the system predicts that the room is no longer occupied and your predefined Unoccupied Heat/Cool setpoints (or set-back temperatures) take effect. Once a room is considered unoccupied, the thermostat allows the ambient room temperature to drift to the Unoccupied minimum or maximum temperature setpoint. The thermostat will return to the default mode and comfort setpoint once presence is detected again.

Occupied



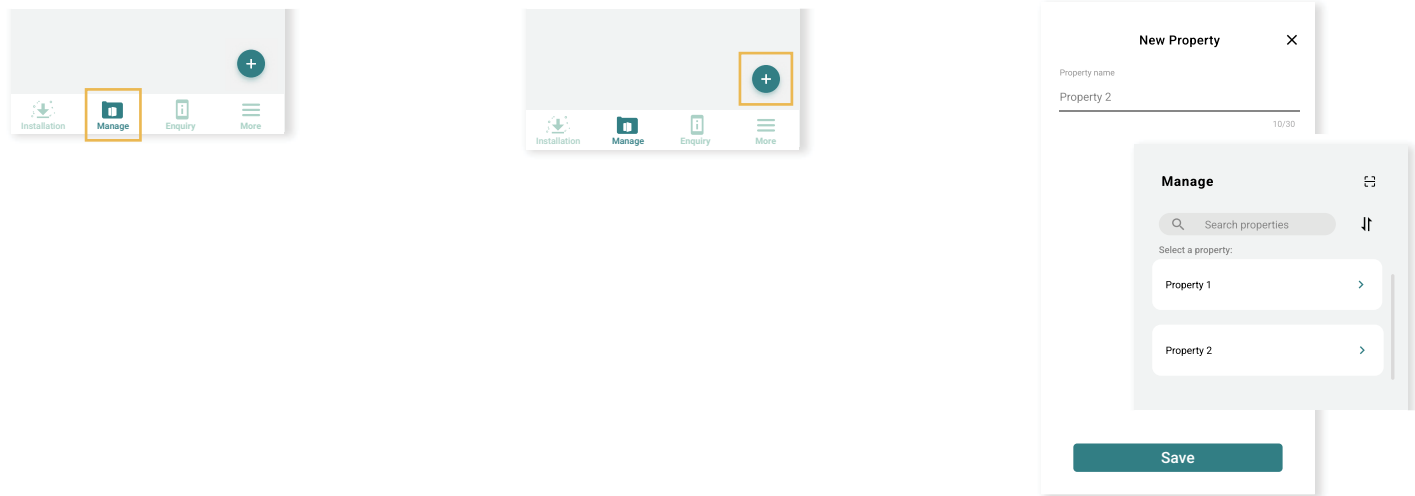
The guest room is considered “occupied” when the occupancy sensor detects movement. While the guest room is “occupied”, the room temperature will be maintained according to the mode and temperature set point selected by the user.

Option		Default
Local Occupancy Sensor (PIR)	You can choose to utilize the occupancy sensor to set back the room temperature while it is not being occupied Options: On, Off	On
Incidental Occupancy Threshold	The thermostat will delay entering occupied mode until this incidental threshold setting is exceeded. It allows for incidental room visits. In minutes: 0 to 30 minutes	0 min(s)
Occupancy Threshold	Once the thermostat confirms occupancy, the thermostat will enter and maintain occupied mode for this minimum Occupancy Threshold setting. In minutes: 30, 45, 60, 75, 90, 105, or 120 minutes	60 min(s)
Occupancy Prediction Threshold	In minutes: 0 to 30 minutes	0 min(s)
Occupancy Prediction Start	In hours: 24-hour clock	21:00
Occupancy Prediction End	In hours: 24-hour clock	9:00
Cycle Minimizer	Options: On, Off	On
Unoccupied Cool Setpoint	—	83°F
Unoccupied Heat Setpoint	—	62°F
Current PIN on Thermostat	—	000000
Reset PIN to Thermostat	—	—

