

KSACN1701AAA
WIRED SMART CONTROLLER

OWNERS MANUAL



Wired Smart Controller

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HA AND HB CONNECTIONS

Compatible only with:

Ductless Multi-Family, Ductless, and Ductless Crossover Air Handlers, as well as Crossover Coil applications.

Not compatible with:

Ducted Units, Cassettes, or Floor/Ceiling Consoles for direct HA/HB connections—requires a 24V interface.

24V CONNECTIONS

Integrates exclusively through a 24V interface for use with Ductless Indoor Units.

Check the 24V interface compatibility charts or 24V Interface submittal to ensure the correct indoor unit is paired with the 24V interface for Wired Smart Controller integration.

NOTE: Refer to the 24 Volt Interface Compatibility Charts to confirm interface compatibility with indoor units.

COMMUNICATION (HA&HB) SETUP GUIDE

When power is applied to the Smart Thermostat, it will provide step-by-step prompts to assist with configuring the HVAC equipment.



1. Set Language then Continue



2. Set Country and Time Zone



4. Automatically detects modes

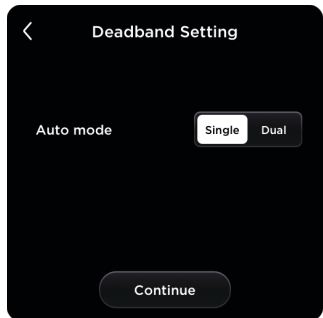


3. Select HA & HB

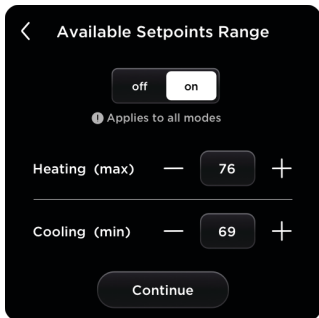




5. Choose Temperature Units



6. Select Single or Dual Deadband



8. Select Set point ranges

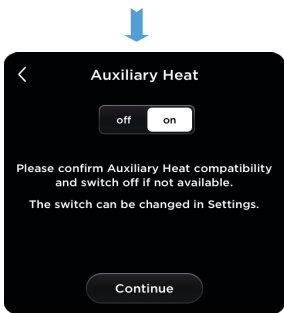


7. In Dual, set Deadband range

Deadband is the temperature range within which neither the heating nor cooling system functions. Dual Auto deadband will display heating/cooling set points on the main operating screen.

It can prevent the system from cycling on and off too frequently and prevent the heating and cooling systems from operating simultaneously.

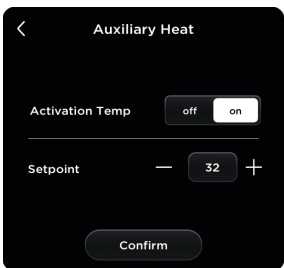
NOTE: Only AHU4 and HA/HB configurations support Dual Auto.



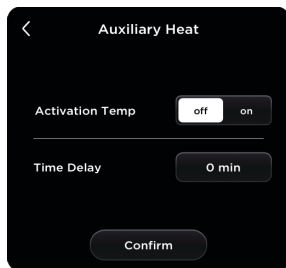
9. Select electric auxiliary heating switch



9.1. Select the activation logic for Auxiliary Heat

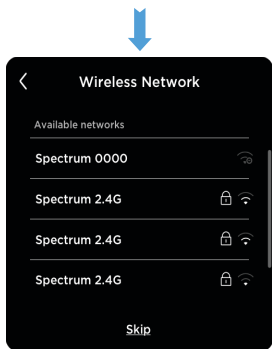


9.1.B. Choose to activate the auxiliary heat using the activation temp, and set the setpoint

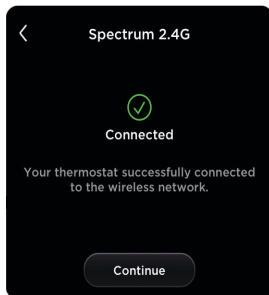


9.1.A. Choose to activate the auxiliary heat using the delay time, and set the delay time

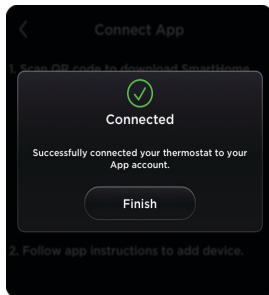
This feature is only available for certain models.



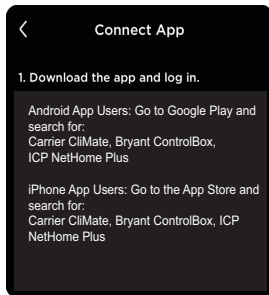
10. Enter network password to connect to the network



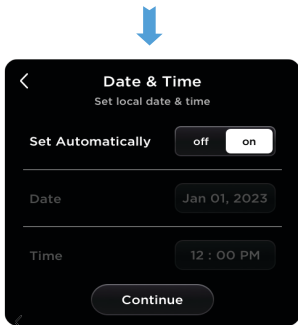
11. Press Continue



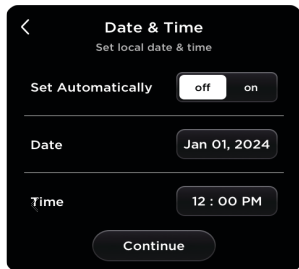
13. Press Finish to go to the next screen. finish binding the app



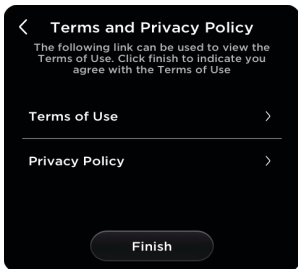
12. Download the APP and install to finish binding the app



