



ESH 2.5/4.0

# SMARTHOME

## Mini Tank Water Heater INSTALLATION, USE AND CARE MANUAL



SMART ON/OFF  
BUTTON



SMART VOICE  
COMMANDS



SMARTHOME  
READY



ADVANCED ERROR  
DETECTION



DIGITAL PRECISION  
HEATING



INTELLIGENT  
CONTROL BOARD

## HEATING WATER **SMARTER**

"Alexa,  
turn on my Mini Water Heater."



"Ok Google,  
set my Mini Water Heater to 110°"





315-A Industrial Road  
Summerville, SC 29483  
1-866-356-1992  
support@eccotemp.com



### SMARTHOME MINI TANK WATER HEATER SMARTHOME MINI RESERVOIR CHAUFFE-EAU

MODEL / le modèle:	ESH-2.5
RATED POWER / Puissance nominale:	1440W
RATED VOLTAGE / Tension Nominale:	120V ~ 60Hz
TANK CAPACITY / Capacité du réservoir:	2.5 gal
MAX RATED PRESSURE / Pression Maximale Nominale:	150 psi

Conforms To UL STD. 174  
Certified To CSA STD. C22.2 NO. 110

SERIAL NO /  
Numéro de  
Série:

### SMARTHOME MINI TANK WATER HEATER SMARTHOME MINI RESERVOIR CHAUFFE-EAU

MODEL / le modèle:	ESH-4.0
RATED POWER / Puissance nominale:	1440W
RATED VOLTAGE / Tension Nominale:	120V ~ 60Hz
TANK CAPACITY / Capacité du réservoir:	4.0 gal
MAX RATED PRESSURE / Pression Maximale Nominale:	150 psi

Conforms To UL STD. 174  
Certified To CSA STD. C22.2 NO. 110

SERIAL NO /  
Numéro de  
Série:

**⚠ DANGER**



Water temperature over 125°F (52°C) can cause severe burns instantly or death scalds. Children, disabled and elderly are at the highest risk of being scalded. See instruction manual before setting temperature at water heater. Feel water before bathing or showering. Temperature limiting values are available, see manual.

- ⚠ CAUTION!** When a supplemental heat source is connected to the Certified Household Electric Storage Tank Water Heater, provisions must be made to limit the heat source temperature not to exceed that of the water heater thermostat setting.
- ⚠ CAUTION!** If the water heater has been retrofitted with supplemental heating equipment, you must adjust both the thermostat controlling the supplemental heat source located in the water piping and the thermostat on the water heater behind the access panel to the same temperature. Failure to adjust both thermostats to the same temperature can cause loss of proper temperature control.
- ⚠ CAUTION!** To reduce the risk of electric shock or fire, use only on a utility supply having a maximum 125/250 volt, three wire system.
- ⚠ CAUTION!** To reduce the risk of electrical shock, connect ground to water heater. For detailed information refer to instructions.
- ⚠ CAUTION!** Install temperature and pressure protective equipment required by local codes, but no less than a combination temperature and pressure relief valve certified as meeting the requirements for relief valves, ANSI 21.22, by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials. The valve must be oriented, provided with tubing, or otherwise installed so that discharge can exit only within 6 inches above, or at any distance below, the structural floor, and cannot contact any live electrical part.
- ⚠ DANGER!** To reduce the risk of electric shock, disconnect from power supply before replacing temperature-limiting device.
- ⚠ CAUTION!** To reduce the risk of excessive pressures and temperatures in this water heater, install temperature and pressure protective equipment required by local codes and no less than a combination temperature and pressure relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials, as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSIZ21.22. This valve must be marked with a maximum set pressure not to exceed the marked maximum working pressure of the water heater. Install the valve into an opening provided and marked for this purpose in the water heater, and orient it or provide tubing so that any discharge from the valve exits only within 6 inches above, or at any distance below, the structural floor, and does not contact any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances.

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Shop Online: [Eccotemp.com](http://Eccotemp.com)



Store Locator: [Eccotemp.com/locator](http://Eccotemp.com/locator)



# ECCOTEMP SMARHTHOME MINI TANK WATER HEATER

## Use & Care Manual

With Installation Instructions for the Installer

APPLICATION

Point Of Use

INSTALLATION

Indoor

CAPACITY

2.5 gal / 4 gal

### Safety Information

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## CONGRATULATIONS!

You have just purchased a new Eccotemp Mini Tank Water Heater. This will open a world of possibilities where you can enjoy hot water!

We highly suggest you take the time to read through all of the safety and installation procedures in this manual before attempting to install your new Mini Tank Water Heater.

