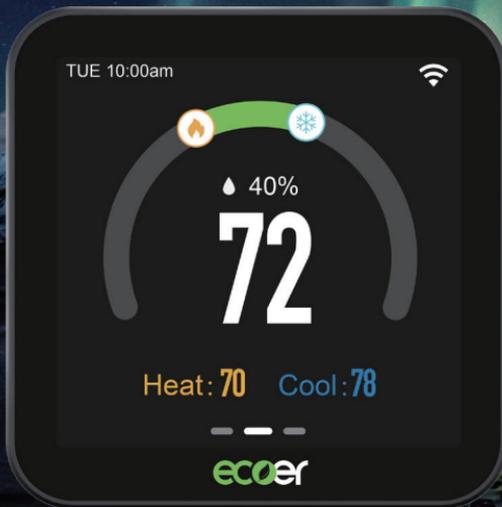




Making your home Green & Smart

Smart Wi-Fi Thermostat



Bright color 4.0" Touch Screen



Voice Command Control



3-Year Limited Warranty



2.4/5G Wi-Fi Compatible



Filter Change Alerts



7 Day / 8 Period Programming

Download the App

Several ways to download the Ecoer Home+ app which helps to control remotely:

- Search for "Ecoer Home+" on Google Play Store or Apple App Store, then download.
- Download the app by scanning the QR code below.

Ecoer Home+



iOS



Android



WE ARE HERE TO HELP.

Model: EST02

Addr.: 43671 Trade Center Place, Suite 100 Dulles, VA 20166

Tel: (703) 348-2538

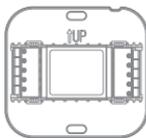
Website: www.ecoer.com

ECOER Thermostat - A smart Choice for Smart Life!

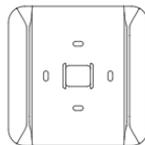
Items included in box:



Smart Wi-Fi Thermostat



Wall Plate



Large Trim Plate



Screws Sets

| | | | |
|------|------|------|------|
| C | C | Dn/H | Dn/H |
| Y/Y1 | Y/Y1 | Y2 | Y2 |
| W/E | W/E | W2 | W2 |
| Rh | Rh | O/B | O/B |
| R/Rc | R/Rc | G | G |

Wiring labels



User Manual

You may also need these tools:



Phillips screwdriver



Level



Pencil



Home Wi-Fi Password

Compatibility

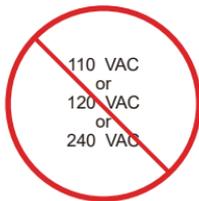
- Conventional
- Gas, Oil, Electric
- Dual Fuel Support
- Humidification / Dehumidification
- Heat Pump (Up to 4H2C) include auxiliary heat or emergency heat

* **Require C-Wire to power the thermostat(24V-AC)**

Incompatible wiring and voltage

Please check your old thermostat for compatibility to see if it:

- Does not work with electric baseboard heat (110VAC~240V AC)
- Does not work with millivolt systems

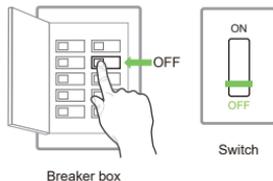


Note: If you are not sure, please contact a professional or call (703)348-2538

Installation

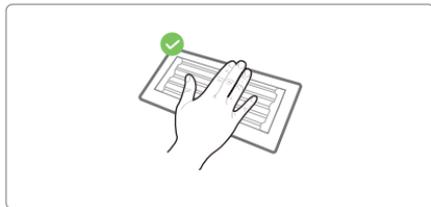
Step 1 Switch off the power

IMPORTANT as this protects you from blowing a fuse in your equipment. To make sure the power is off, change the temperature with your current thermostat and wait for at least 5 minutes to be sure that the system is OFF.



Step 2 Ensure the system is off

Confirm that your system is turned off by turning off heating mode (winter) or cooling mode (summer). Wait for a few minutes until you can't feel any air coming out of the vent.

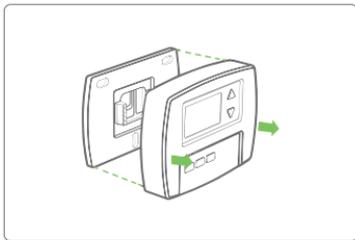


NOTE : If you have a digital thermostat that has a blank display, skip this step.