14. There is no need to set the time if connected to the internet



15. It can be set manually if no network connection is available



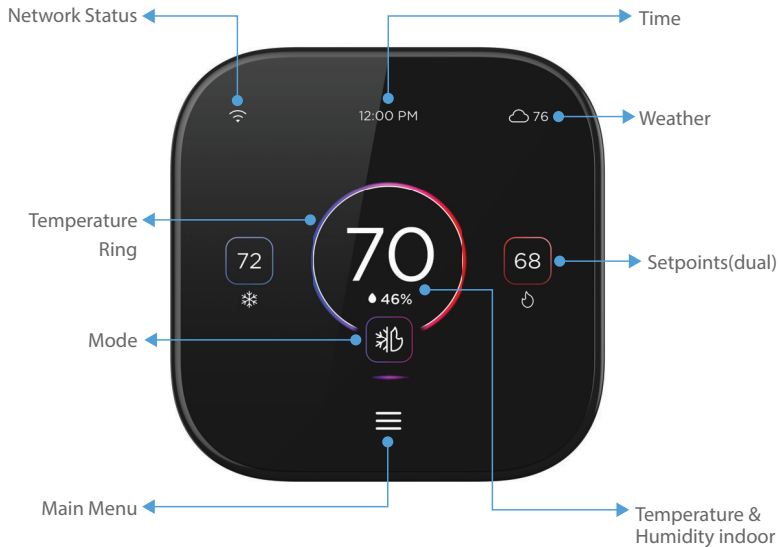
17. Agree to the Terms of Use and Privacy Policy to finish the installation.



16. For a better experience, it is recommended to enable the Automatic updates feature and bind your app account.

Main Page HA & HB Communication

This is the Home Screen for this Thermostat. You can change the set-points and modes on this page. It will display basic system information.



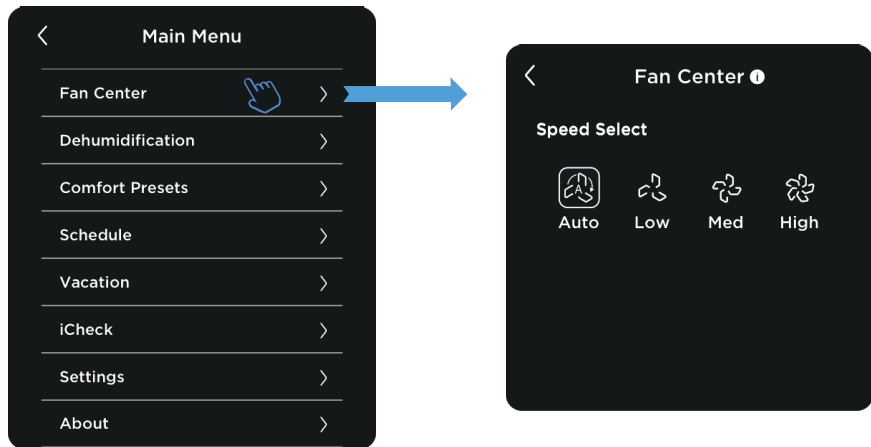
Mode Selection

According to the different patterns of your IDU models will automatically adapt, the most common modes are Heat/Auto/Cool/Fan/Off/Emergency Heat.



Main Menu - Fan Center

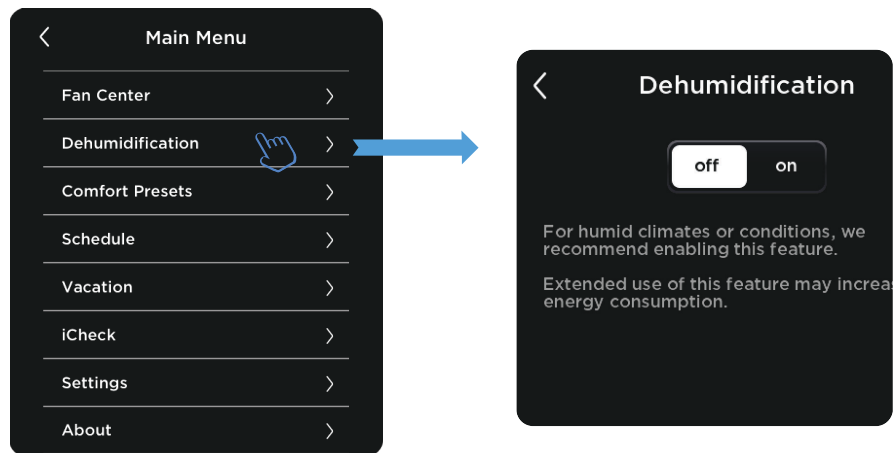
A suitable fan speed can be selected to facilitate indoor air circulation.



Constant fan setting has been moved to the Service. If you want to change the constant fan settings, please go to Main Menu-Settings-Service.

Main Menu - Dehumidification

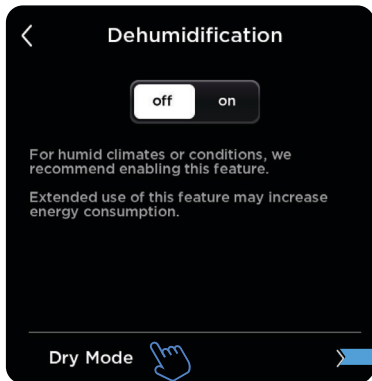
Turning on Dehumidification function in Cool Mode can maintain a comfortable temperature and humidity.



Dehumidification is only available for certain models.

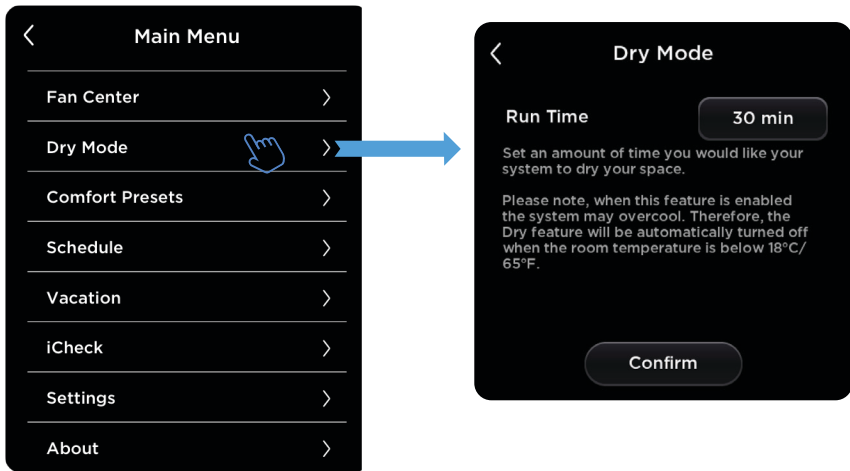
Main Menu - Dehumidification - Dry Mode

Dry Mode can be run at the set time to prevent the indoor temperature from being too low.