Should you have any questions, please feel free to visit our helpdesk located at: [support.eccotemp.com](mailto:support.eccotemp.com)

— PLEASE RETAIN THE INSTRUCTION MANUAL FOR FUTURE REFERENCE —

## FOR YOUR RECORDS

Write your serial number here: # \_\_\_\_\_

You can find your serial number on a label located on the side of the appliance or box. Staple your proof of purchase here. Proof of original purchase date is needed to obtain service under the warranty.

## READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your water heater properly. A little preventive care on your part can save you time and money over the life of your water heater. You will find many answers to common problems in the Troubleshooting Guide. If you review the chart of Troubleshooting Tips first, you may not need to call for service.

## READ THE SAFETY INFORMATION

Your safety and the safety of others are very important. There are many important safety messages in this manual and on your water heater. Always read and obey all safety messages. This is the safety alert symbol. Recognize this symbol as an indication of Important Safety Information! This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and the words: **“DANGER”**, **“WARNING”**, **“CAUTION”** or **“NOTICE”**. These words mean:

**⚠ WARNING!** A potentially hazardous situation that could result in death or serious injury and/or damage to property.

**⚠ DANGER!** An imminently hazardous situation that will result in death or serious injury.

**⚠ CAUTION!** A potentially hazardous situation that may result in minor or moderate injury.

**⚠ NOTICE!** Attention is called to observe a specified procedure or maintain a specific condition.

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## IMPORTANT SAFETY INSTRUCTIONS

**⚠ WARNING! When using electrical appliances, safety precautions to reduce the risk of fire, electric shock or injury to persons should be followed, including:**

1. READ ALL INSTRUCTIONS BEFORE USING THIS WATER HEATER.
2. This water heater must be grounded. Connect only to properly grounded outlet. See POWERING THE WATER HEATER found on page 13.
3. Install or locate this water heater only in accordance with the provided installation instructions.
4. Use this water heater only for its intended use as described in this manual.
5. Do not use an extension cord with this water heater. If power is not available adjacent to the water heater, contact a qualified electrician to have a receptacle properly installed.
6. As with any appliance, close supervision is necessary when used by children.
7. Do not operate this water heater if it has a damaged cord or plug, if it is not working properly, or if it has been damaged or dropped.
8. Only qualified service personnel should service this water heater. Contact nearest authorized service facility when questions arise or service is required.

### KEEP THESE INSTRUCTIONS

The manufacturer and/or distributor is not responsible for damages caused by improper installation, or failure to follow the instructions in this manual.

A QUALIFIED, LICENSED TECHNICIAN IS RECOMMENDED TO INSTALL THE WATER HEATER AND CONDUCT ALL SUBSEQUENT SERVICE WORK AND/OR MAINTENANCE.

### IMPORTANT!

FILL THE TANK COMPLETELY FULL WITH WATER AND HAVE WATER FLOWING FROM THE HOT WATER FAUCET BEFORE ACTIVATING POWER TO THE HEATER FOR THE FIRST TIME OR DAMAGE WILL RESULT.

### ⚠ CAUTION!

Hydrogen gas can be produced in a hot water system served by this heater that has not been used for a long period of time (generally 2 weeks or more). Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the nearest and most distant sink being served by this water heater before using any electrical appliance connected to the hot water system (i.e. Dishwasher). If hydrogen gas is present, there will probably be an unusual sound such as air escaping through the faucet as the water begins to flow. There should be no smoking or open flame near the faucet at this time.

# General Information

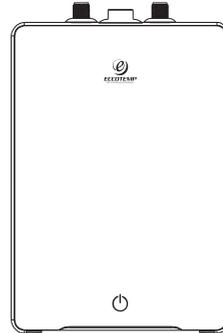
The Eccotemp **SMARTHOME** Mini Tank Water Heater can be used in most boats, campers, tiny homes, RV's, homes, under the sink, offices, cottages, kitchens, utility rooms, apartments, and food trucks. Eccotemp **SMARTHOME** Mini Tank models are designed to supply hot water for all hand wash and kitchen sinks in a residential environment.

Eccotemp **SMARTHOME** Mini Tank models can replace traditional central water heaters, thereby conserving water and reducing energy waste.

The Eccotemp **SMARTHOME** Mini Tank Water Heaters are lightweight, compact, and manufactured for easy installation. Eccotemp **SMARTHOME** Mini Tank models can be mounted on the wall with included hardware, or they can be placed freestanding.

Eccotemp **SMARTHOME** Mini Tank models are designed to operate at 150-psi maximum water pressure. Install a pressure-reducing valve if your water pressure is greater than 150-psi.

Eccotemp **SMARTHOME** Mini Tank Water Heaters also come with an app for your mobile device that can be downloaded from the Apple App Store and the Google Play Store. Search for "Eccotemp" to easily find the app, download it, install it, and begin using the app to complete your setup. Once you have the app set up, you can use it to adjust the temperature through your smart phone, or **SMARTHOME** devices, to increase the energy efficiency of your home.