Step 3 Remove your old thermostat from the wall-plate

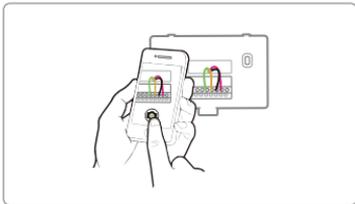
Most thermostats allow you to remove the main unit and provide access to a wall plate which holds the wiring terminals, you can take off the thermostat by grasping and gently pulling. Some thermostats may have screws, buttons, or clasps.

Note: Do not remove any wires from your thermostat at this time!



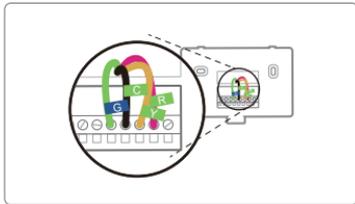
Step 4 Take a picture of the wiring

Take a picture of your existing wall plate's wiring and save it for reference. Make sure you can read the wire terminal labels.



Step 5 Label the wires

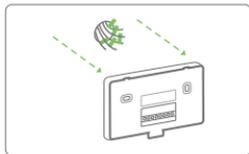
Label the old wall plate with our new thermostat labels from packing box.



Step 6 Disconnect the wires and remove the old wall plate

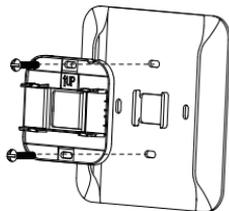
Disconnect the wires from the old thermostat one by one, you may need a screwdriver to release wires from terminals. Unscrew and take off the mounting plate of your old thermostat from the wall.

Note: Wrap the wires around a pen or pencil so they don't fall back.



Step 7 Mount the new wall plate

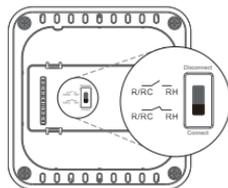
- You can choose to use the trim plate which comes along with your thermostat. The trim plate is useful if you want to hide marks or holes left on the wall of your old thermostat.
- If the trim plate is to be used, then align the mounting holes on the trim plate and wall plate and press them together.
- Pull the wires through the hole in the middle of the wall plate and attach the wall plate to the wall by using the screws sets (screw& anchor). Be sure to check the alignment of your wall plate before and after the wall plate installation.



Use the picture you took before as reference for new thermostat wiring, the following chart is a wiring diagram for common systems, please make sure that a C-wire exists in our old thermostat system.

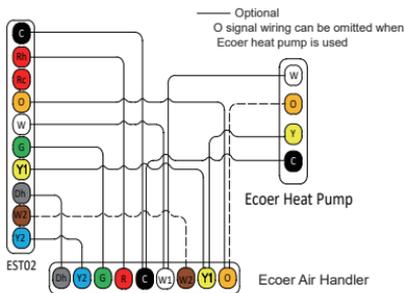
| Terminal | | Conventional System | Heat Pump System |
|----------|---|---------------------------------|---|
| R / Rc |  | Power for cooling, 24V | Power for cooling, 24V |
| Rh |  | Power for heating, 24V | Power for heating, 24V |
| C |  | Common wire, 24V | Common wire, 24V |
| G |  | Fan | Fan |
| Y/Y1 |  | 1st Stage Cool | 1st outdoor Stage Heat |
| Y2 |  | 2nd Stage Cool | 2nd outdoor Stage Heat |
| W2 |  | 2nd Stage Heat | Auxiliary Heat activated at W2 |
| W/E |  | 1st Stage Heat | Emergency Heat activated at W1 |
| O/B |  | ----- | Changeover (reversing valve) connection for heat pump |
| Dh/H |  | Humidification/Dehumidification | Humidification/Dehumidification |

The switch is used to connect R/RC with RH. If you have two power wires (R/RC and RH), please flip the switch to the disconnect side to disconnect R/RC with RH.