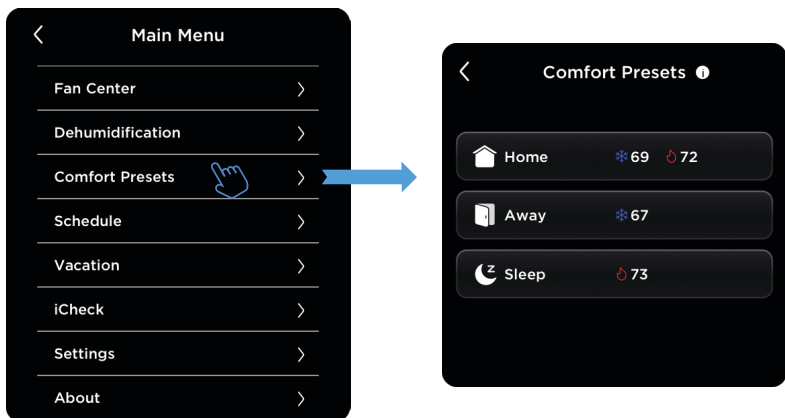
Main Menu - Dry Mode

For some models that do not support Dehumidification, only Dry mode is supported.



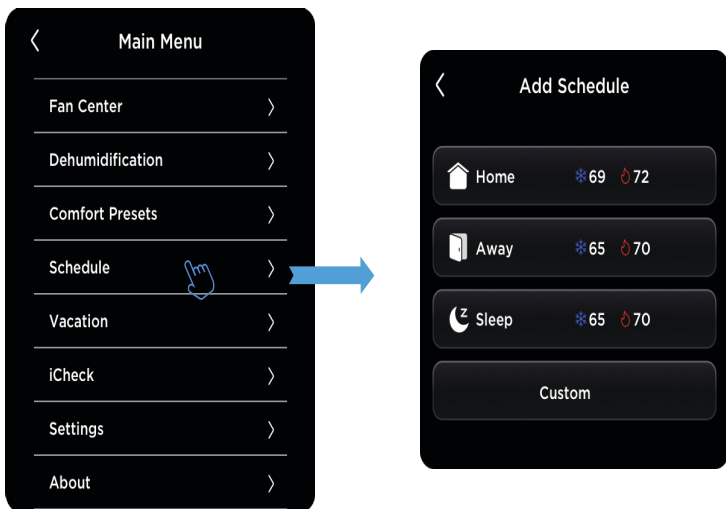
Main Menu - Comfort Presets

Setup the comfort presets can streamline schedule creation, and gain access to quick changes in the app.



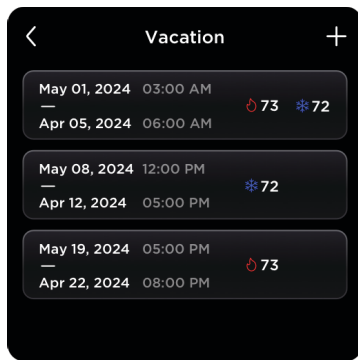
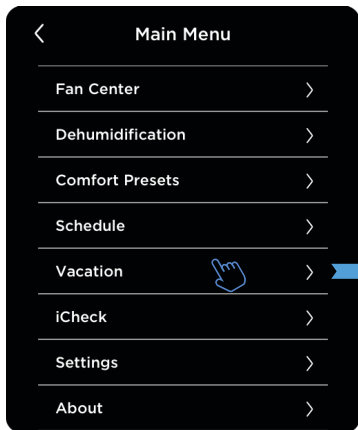
Main Menu - Schedule

In addition to using comfort presets for making your schedule, you can also customize your own “comfort presets”.



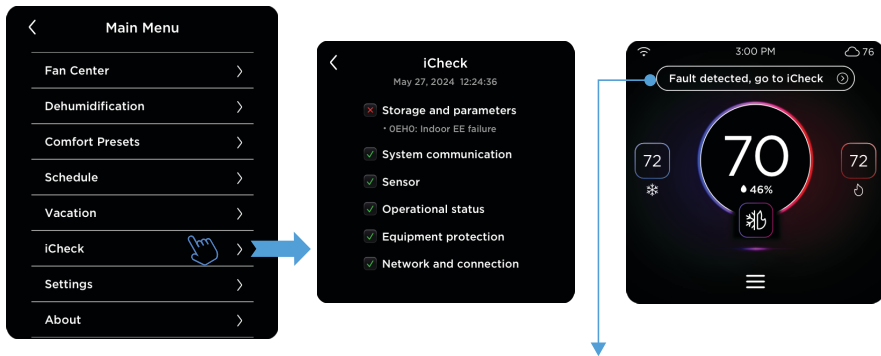
Main Menu - Vacation

When vacation is running, It will not execute scheduled tasks.



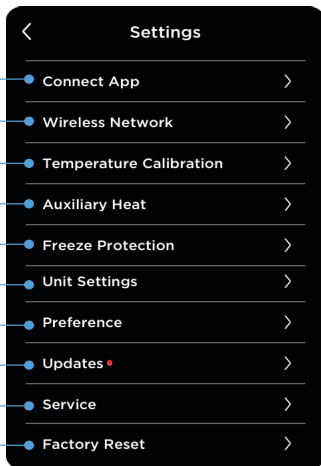
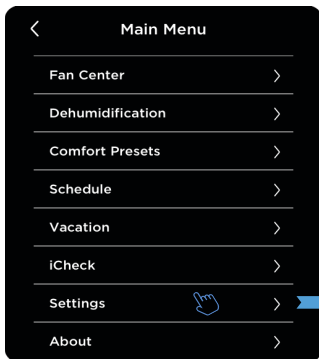
Main Menu - iCheck

iCheck can make sure your device is running properly, if there are any errors indicated, contact your service provider for service.