Manage Properties and Profiles

Create a Property

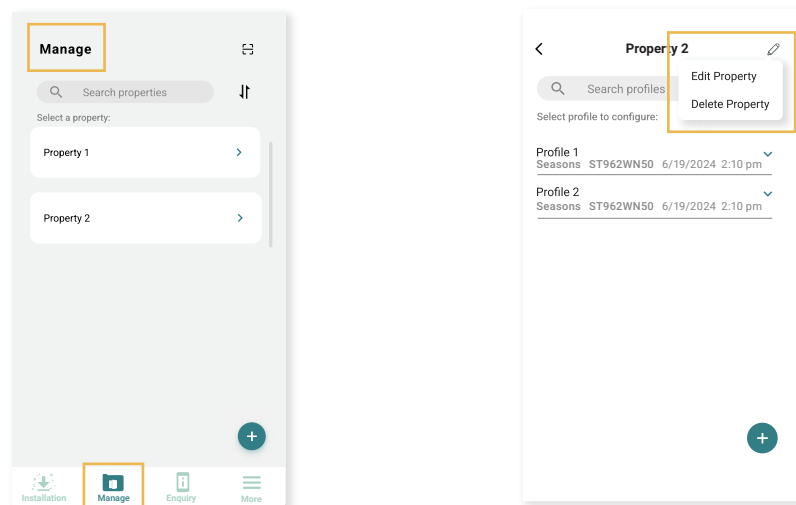
1. Tap the Manage tab.
2. Tap the Add button ().
3. Enter your property name and then tap Save.



Note
The system will automatically generate a property name during creating a new property, such as Property 2.

Edit a Property

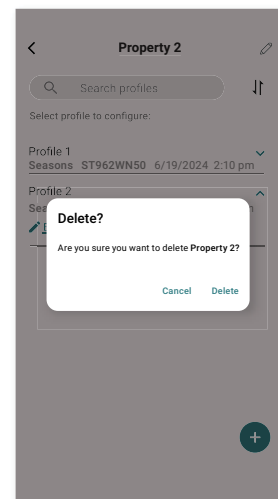
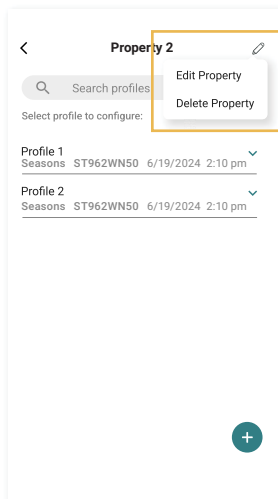
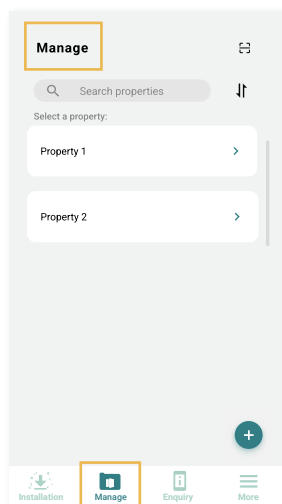
1. Tap the property you want to edit.
2. Tap the Edit icon (), then select Edit Property from the drop down menu and then enter the new property name and tap Save.



Manage Properties and Profiles

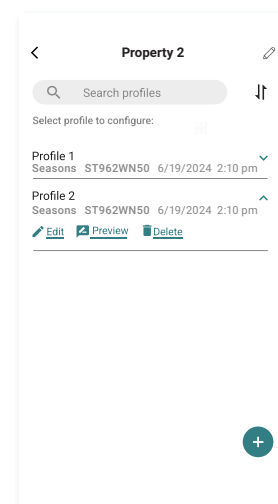
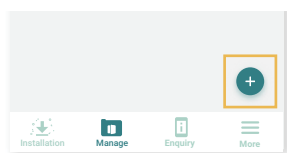
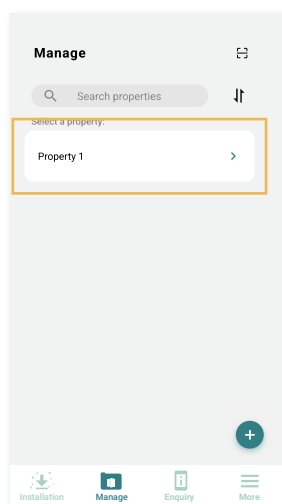
Delete a Property

1. Tap on the property you want to delete.
2. Tap on the Edit icon (✎) and select Delete Property from the drop-down menu
3. Tap Delete on the popup window to confirm deletion.



Create a Profile

1. Tap to select a property.
2. Tap the Add icon (+) to create a new profile.
3. Follow the steps on pages 15-20 to create a new profile: Enter your profile name, and select thermostat model, wiring diagram, etc.