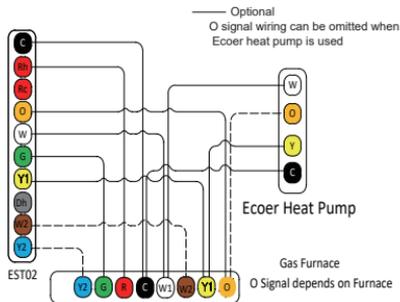
Heat Pump + Electric Heater System (HP + Electric)

Ecoer variable speed heat pump matches with Ecoer air handler and electric heater.



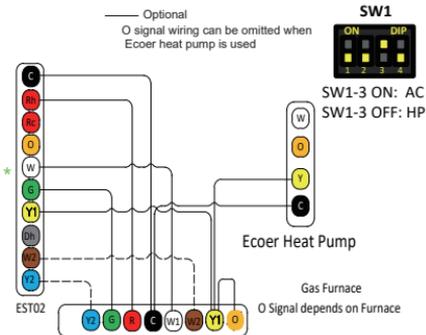
Dual Fuel System (Dual Fuel)

Ecoer variable speed heat pump matches with Gas Furnace.



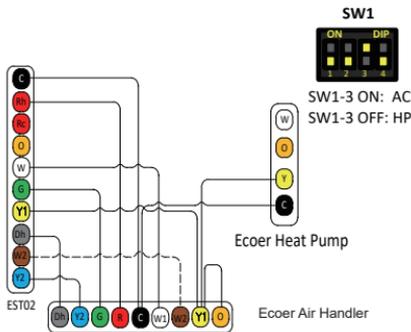
Air Conditioner + Furnace System (AC + Furnace)

Ecoer variable speed heat pump (AC option) matches with Furnace.



Air Conditioner + Electric Heater System (AC + Electric)

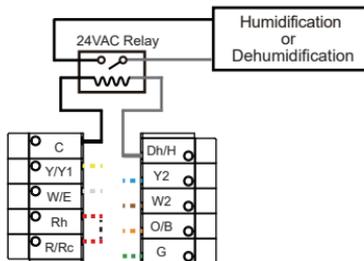
Ecoer variable speed heat pump (AC option) matches with Ecoer air handler and electric heater.



If you need to connect humidification/dehumidification equipment, please refer to one of the following wiring methods according to actual needs.

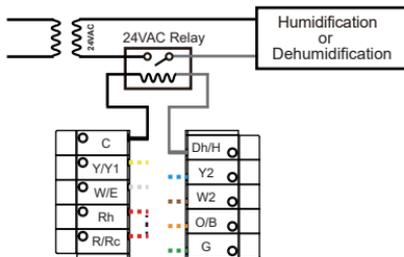
Dry contact

(When the machine adopts dry contact control)



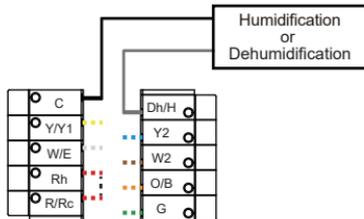
24VAC contact A

(When power consumption is higher than 5VA)



24VAC contact B

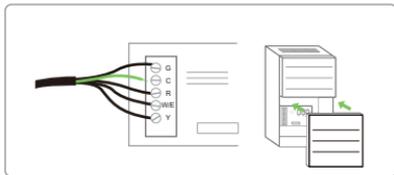
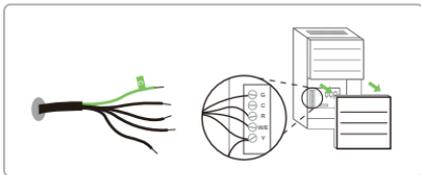
(When power consumption is less than 5VA)



If C-wire does not exist in your system, check the instruction below:

Do you have a spare wire? Yes.

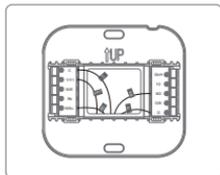
- 1 . Check for spare wire behind your wall plate of old thermostat, if you have a spare wire, connect it to the C terminal on the new wall plate.
- 2 . Remove cover from furnace or heating system, open the heating and cooling system to find the control board where you should find the same terminal labels as of the thermostat.
- 3 . Find the other end of the spare wire, locate the bundle of wire with the same labels as that of your thermostat.
- 4 . Connect the spare wire to the C-terminal,
- 5 . Close the cover to the furnace or heating system.