**⚠ CAUTION! The manufacturer cannot be responsible for the damage caused by improper installation or by failure to follow instructions in this manual. Comply with the Installation Instructions before connecting to electrical outlet.**

**⚠ CAUTION! The thermostat has been pre-set at the factory to 125°F (51.7°C) or lower to reduce the risk of scalding injuries.**

**⚠ WARNING! Installer should review the contents of this manual with the owner upon completion of the installation, and the manual should remain with the owner and placed in a location close to the water heater.**

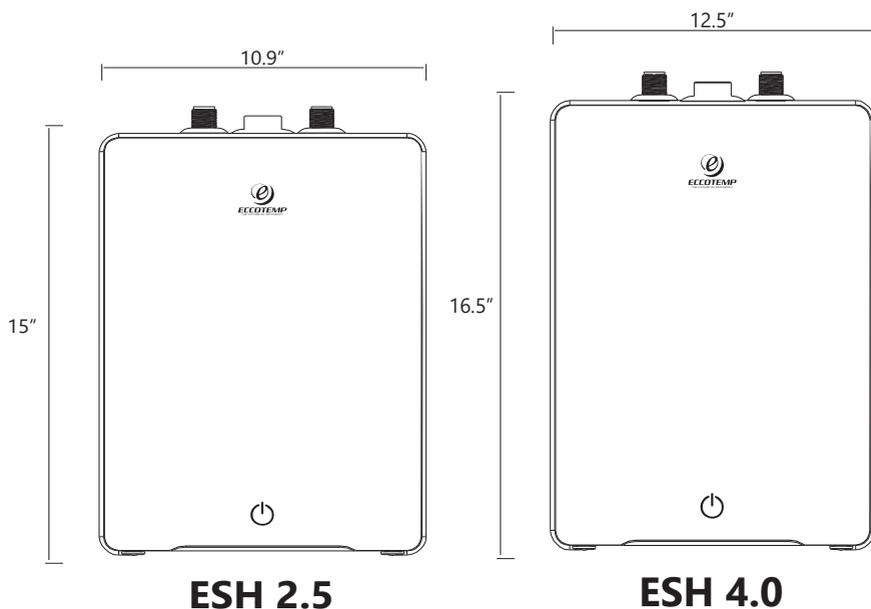
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## Technical Specifications

### Models: Eccotemp SMARTHOME Mini Tank ESH 2.5 and ESH 4.0

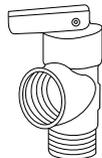
There are currently two Eccotemp **SMARTHOME** Mini Tank models, a 2.5-gallon and 4-gallon. The pressure vessel (water tank) is welded, glass-lined steel and is equipped with an anode rod. Water is supplied by standard 1/2 Inch NPT connections.

The water heater is equipped with a thermostat and a high limit temperature switch that can be controlled by the Eccotemp **SMARTHOME** app or by the manual controls. Also, a pressure relief valve is supplied with your water heater.