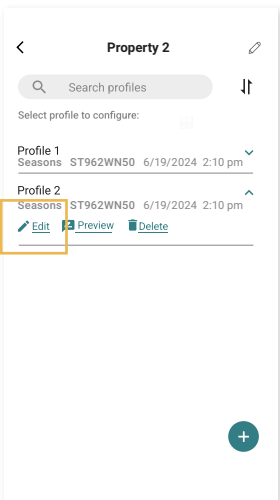
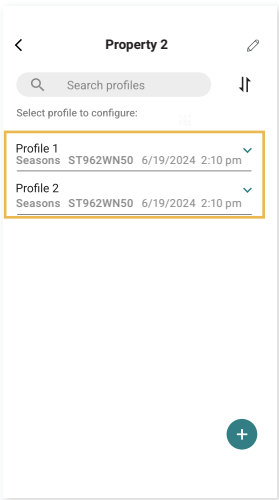


Manage Properties and Profiles

Edit a Profile

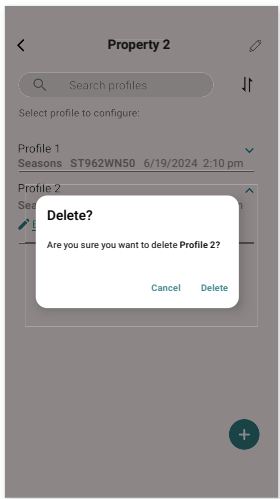
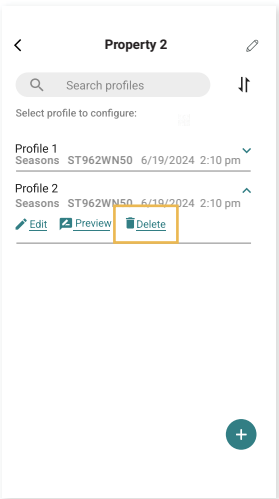
1. Tap on the property you want to edit.
2. Tap edit (Edit) to edit the selected profile and follow the steps in Define profile settings and values on pages 16-20.

Note
To quit the editing process, tap X in the top right at any time. The changes you have made will not be saved to the EC Tool Pro app.



Delete a Profile

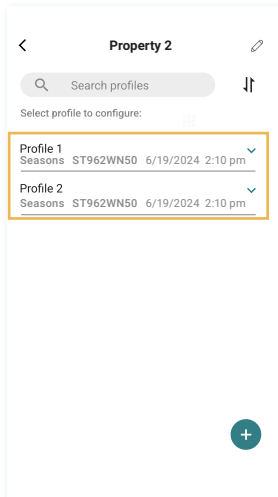
1. Tap on the profile you want to delete. Then tap delete (Delete).
2. Tap Delete on the popup window to confirm deletion.



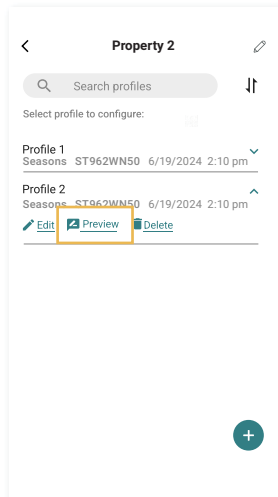
Manage Properties and Profiles

Preview a Profile

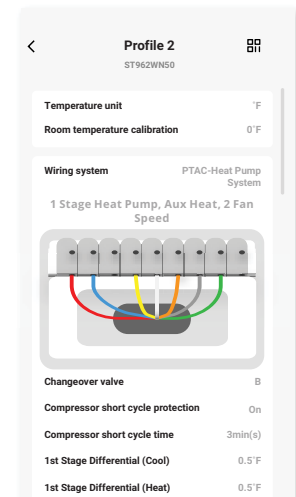
1. Tap on the profile you want to view.



2. Tap preview ( Preview) under the selected profile.

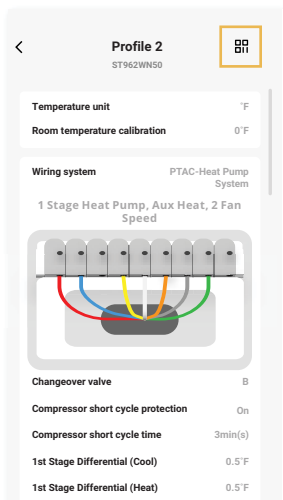


3. Scroll down through all of the settings.



4. Save the profile's QR code (optional)

Tap the QR code icon in the top right corner, then tap Save Photo to save the QR code to your photo library, or tap < on top left to exit.