Step 8

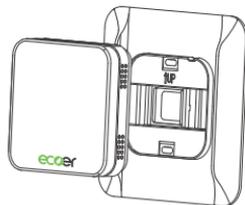
Connect the wires to the new wall plate

Insert your remaining wires into the side (not the front) of their corresponding terminal blocks. Pull wires to ensure wires are securely connected. When all wires are connected well, place excess part of the wires back to the wall.

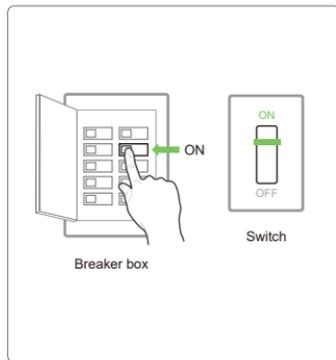


Step 9 Install the thermostat to the wall plate

First aim the four clips of the back plate of the thermostat, then gently push and fit the wiring pole to the terminals on the wall plate.

**Step 10** Power on and enjoy

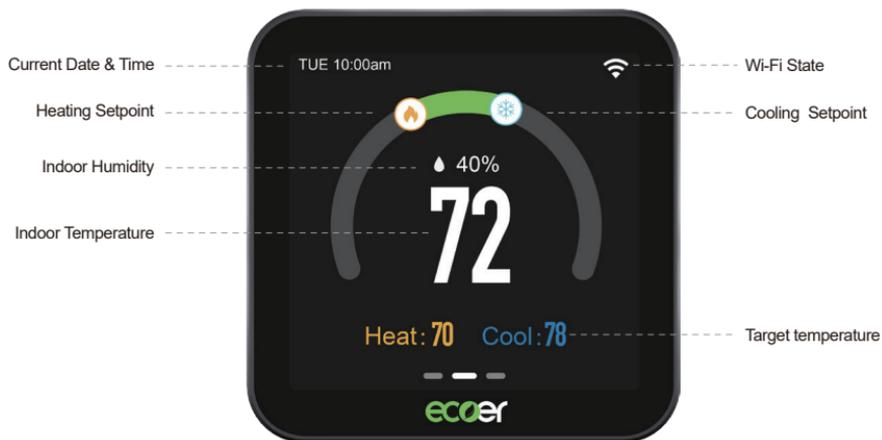
Turn on the switch that controls your heating and cooling system, the thermostat will be powered on and prompt you to start the setup. If you have any trouble installing the device or app, check the below information for help or simply visit our website for installation videos.



Congratulations, you did it!

Say hi to your new thermostat ! To complete, follow the instruction on your thermostat screen.

Device Main Screen



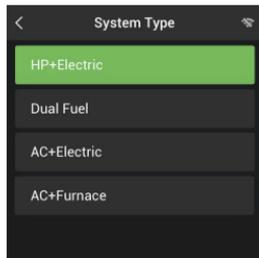
Device Initial Setup

For a convenient and straight forward start to using your new smart thermostat, the device will automatically guide you through the Initialization Setup process upon its initial power-up.

1 Heat Type

Select an HVAC type from the options available for your home:

Heat Pump + Electric, Dual Fuel, AC + Electric or AC + Furnace, select according to your heating system.

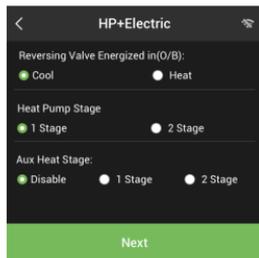


Below is a list of possible examples which may help you to select correctly:

NOTE : If you are not sure of which one to select, contact (703) 348-2538.

If you have a **Heat Pump + Electric** system:

1. Select HP + Electric, and tap it.
2. Follow the on-screen instructions to configure the device according to the actual installation.
3. Tap "Next" button to continue.



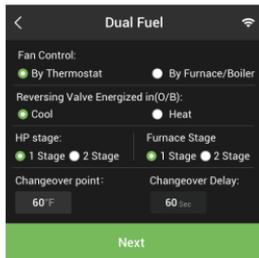
If you have a **Dual fuel system**:

1. Please ensure that the address is properly configured in the Ecoer Home+ app.

2. Select Dual Fuel and tap it.
3. Follow the on-screen instructions to configure the device according to the actual installation.
4. Tap "Next" button to continue.