At the same time, the device will automatically detect the errors and prompt a fault notification on the main page.

Main Menu - Settings

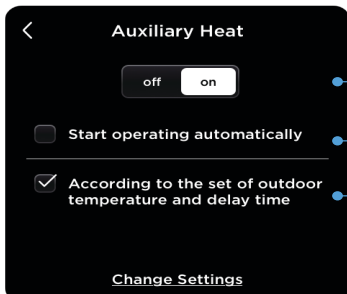


- Binding app to unlock more smart features
- Connect to Network
- Calibrate the temperature of the sensor
- Detailed Settings for Auxiliary Heat
- Protection when the temperature is too low
- Date and time, location, Temperature units
- Display brightness, Sound, Available setpoint range
- A red dot lights up to remind you when need to update
- Service mode/engineer mode
- Restores thermostat Settings without changing AHU parameters

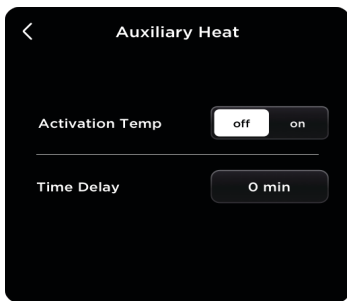
Main Menu - Settings Auxiliary Heat

Selecting Auxiliary Heat switch to OFF will deactivate electric auxiliary heat and emergency heat mode.

If using HA/HB communication, the auto switch function is not supported. The dual-fuel outdoor switchover temperature (for use with the 45MULA/40MULA) can be utilized through the S3 dial of the 45MULA/40MULA interface. Please refer to the 45MULAQ IM page 33 table 14 for more information on setting the ODU temperature for dual fuel auto changeover. If 24V communication is used, there is a setting page for installer to select the outdoor temperature limit. The outdoor temperature is synced from Internet, based on users' phone IP.



- Switch to On if the AUX heat is available
- Operate according to the dial code of the IDU
- Set outdoor temperature condition or delay time

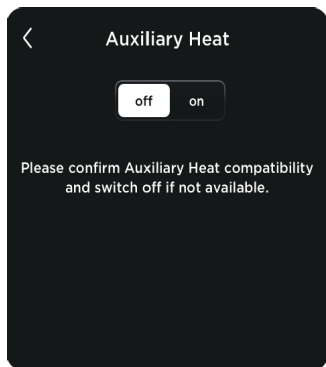
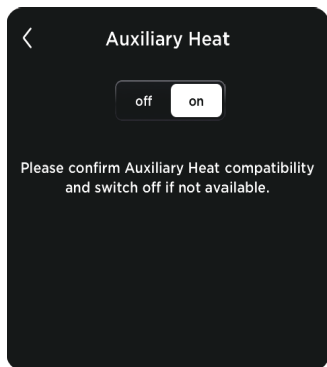


If the Activation Temp is off, you can set the Time Delay. When the aux heat is needed, the aux heat should be activated after the set delay time.



If the Activation Temp is on, you can set the outdoor temperature limit for enabling the aux heat.

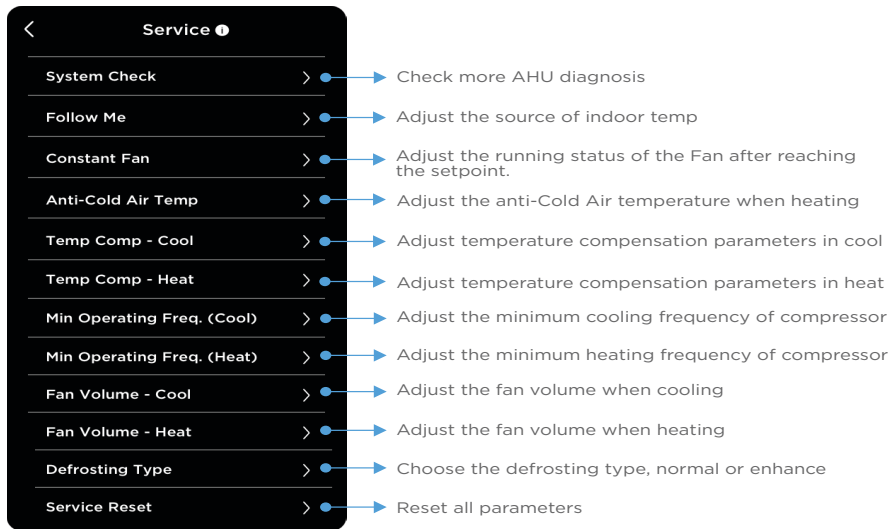
The above functions are only available for certain models. For models that do not support this function, only the On/Off switch function is supported.



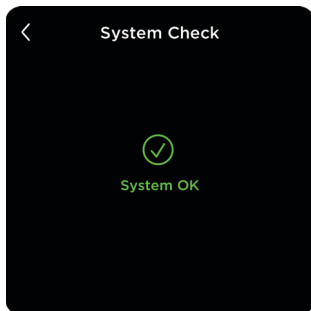
Main Menu - Service Settings

NOTE: To avoid possible damage to the system or loss of functionality, the service settings should only be accessed and used by a qualified, trained technician.

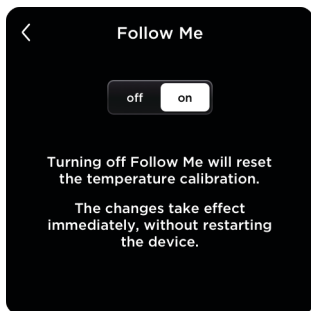
Enter the passcode to access service mode. (passcode: 134679) You must restart the system through your breaker for any changes made to be effective.