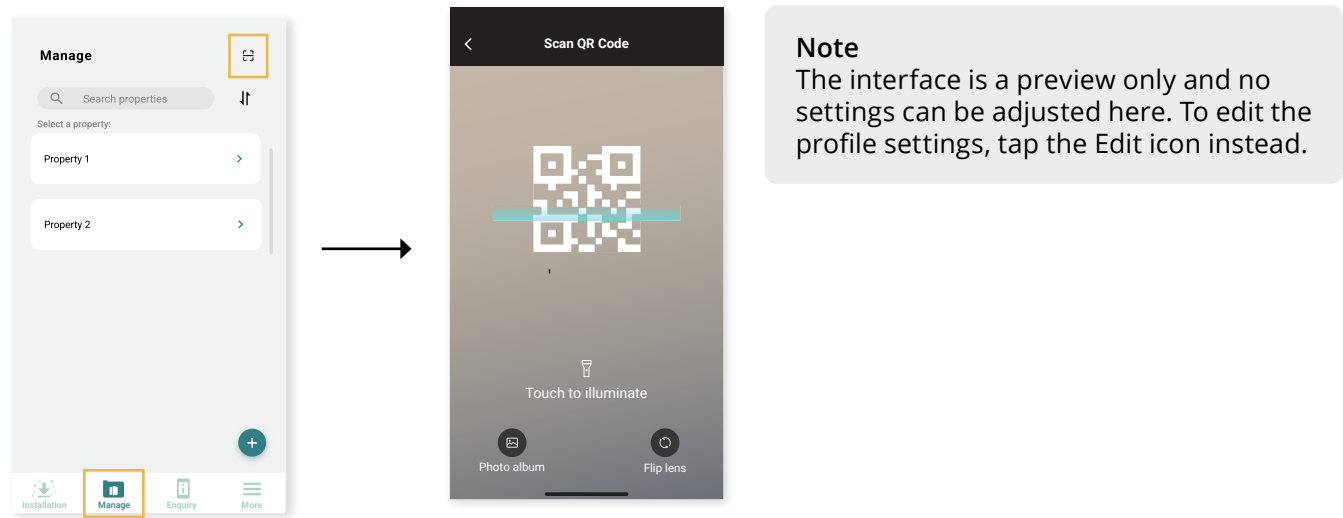
Note

- The interface is a preview only and no settings can be adjusted here. To edit the profile settings, tap the Edit icon instead.
- Save the profile's QR code features** - Transferring a profile to another EC Tool Pro app. This feature helps you easily transfer a profile. After saving the profile to another EC Tool Pro app, you can edit it to be a new profile.

Manage Properties and Profiles

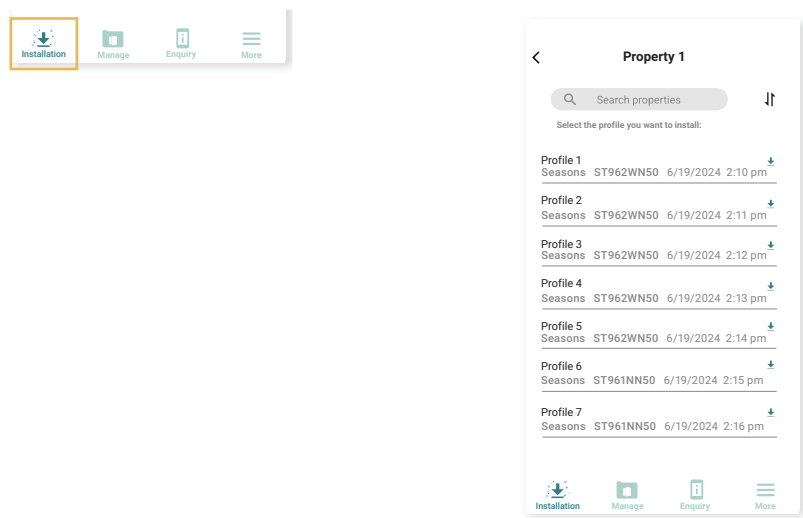
View Profile QR Code

To view a Profile QR Code, tap the Manage tab then the scan (📷) icon in the top right corner of the app. This will open the “Scan QR Code” screen. You can then scan the QR code displayed on another smartphone, or tap Photo album to scan a QR code that is saved in photos.