**▲ NOTICE!** To use WIFI settings you must ensure the manual temperature control knob is in WIFI mode.

### INCLUDED ACCESSORIES



3/4 inch Temperature and  
Pressure Relief Valve



Mounting Plate

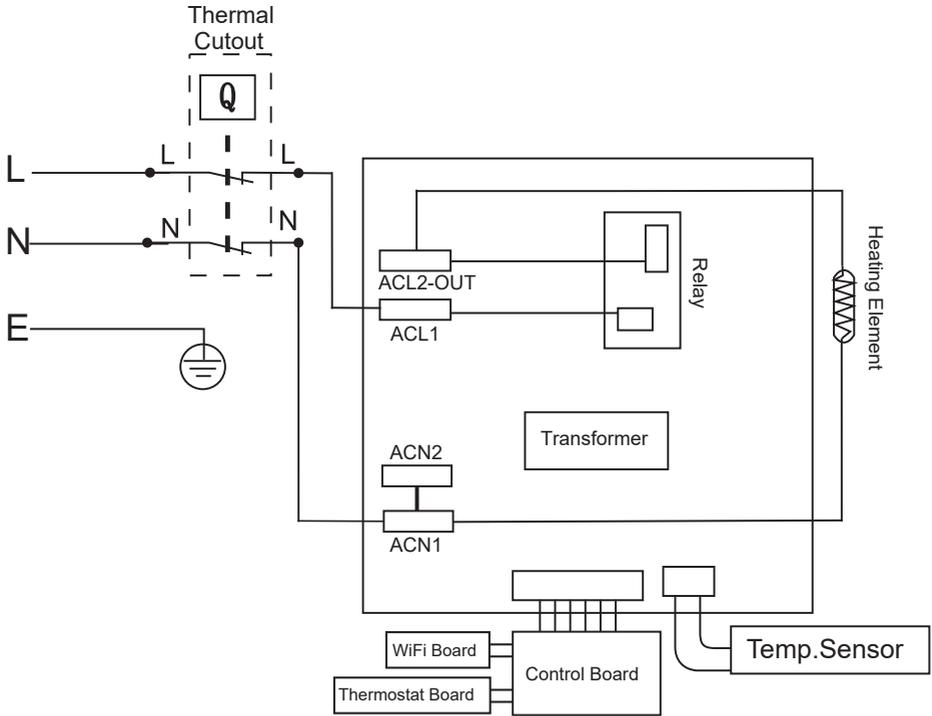


Mounting Anchors

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# Technical Specifications

## Wiring Diagram



## Electrical, Pressure and Recovery Specifications

Technical Data			
MODEL	Unit	ESH-2.5	ESH-4.0
Capacity	Gallons	2.5	4.0
Voltage	VAC	110-120	110-120
Power @ 120 VAC	Watts	1440	1440
Max. Water Pressure	Psi	150	150
Weight (empty)	Lbs.	20	25
Amperage	Amps	12	12
Phases		1	1
Pipe Fittings	Inches	1/2 Inch NPT	1/2 Inch NPT

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# Installation Instructions

A licensed professional should complete the installation adhering to all state and local codes. The manufacturer will not be liable for any damages because of failure to comply with these installation instructions or because of improper installation performed by an unqualified installer.

## CHOOSE A LOCATION

Select a location that allows ease of access for maintenance, ideally with at least 9 inches of clearance at the top from any ceiling or cabinet interior.

**Note:** Only install in a vertical position.

### Free Standing

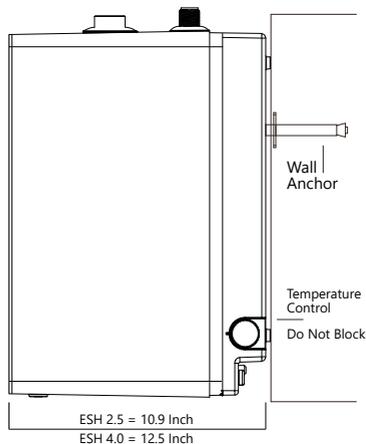
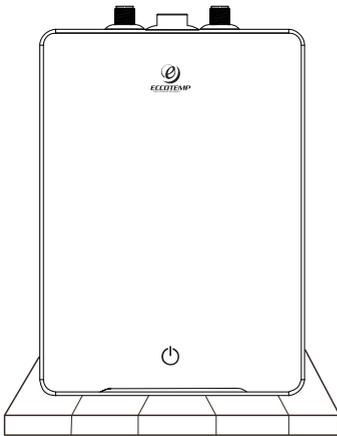
Sit on the floor under a sink or in a cabinet, upright, as pictured in the diagram below and on the front cover of this manual.

**Note:** Make sure to leave at least nine (9) inches of clearance above your water heater.

### Wall Mounted

Fasten the supplied mounting bracket to the wall. Use screws that are suitable for the wall material and the weight of the water heater filled to capacity (ESH-2.5-41 lbs.; ESH-4.0-57 lbs.). Hang the water heater on the bracket and pull downwards on the water heater to ensure that both fingers of the bracket are seated in the mounting slots.

**Note:** Confirm your water piping orientation (hot and cold) before wall mounting.



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# Installation Instructions

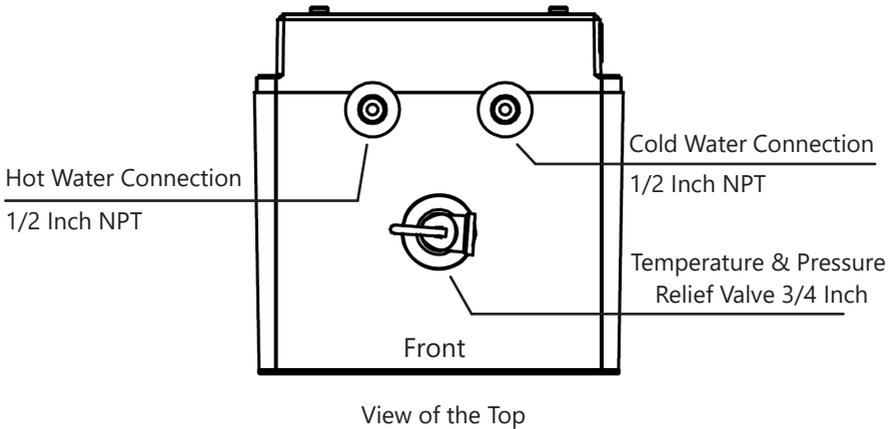
## WATER CONNECTIONS

Water connections should be in close orientation to the install site. Confirm there is enough allowance for the water intake and outtake hoses to reach the water heater.