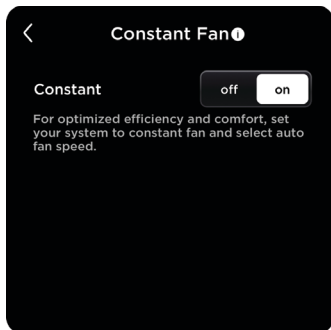
System Check- allows the system will self diagnose any issues when activated. The iCheck feature works the same way but reports faults on the main screen in real time.



Follow Me- Switch it to on, the sensor reading of the thermostat's will be used to control the HVAC. This is the default setting of Follow Me. Switch it to Off, the sensor reading of the HVAC system's returning air (T1) will be used to control the HVAC.



Constant Fan- Switch it to On, the fan will keep running after reaching the setpoint. This is the default setting of Constant Fan. Switch it to Off, the fan will stop after reaching the setpoint.



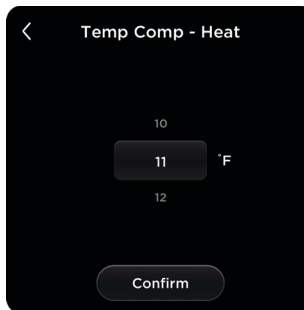
Anti-Cold Temperature- allows for the Anti-Cold feature to be activated or deactivated. The temperature range is 61~82F/16~28C.



Temp Compensation- allows for adjustment of heating and cooling temperature compensation:

- Heating compensation: Range 1⁰F, 14⁰F (1⁰C, 7.5⁰C)
- Cooling compensation: Range -6⁰F, 7⁰F (-3⁰C, 3.5⁰C)

*Only some models can change this setting.



Minimum Operating Frequency- allows the minimum frequency of the compressor to be adjusted:

- Min Operating Freq. (Cool), Default 14Hz, range [10Hz-50Hz]
- Min Operating Freq. (Heat), Default 15Hz, range [10Hz-50Hz]



Fan Volume- Cool and Heat- allows the indoor fan speed to be changed in CFM. Refer to page 12, Main Menu - Fan, for fan speed options for cooling and heating.

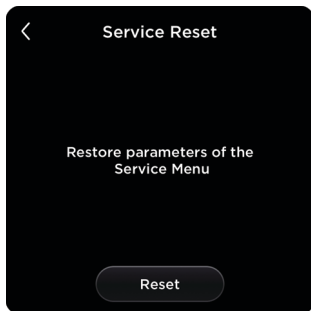


Defrost Type- allows the defrost mode to be changed from normal to enhanced.

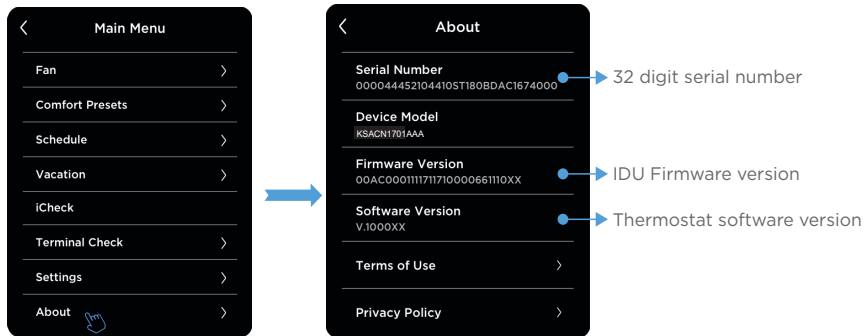
NOTE: This feature is only available on R454B crossover outdoor units.



Service Reset- allows the system to be reset to default settings.

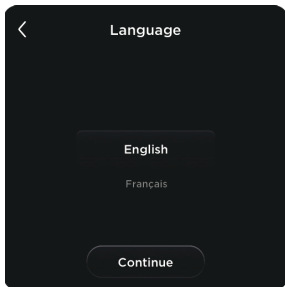


Main Menu - About



COMMUNICATION (24V) SETUP GUIDE

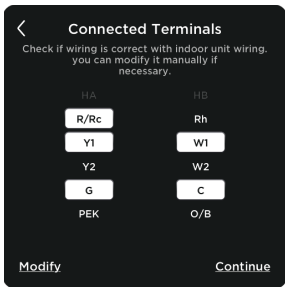
When power is applied to the Smart Thermostat, it will provide step-by-step prompts to assist with configuring the HVAC equipment.



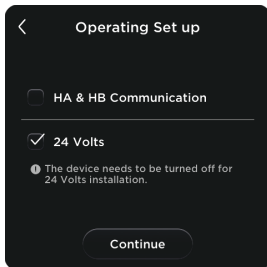
1. Set Language then Continue



2. Set Country and Time Zone

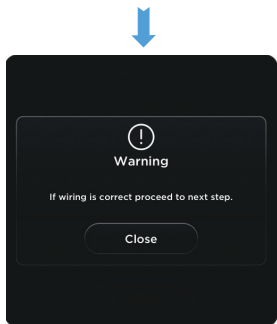


4. Checks for Incorrect Wiring

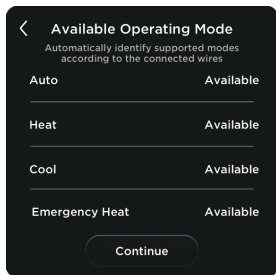


3. Select 24 Volts

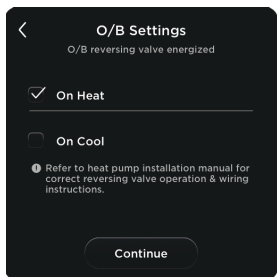
After the connected terminals are automatically detected, you can still manually modify the wiring. After saving, the automatic detection mode will be based on the manually modified wiring.