Install a Saved Profile

1. Tap Installation tab, then select a property.
2. Tap the Install icon for the profile you want to install.



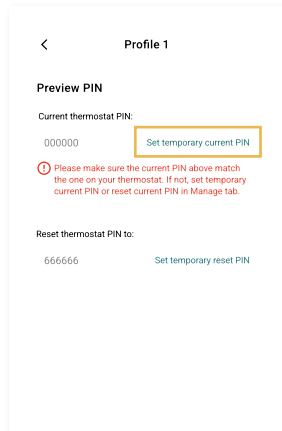
Install a Saved Profile

Preview PIN

3. If the current PIN recorded in the profile matches the one on your thermostat, tap Next. If it doesn't match, tap Manage tab to update the current thermostat PIN recorded in the profile to match the one on your thermostat, then tap Installation tab to restart the installation process.
- or

Tap Set temporary current PIN, then enter the temporary current PIN to match the one on your thermostat, and tap Next.

- To cancel setting temporary current pin, tap Remove temporary pin.

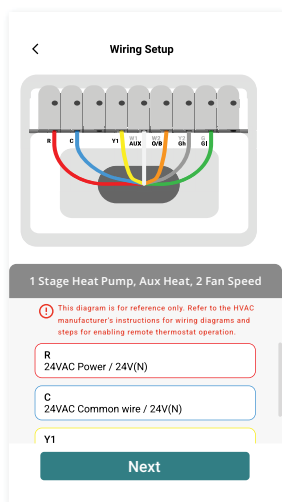


Note

- To check your thermostat's current PIN, refer to pages 38-40.
- To set temporary reset PIN, tap Set temporary reset PIN. After installing the profile on your thermostat, your thermostat's PIN will be updated to the temporary reset PIN, but neither the temporary current PIN nor the temporary reset PIN will be recorded in the profile.

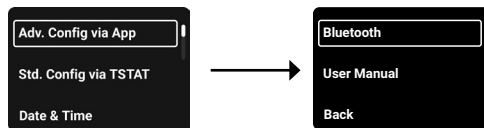
Preview Wiring Diagram

4. Verify that your PTAC settings are correct and the thermostat is wired according to the diagram, then tap next.



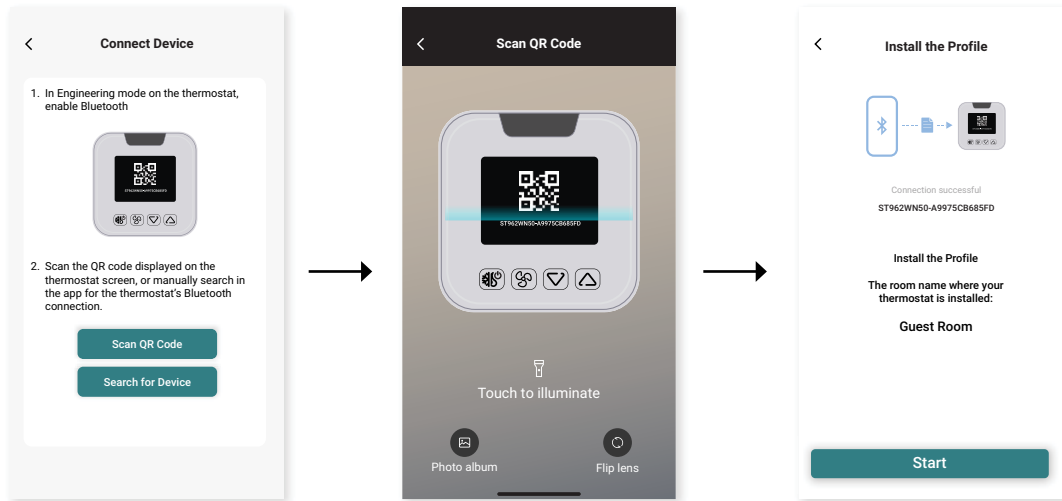
Install Profile

5. Once you see the Connect Device screen in the app, move to the thermostat. Using Mode (⚙️), Up (⬆), and Down (⬇) buttons, select System Settings > System Configuration > Adv. Config. via App > Bluetooth.