NOTE : The changeover point will only be valid once you have selected your home address in the Ecoer Home+ app. At that point, it will utilize the ambient temperature of your city sourced from the internet.

If the address is not selected, then the thermostat will only use furnace/boiler for heating demand regardless the changeover point.



If you have an **AC+Electric system**:

1. Select AC + Electric and tap it.
 2. Follow the on-screen instructions to configure the device according to the actual installation.
 3. Tap "Next" button to continue.
-

If you have an **AC + Furnace system**:

1. Select AC + Furnace and tap it.
2. Follow the on-screen instructions to configure the device according to the actual installation.
3. Tap "Next" button to continue.

If you have a Humidifier or Dehumidifier.

1. Enter page Advanced Setting Select on Humidity Device Setting and tap it.
2. Follow the on-screen instructions to configure the device according to the actual installation.
3. Tap "Next" button to continue.

Note: Signal output under different configuration. If you choose humidifier, then you cannot select dehumidifier and vice versa.

| HVAC Type | Setting | Dh/H | G |
|--------------------|-------------|------|---|
| HP/AC+Humidifier | With Fan | √ | √ |
| HP/AC+Humidifier | Without Fan | √ | |
| HP/AC+Dehumidifier | With AC | √ | √ |
| HP/AC+Dehumidifier | With Fan | √ | √ |
| HP/AC+Dehumidifier | Without Fan | √ | |

2 Create your Home

After creating an account, signing in to the Ecoer Home+ app, the App will create a default home for you and you can also be invited to join a home, if you are owner of the thermostat, select one home, and enter address to enable weather forecast, timezone and more information on this device.

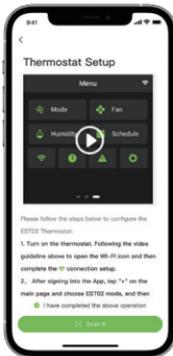
3 Add device

A reliable Wi-Fi connection is required in order to access smart features such as remote access, weather forecast and more. Please follow on-screen instructions to complete the Wi-Fi setup.

If you have your Ecoer thermostat installed by a professional or if an Ecoer Thermostat is installed by yourself while it's not yet connected to Wi-Fi, the App will start right away to connect your thermostat to Wi-Fi and bind the device to your account for remote control.

Please follow the steps below:

1. After powering on the thermostat, select the  on the Menu screen.
2. Choose the desired Wi-Fi network and enter the password. The  in the top right corner will indicate a successful connection.
3. On the Menu screen, select the , then go to "Advanced Settings" and choose "About."
4. Click on the "Mac ID" option, which will display a QR code. Please use the app to scan this QR.



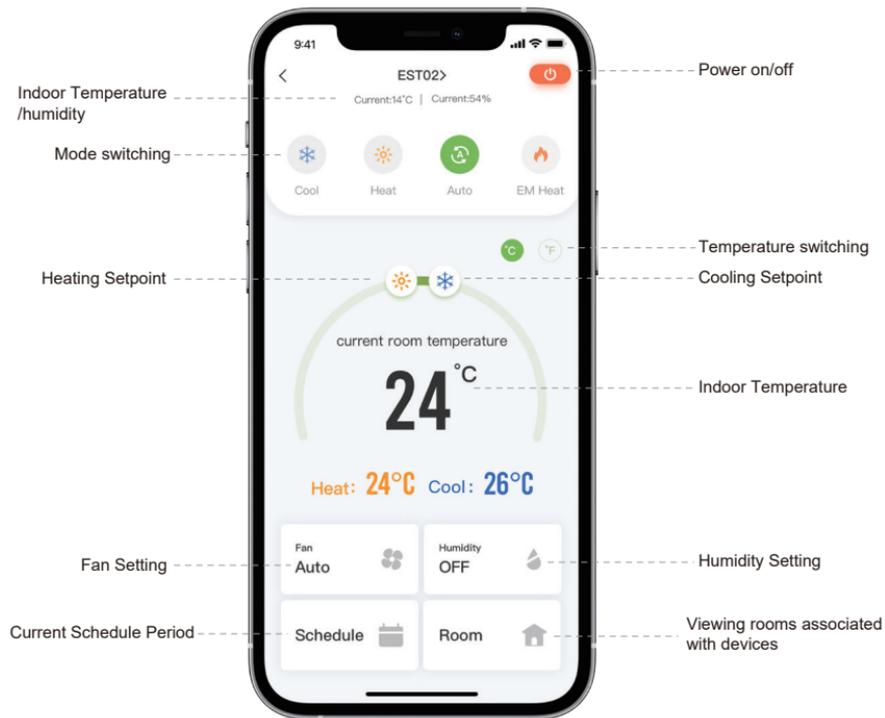
NOTE : You can access the instructional video by scanning the QR code located on the right side.