5. Wiring must be correct to proceed



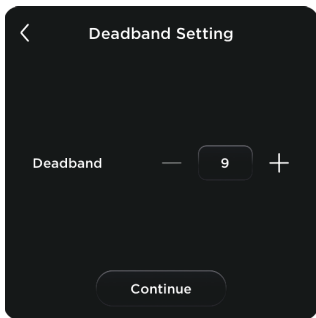
6. Automatically detects modes



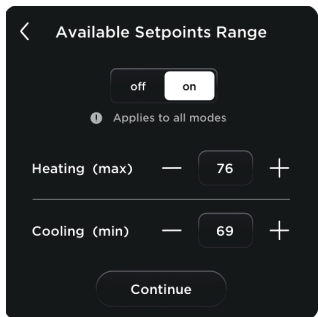
8. Select Direction of O/B Reversing Valve



7. Choose Temperature Units



9. Select Deadband - Auto Mode

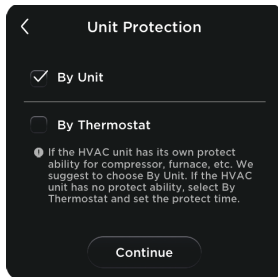


10. Select Setpoint ranges

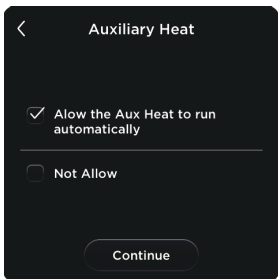
Deadband is the temperature range within which neither the heating nor cooling system functions. It can prevent the system from cycling ON and OFF too frequently and prevent the heating and cooling systems from operating simultaneously.



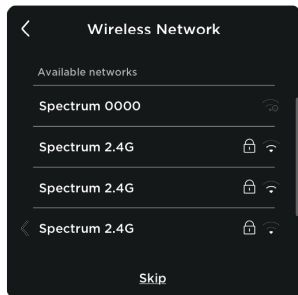
12. Choose Type of Auxiliary Heat



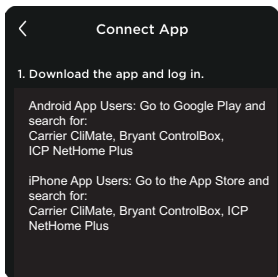
11. Choose by Unit Protectiontemperature



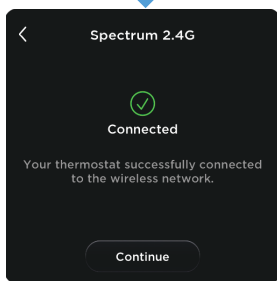
13. Select Automatic Auxiliary Heat Option



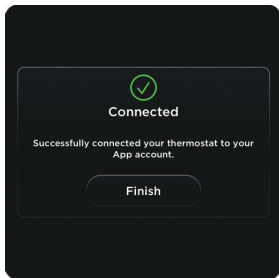
14. Enter password to connect to the network



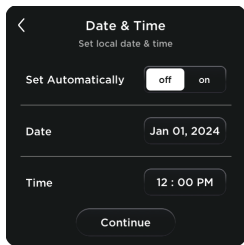
16. Download the corresponding App



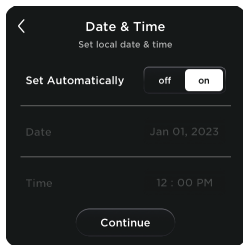
15. Press Continue to generate a QR code



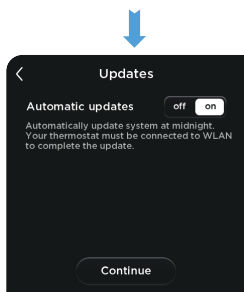
16.1 Press Finish to go to the next screen. finish binding the app



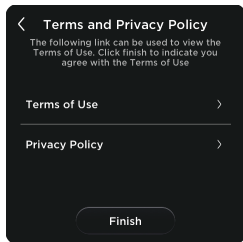
18. It can be set manually if no network connection is available



17. There is no need to set the time if connected to the internet



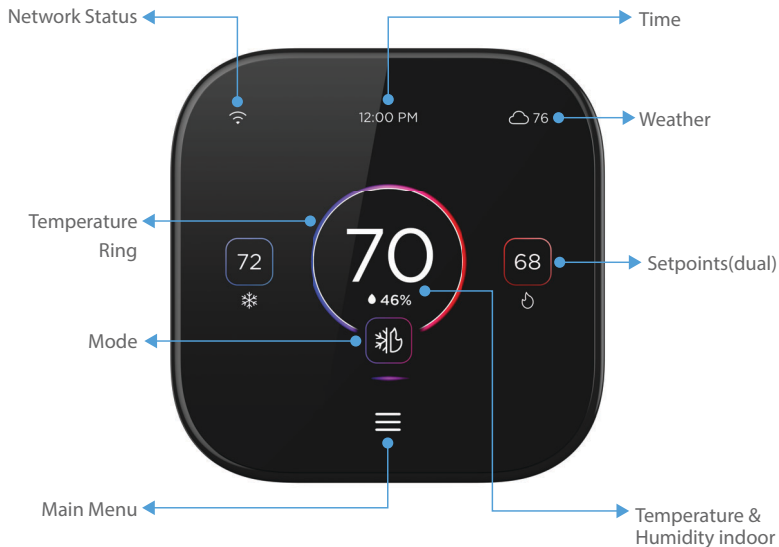
19. For a better experience, it is recommended to enable the Automatic updates feature and bind your app account.



20. Agree to the Terms of Use and Privacy Policy to finish the installation

Main Page 24 Volt Communication

This is the Home Screen for this Thermostat. You can change the setpoints and modes on this page. It will display basic system information.