**Note:** If your water pipes are copper or bronze be sure to use dielectric connections to prevent corrosion. Failure to do so may cause damage to your tank and void your warranty. In order to protect the water heater from heat damage due to soldering, solder a piece of tubing to a threaded union fitting before screwing the union to the tank.

1. Install a shut off valve in line with the cold-water pipe.
2. Connect the cold water pipe to the inlet nipple, marked with a blue label.
3. Connect the hot water pipe to the outlet nipple, marked with a red label.

**⚠ NOTICE: Do not attempt to remove rubber washer.**



**IMPORTANT:** Failure to provide dielectric insulation may result in premature tank or nipple failure and may void your warranty. The Temperature & Pressure Relief valve (T&P valve) is for servicing and the valve should be in the open position when the water heater is in operation. **DO NOT APPLY HEAT DIRECTLY TO INLET OR OUTLET CONNECTIONS.**

# Installation Instructions

## TEMPERATURE & PRESSURE RELIEF VALVE

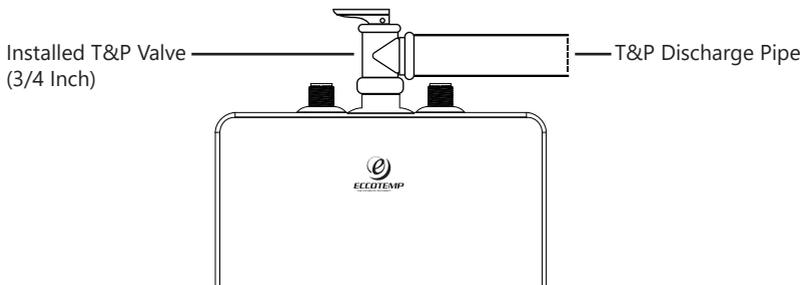
CLOSED SYSTEM THERMAL EXPANSION: Periodic discharge of the relief valve or failure of the element gasket may be due to thermal expansion in a closed water supply system. The water utility supply meter may contain a check valve, backflow preventer or water pressure-reducing valve that will create a closed water system. During the heating cycle of the water heater, the heated water expands causing pressure inside the water heater to increase. The T&P relief valve may discharge hot water under these conditions that result in a loss of energy and a build up of lime on the relief valve seat. To prevent this from happening, there are two recommendations:

1. Install a diaphragm-type domestic hot water expansion tank (suitable for potable water) on the cold water supply line. The expansion tank must have a minimum capacity of 1.5 U.S. gallons for every 50 gallons of stored water.
2. Install a 125-PSI pressure relief valve in the cold water supply line. Make sure the discharge of this valve is directed to an open drain and protected from freezing.

Included with your water heater is a 3/4 inch temperature and pressure relief (T&P valve) that is certified by a nationally recognized laboratory. This is designed to reduce the risk of excessive pressures and temperatures in this water heater and should be installed as directed by local codes. The T&P valve is marked with a maximum pressure, which does not exceed the maximum working pressure of the water heater (150 psi).

**Note:** If using a different temperature and pressure relief valve other than the one provided with your purchase, please ensure that the maximum PSI marking on the valve DOES NOT exceed the marked maximum working pressure of the water heater.

1. Install the 3/4 inch T&P valve supplied with the water heater into the large threaded opening located at the top of the water heater.
2. Attach a discharge pipe from the T&P valve terminating at a sink or drain. Do not cap or plug the end of the discharge pipe.



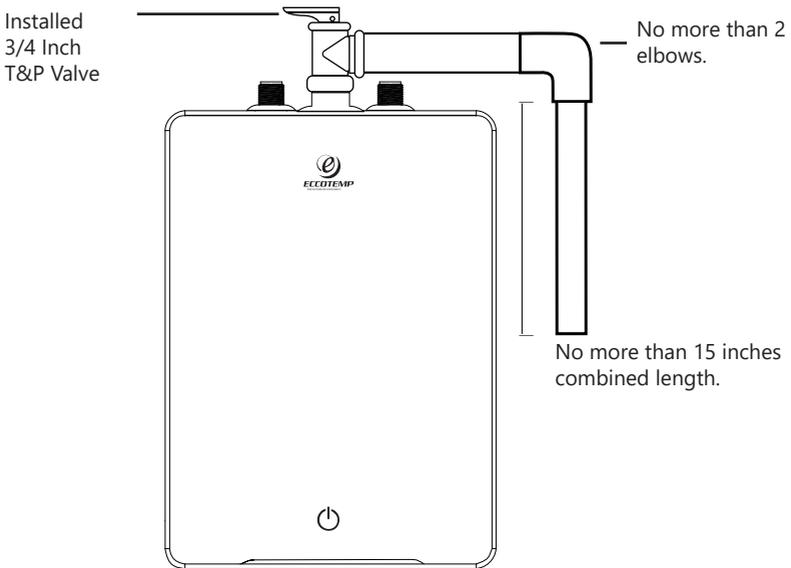
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# Installation Instructions

## TEMPERATURE & PRESSURE RELIEF VALVE

A discharge line should be installed and exit only 6 inches above, or at any distance below, and should not come in contact with any live electrical part. The T&P discharge opening must not be blocked or reduced in size under any circumstances.