NOTE : The design of Ecoer Home+ app may subject to change. You can download the latest guide by scanning the QR code right.



APP Main Screen



Additional Features

Except from the above basic settings, Ecoer Smart Wi-Fi Thermostat also provides possibility to connect to the Alexa Assistant, hence helps you to control your room temperature by voice control. Follow our instructions below to get connected with Alexa:

How to connect to Alexa?

- 1 . Download Amazon Alexa App and set up your Alexa-enabled device.
- 2 . Tap "More" button on the bottom-right corner of Alexa app main screen.
- 3 . IMPORTANT Step-link the Skill.
 - 1 Tap "Skills & Games" in Alexa app menu.
 - 2 Type and search "Ecoer Thermostat", then select and tap "ENABLE TO USE" to enable the skill.
 - 3 Enter Ecoer Thermostat App login account to Alexa Skill.

Now you can control your thermostat over Amazon Alexa.

4 . Common commands:

Common commands for Alexa to control ECOER Thermostat:

Alexa, turn (Device Name) on. Alexa, turn (Device Name) off.

Alexa, set (Device Name) mode to Cool/Heat/Auto.

Alexa, Increase (Device Name) by _ degrees.

Alexa, Decrease (Device Name) by _ degrees.

Alexa, Set (Device Name) to _ degrees.

Alexa, what is the (Device Name) set to?

Try out some of the commands and enjoy!

Note: The steps to connect to Alexa may subject to change. You can find the latest guide on the "Ecoer Thermostat" Skill enable page of Alexa App.



Limited Warranty

This document consists of important limited warranty information regarding your claims and accountability, as well as restrictions and exclusions that may apply to you.

1. WHAT THIS LIMITED WARRANTY ENTAILS; DURATION OF COVERAGE

ECOER INC., VA, 20166 USA, warrants to the owner of the enclosed product that the product contained in this box will be free from defects in materials and workmanship for a period of two years from the date of delivery following the original retail purchase. If the product fails to conform to this Limited Warranty during the warranty period, ECOER INC. will, at its sole discretion, either (a) repair or replace any defective product or component; or (b) accept the return of the product and refund the money actually paid by the original purchaser for the product. Repair or replacement may be made with a new or refurbished product or components, at ECOER INC. sole discretion. If the product or a component incorporated within it is no longer available, ECOER INC. may, at its sole discretion, replace the product with a similar product of similar function. This is your sole and exclusive remedy for breach of this limited warranty. Any product that has either been repaired or replaced under this limited warranty will be covered by the terms of this limited warranty for the longer of (a) ninety days from the date of delivery of the repaired product or replacement product, or (b) the remaining warranty period. This limited warranty is transferable from the original purchaser to subsequent owners, but the warranty period will not be extended in duration or expanded in coverage for any such transfer.

2. TOTAL SATISFACTION RETURN POLICY

If you are the original purchaser of the product and you are not satisfied with this product for any reason, you may return it in its original condition within thirty days of the original purchase and receive a full refund.

3. WARRANTY TERMS;

HOW TO RECEIVE SERVICE IF YOU WANT TO CLAIM UNDER THIS LIMITED WARRANTY

Before making a claim under this limited warranty, the owner of the product must (a) notify ECOER INC. of the intention to claim by visiting ecoerconnected.com / support during the warranty period and providing a description of the alleged failure, and (b) comply with ECOER INC. return shipping instructions. ECOER INC. will have no warranty obligations with respect to a returned product if it determines, in its reasonable discretion after examination of the returned product, that the product is an Ineligible product (defined below). ECOER INC. will bear all costs of return shipping to owner and will reimburse any shipping costs incurred by the owner, except with respect to any Ineligible product, for which owner will bear all shipping costs.