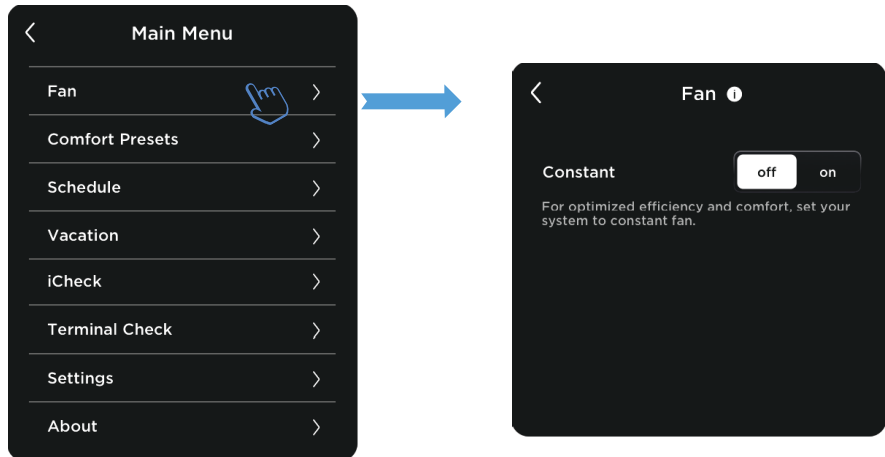
Mode Selection

According to the different patterns of your IDU models automatically adaptation, the most common cases are Heat/Auto/Cool/Fan/Off/Emergency Heat.



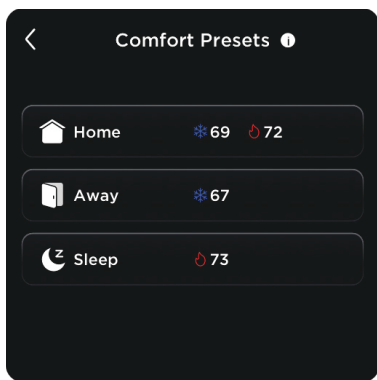
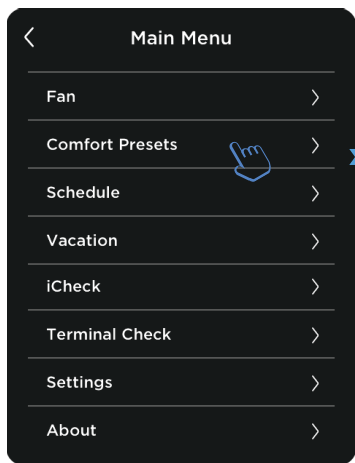
Main Menu - Fan

Constant ON means that the fan will stop after reaching the setpoints. Constant on means that the fan will keep running after reaching the setpoints. 24V doesn't support fan speed selection.



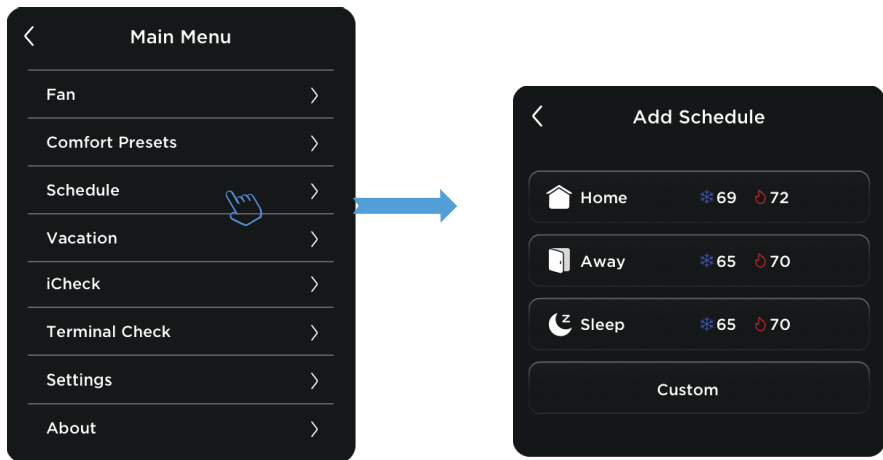
Main Menu - Comfort Presets

Setup the comfort presets can streamline schedule creation, and gain access to quick changes in the app.



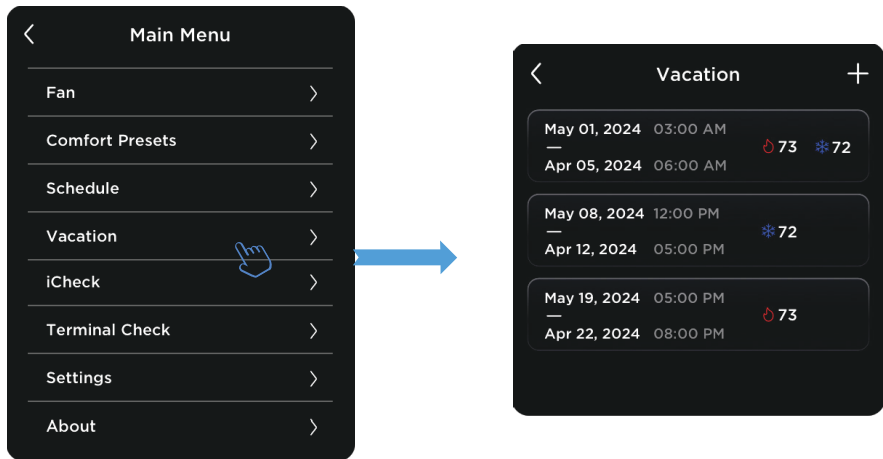
Main Menu - Schedule

In addition to using comfort presets for making your schedule, you can also customize your own “comfort presets”.



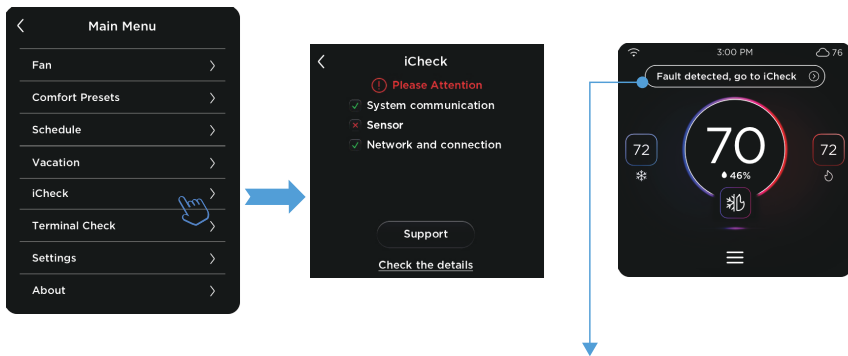
Main Menu - Vacation

When vacation is running, It will not execute scheduled tasks.