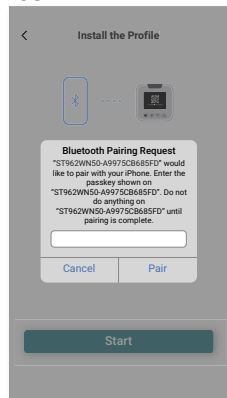
Install a Saved Profile

6. After selecting Bluetooth, a QR code will appear on the thermostat display. Using the app, tap Scan QR Code, then use your camera to scan the QR code displayed by the thermostat.

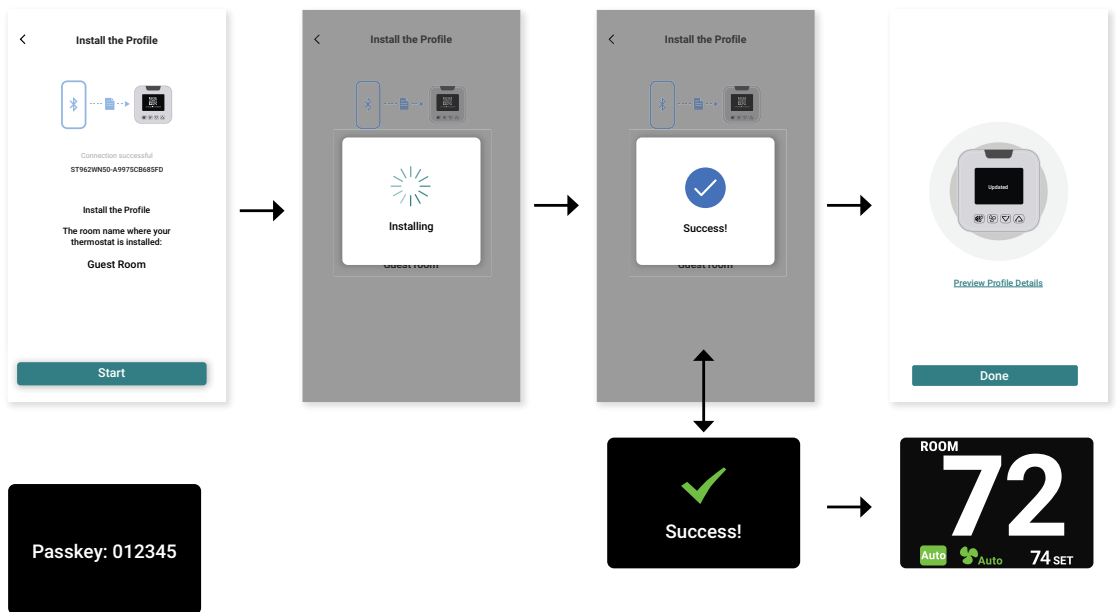
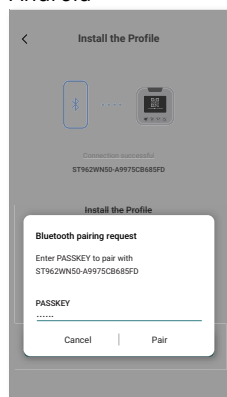


7. Enter the randomly generated six digit Bluetooth passkey that appears on the thermostat into the app, then tap Start to install the profile. Once the profile has been installed, you will see Success! popup in the app and the thermostat. The thermostat will reboot upon completion and tap the Done button in the app. You can now test the thermostat.

iOS

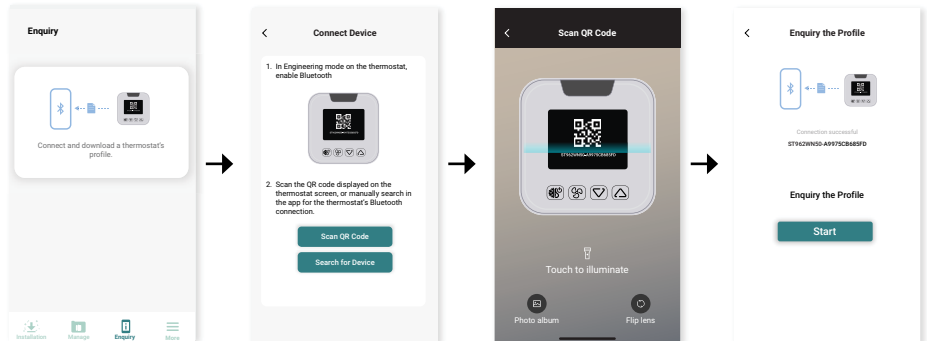
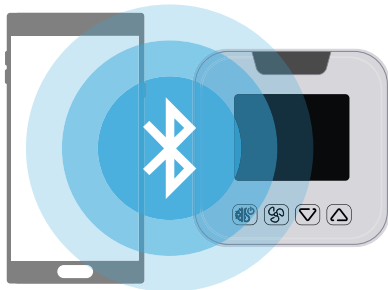