**IMPORTANT:** Failure to provide dielectric insulation may result in premature tank or nipple failure and may void your warranty. The T&P valve is for servicing and the valve should be in the open position when the water heater is in operation. **DO NOT APPLY HEAT DIRECTLY TO INLET OR OUTLET CONNECTIONS.**



### Installing the T&P Valve Discharge Pipe:

1. Must NOT be smaller in diameter than the outlet diameter of the valve, or have any reducing couplings.
2. Must NOT be plugged or blocked.
3. Must be made of suitable material for hot water.
4. Must not be over 15 inches in length.
5. Must not have more than two elbows.
6. Must terminate at an adequate drain.
7. Must not have a shut off valve between relief valve and tank or relief valve and termination of discharge.

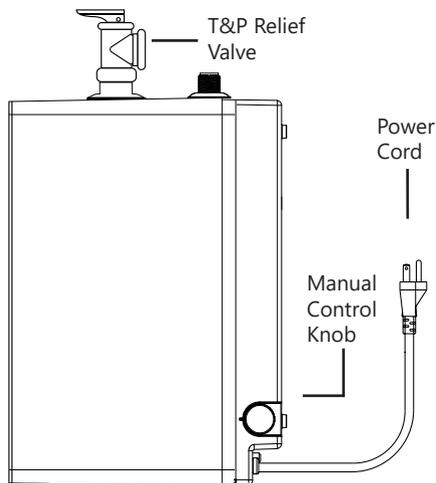
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# Getting Started

## FILLING THE WATER HEATER

Before connecting the power, fill the tank and system with water and check for leaks. To be sure that all remaining air is out of the water system, open the hot water faucets on your fixtures until constant water flows. Any air remaining in the tank will cause the water heater element to fail.

1. Open the hot water faucet.
2. Open the cold water supply valve.
3. When continuous water flows out of the faucet, the tank is filled.
4. Close the hot water faucet.
5. Check entire system for leaks.



## POWERING THE WATER HEATER

**⚠ CAUTION! Before powering the water heater, be sure that the system is completely filled with water and ALL AIR IS REMOVED.**

To be certain that all of the air is out of the water heater, open the HOT water faucet on the fixtures until constant water flows from them. If air remains in the tank, the element will be damaged when the electric cord is plugged in.

The Ecotemp **SMARTHOME** Mini Tank water heater comes equipped with a power cord that is intended to plug into a standard 110/120v receptacle. Adhere to all pertinent state and local codes. The Ecotemp **SMARTHOME** Mini Tank was manufactured and wired in accordance with ETL requirements.

Powering Your Ecotemp **SMARTHOME** Water Heater:

1. Plug your Mini Tank to a grounded outlet.
2. Adjust the temperature of the water heater either by the manual temperature controls or the **SMARTHOME** app. Manual temperature controls are located towards the back on the right side.
3. Allow up to 25 minutes to achieve desired set temperature.

The Ecotemp **SMARTHOME** Mini Tank Water Heater comes equipped with an overheat sensor with a manual reset; also known as the temperature high limit. This device has been factory installed to interrupt the power supply in the event of a thermostat failure. The manual reset is located on the back of the mini in the middle at the bottom. If you have wall mounted your water heater, you may need to unmount it to reach the reset switch.

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# Eccotemp SMARTHOME Mobile App

## Connect your Water Heater to your Smart Devices

The Eccotemp **SMARTHOME** Mini Tank Water Heater has an easy to use mobile app that will allow you to control functions such as ON/OFF and temperature adjustments. Our mobile app is compatible with **SMARTHOME** devices, such as Amazon Alexa and Google Home, giving you voice command capability. Let the **SMARTHOME** app tell you exactly how much money you spend heating water.