4. WHAT THIS LIMITED WARRANTY DOES NOT COVER

This limited warranty does not cover the following (collectively "Ineligible products"): (i) products marked as "sample" or "Not for Sale", or sold "AS IS"; (ii) Products that have been subject to: (a) modifications, alterations, tampering, or improper maintenance or repairs; (b) handling, storage, installation, testing, or use not in accordance with the user's guide or other instructions provided by ECOER INC.; (c) abuse or misuse of the product; (d) breakdowns, fluctuations, or interruptions in electric power or the telecommunications network; or (e) Acts of god, including but not limited to lightning, flood, tornado, earthquake, or hurricane; or (iii) any non-ECOER INC. branded hardware products, even if packaged or sold with ECOER INC. hardware. This limited warranty does not cover consumable parts, including batteries, unless damage is due to defects in materials or workmanship of the product, or software (even if packaged or sold with the product). ECOER INC. recommends that you use only authorized service providers for maintenance or repair. Unauthorized use of the product or software can impair the product's performance and may invalidate this limited warranty.

5. DISCLAIMER OF WARRANTIES

Except as stated above in this limited warranty, and to the maximum extent permitted by applicable law, ECOER INC. disclaims all express, implied, and statutory warranties and conditions with respect to the product, including the implied warranties of merchantability and fitness for a particular purpose. To the maximum extent permitted by applicable law, ECOER INC. also limits the duration of any applicable implied warranties or conditions to the duration of this limited warranty.

6. LIMITATION OF DAMAGES

In addition to the above warranty disclaimers, in no event will ECOER INC. Be liable for any consequential, incidental, exemplary, or special damages, including any damages for lost data or lost profits, arising from or relating to this limited warranty or the product, and ECOER INC. total cumulative liability arising from or related to this limited warranty or the product will not exceed the amount actually paid for the product by the original purchaser.

7. LIMITATION OF LIABILITY

The ECOER INC. online services ("services") provide you information ("product information") regarding your ECOER products or other peripherals connected to your products ("product peripherals"). The type of product peripherals that may be connected to your product may change from time to time. Without limiting the generality of the disclaimers above, all product information is provided for your convenience, "as is", and "as available". ECOER INC. Does not represent, warrant, or guarantee that product information will be available, accurate, or reliable or that product information or use of the services or product will provide safety in your home. You use all product information, the services, and the product at your own discretion and risk. You will be solely responsible for (and ECOER INC. disclaims) any and all loss, liability, or damages, including to your wiring, fixtures, electricity.

Home, product, product peripherals, computer, mobile device, and all other items and pets in your home, resulting from your use of the product information, services, or product. Product information provided by the services is not intended as a substitute for direct means of obtaining the information. For example, a notification provided through the service is not intended as a substitute for audible and visible indications in the home and on the product, nor for a third-party monitoring service that monitors alarm state.

8. YOUR RIGHTS AND THIS LIMITED WARRANTY

This limited warranty gives you specific legal rights. You may also have other legal rights that vary by state, province, or jurisdiction. Likewise, some of the limitations in this limited warranty may not apply in certain states, provinces or jurisdictions. The terms of this limited warranty will apply to the extent permitted by applicable law. For a full description of your legal rights you should refer to the laws applicable in your jurisdiction and you may wish to contact a relevant consumer advisory service. Please visit our website for the complete disclosure of this statement.

FCC Compliance Statement | Compliance Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

This device may not cause harmful interference

This device must accept any interference received, including interference that may cause undesired operation

Change or modifications that are not expressly approved by the manufacturer could void the user's authority to operate the equipment

RF Exposure Information:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 8 inches during normal operation.

Warning: Changes or modifications not expressly approved by ECOER INC could void the user's authority to operate the equipment.



Making your home Green & Smart

Model: EST02

Addr.: 43671 Trade Center Place, Suite 100 Dulles, VA 20166

Tel: (703) 348-2538

Website: www.ecoer.com

V1.3