Android



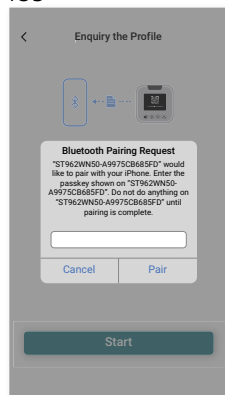
Download a Thermostat's Profile

1. In the Engineering mode on the thermostat, enable Bluetooth and connect to your phone.
2. Tap the Enquiry tab in the app, then select Connect and download a thermostat's profile. You will then be required to enter the security PIN that was assigned to this thermostat.

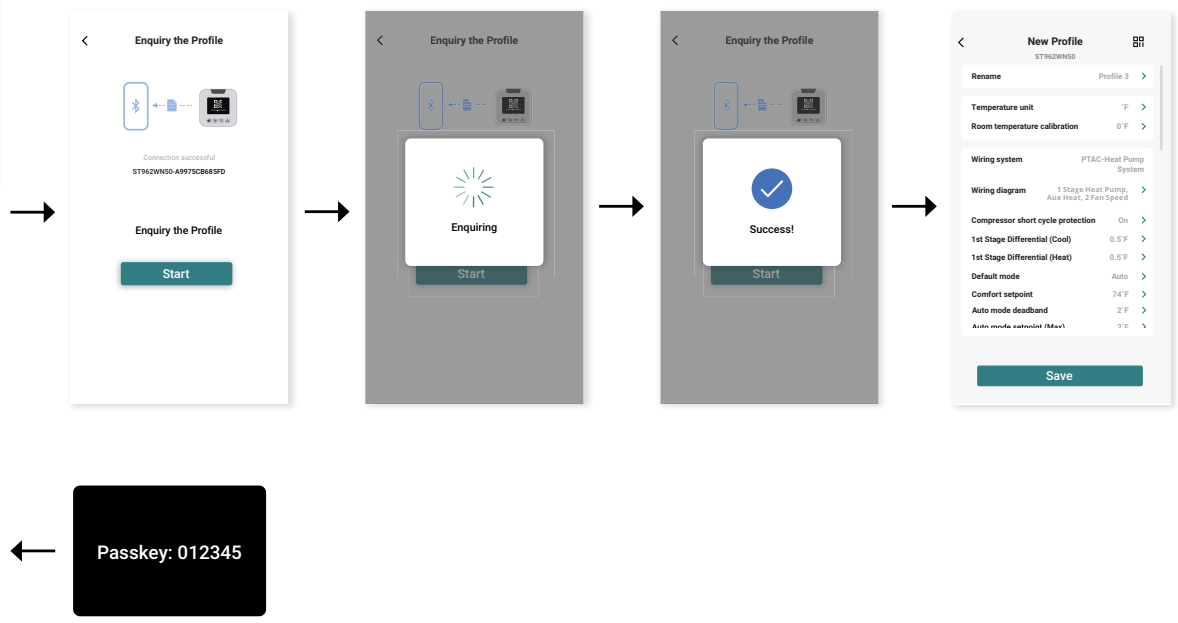
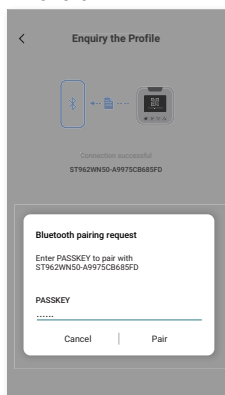


3. Enter the randomly generated six digit Bluetooth passkey that appears on the thermostat into the app, then tap Start to access the profile.

iOS



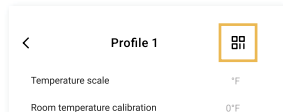
Android



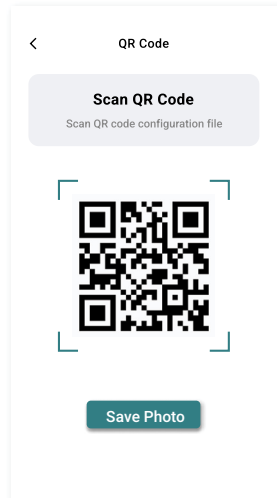
View Thermostat's Profile

Save Profile's QR Code

4. Tap the QR code icon () on the top right to open the profile's QR code.



5. Tap Save Photo to save the QR code to your photo library. Send it to another smartphone for scanning it later to view the profile. Then tap < on top left to go back to the interface for profile setting details.