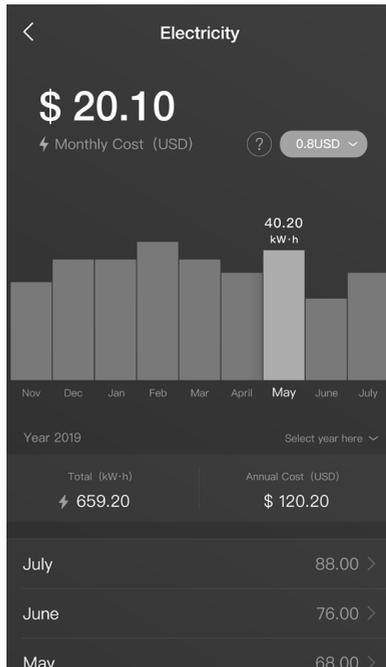
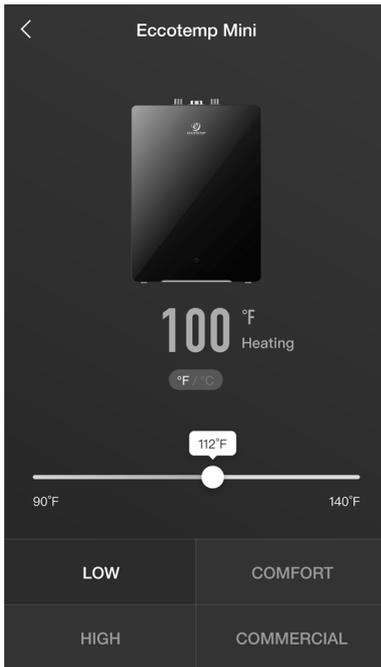
### Temperature

The temperature of the ESH can be remotely changed from Eccotemp app.



### Statistics

The Eccotemp app allows you to have a record of all device statistics.



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# Eccotemp SMARTHOME Mobile App Continued...



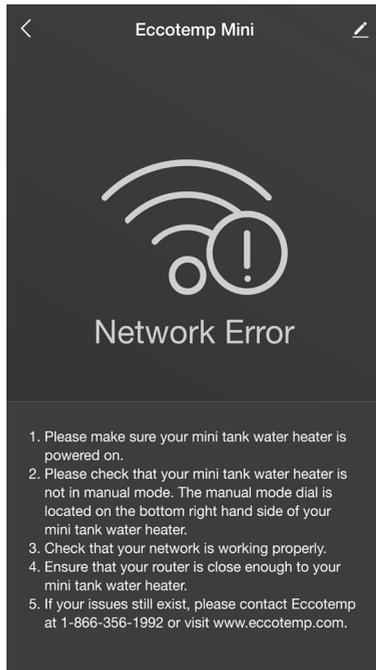
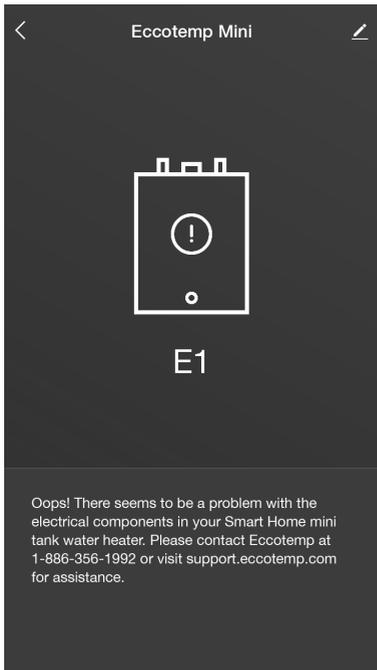
## Error Codes

The Eccotemp app has a troubleshooter to diagnose any device errors.



## Network Error

The built in network troubleshooter will tell you if there is a WIFI problem.



Have a problem with your Eccotemp ESH? Our **SMARTHOME** app can tell you exactly what the problem is. Download it today to unlock your Eccotemp **SMARTHOME** ESH's full capabilities. Simply search for "Eccotemp" on the Apple App Store or Google Play.

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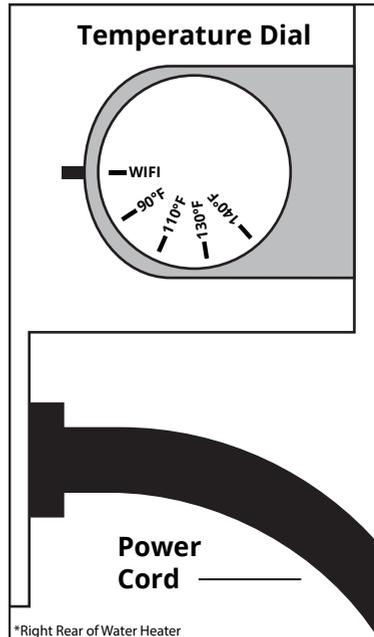
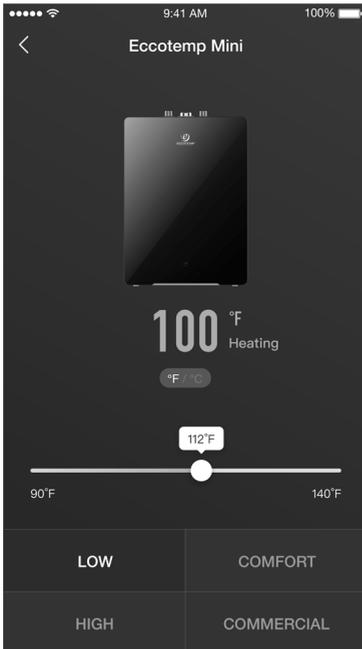
# Getting Started