Main Menu - iCheck

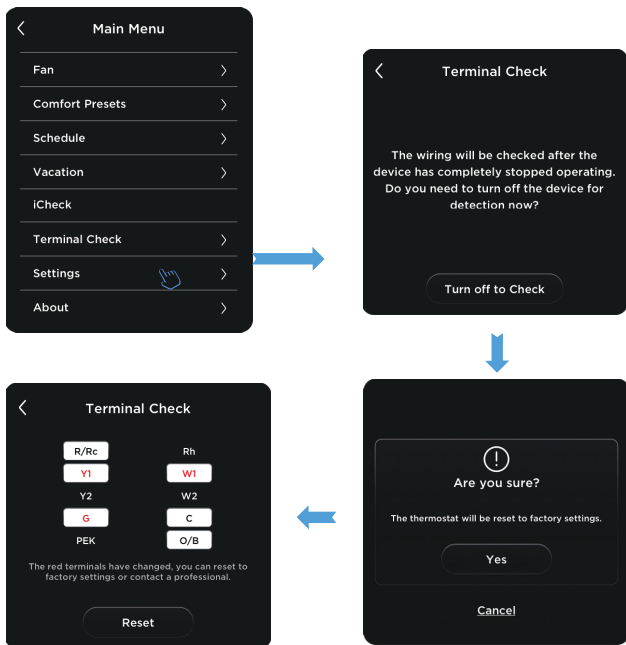
iCheck can make sure your device is running properly, if there are any errors, contact your service provider for service.



At the same time, the device will automatically detect the errors and prompt a fault notification on the main page.

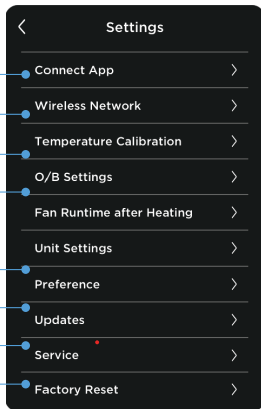
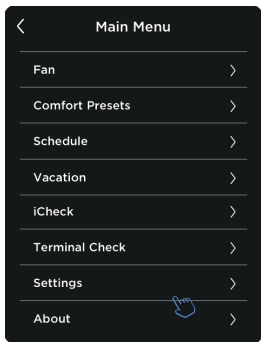
Main Menu - Terminal Check

When the device is in O mode, the thermostat can automatically detect whether the wired terminals are changed and have a notification on the main page. Users can actively enable this feature in settings.



The terminals in **RED** mean the terminals have changed.

Main Menu - Settings



Binding app to unlock more smart features

Connect to Network

Calibrate the temperature of the sensor

O/B reversing valve

Date and time, location, Temperature units

Display brightness, Sound, Available setpoint range

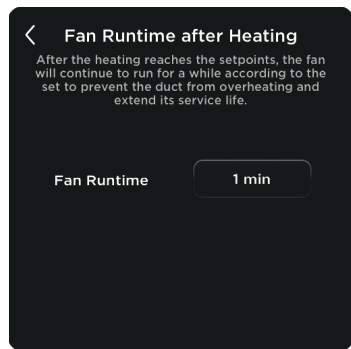
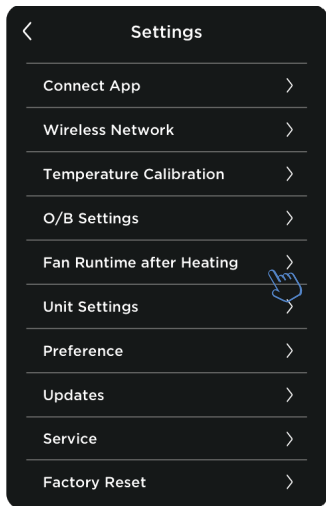
A red dot lights up to remind you when need to update

Service mode/engineer mode

Restores thermostat Settings without changing AHU parameters

Main Menu - Settings Fan Running after Heating

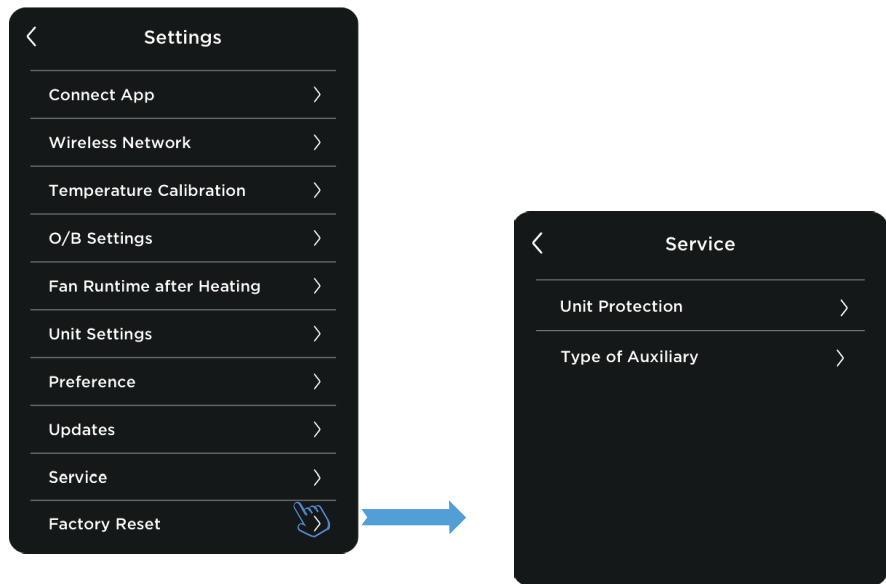
After heating, to prevent the duct overheating and damaging the equipment, the fan will continue to run for a while according to the set. This setting only works on heating, including AUX heat.



After the heating reaches the setpoints, keep fan running for some time

Main Menu - Settings - Service

Enter the passcode to access service mode. (passcode: 134679) You must restart the system through your breaker for any changes made to be effective.



Main Menu - About