View Profile's QR Code

6. To view a Profile QR Code, you tap the Manage tab then the scan () icon in top right corner of the app. This will open the "Scan QR Code" screen. You can then scan the QR code displayed on another smartphone, or tap Photo album to scan a QR code that is saved in photos.

Save Profile to EC Tool Pro App

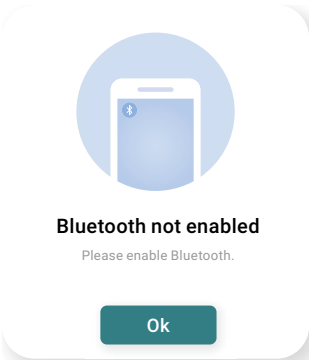
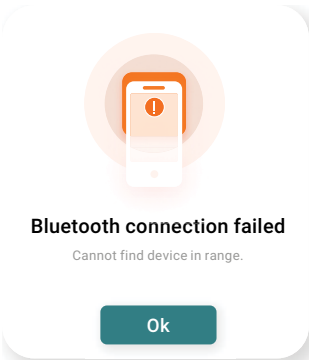
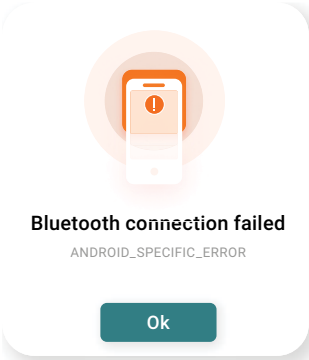
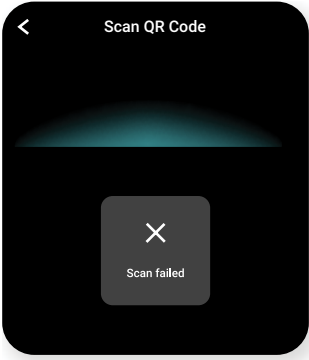
7. Tap to select your target property, or tap Add icon () to create a new property.

8. Tap Next to save the profile to this target or newly-created property and go back to the property list in Manage tab.

Note

- If your target property already has a profile with the duplicated name, the app will remind you to rename this profile. You can rename it or choose to quite the saving.
- **Save profile's QR code and Save profile features**
Transferring a profile to another EC Tool Pro app is important. Both features help you easily achieve this goal. After saving the profile to another EC Tool Pro app, you can edit it there to be a new profile.

Error Messages and Troubleshooting

Popup Error Message	Solution
1.  The image shows a white rounded rectangle with a light blue circular background at the top containing a smartphone icon with a Bluetooth symbol. Below the icon, the text reads: Bluetooth not enabled, Please enable Bluetooth., and an Ok button at the bottom.	Tap OK and enable Bluetooth on your thermostat.
2.  The image shows a white rounded rectangle with a light orange circular background at the top containing a smartphone icon with an orange exclamation mark. Below the icon, the text reads: Bluetooth connection failed, Cannot find device in range., and an Ok button at the bottom.	Tap OK. Then tap < on top left to go back to the Connect Device page. Tap Scan QR Code or Search for Device.
3.  The image shows a white rounded rectangle with a light orange circular background at the top containing a smartphone icon with an orange exclamation mark. Below the icon, the text reads: Bluetooth connection failed, ANDROID_SPECIFIC_ERROR, and an Ok button at the bottom.	Tap OK. Then tap < on top left to go back to the Connect Device page. Tap Scan QR Code or Search for Device.
4.  The image shows a black rounded rectangle with a back arrow in the top left corner. The title is 'Scan QR Code'. In the center, there is a grey square with a white 'X' and the text 'Scan failed' below it.	Tap < on top left to go back to the Connect Device page. Tap Scan QR Code or Search for Device.