## SETTING TEMPERATURE

**⚠ WARNING!** This water heater is designed for 110/120v service - **DO NOT CONNECT TO ANY OTHER VOLTAGE.** Failure to use proper voltage may result in personal injury and/or property damage. If the supplied electrical power cord is either damaged or not long enough, do **NOT** use an extension cord. Have a licensed electrician replace the power cord.

**Congratulations!** You are now ready to use your water heater. Run the hot water at a nearby sink and evaluate the hot water temperature. Make any temperature adjustments using the section below.

## ADJUSTING YOUR THERMOSTAT



**Manual Mode:** Turn the dial in either direction to adjust your temperature up or down. Turn clockwise to increase temperature and turn counterclockwise to decrease temperature. Repeat this step until you achieve your desired temperature.

**Using the App:** When your Mini Tank temperature dial is set to WIFI, it will connect to your smart devices and smart phone to allow you to change the temperature and access the app's other features.

**Note:** When in manual mode you **WILL NOT** be able to control the Mini Tank remotely through the **SMARTHOME** app.

PLEASE NOTE: MINI TANKS ARE FOR INDOOR PERMANENT INSTALLATIONS ONLY. BEFORE POWERING THE WATER HEATER, BE SURE THAT THE SYSTEM IS COMPLETELY FILLED WITH WATER AND ALL AIR IS REMOVED. THIS MANUAL AND ALL ECCOTEMP CONTENT IS SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE VISIT [SUPPORT.ECCOTEMP.COM](http://SUPPORT.ECCOTEMP.COM) FOR MORE INFORMATION.

# Getting Started

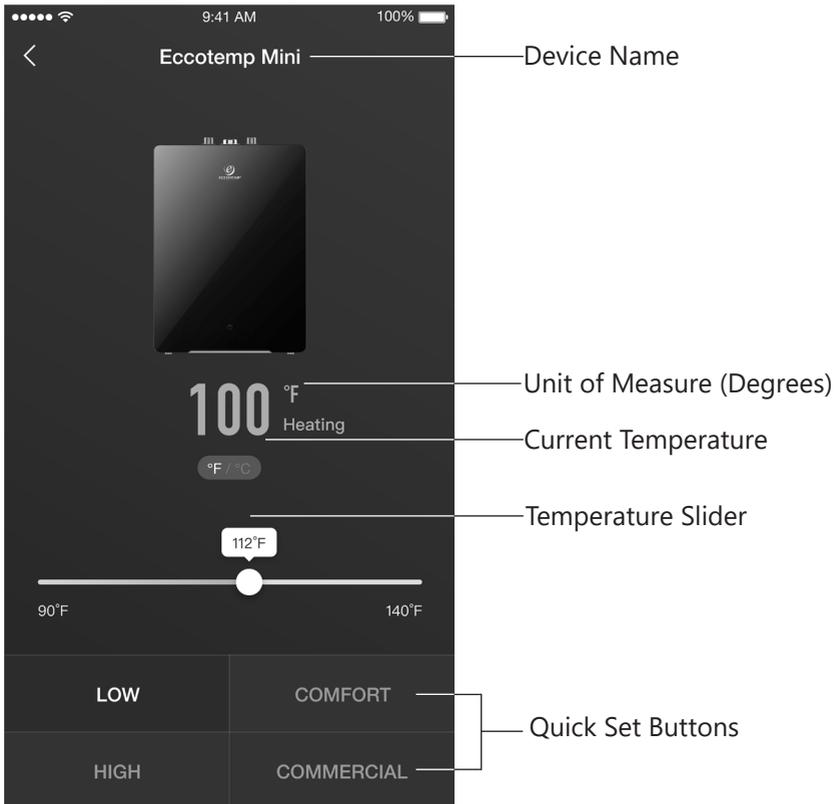
## USING THE APP

### 1. Download the App to get Started

Find and download the Eccotemp smart phone app on the Apple App Store or the Google Play Store by typing "Eccotemp" into the search panel.

### 2. Setup and Login

Once the app is installed, create a login and connect the app to the water heater. Follow the directions on screen and make sure the temperature knob, located on the back right side of the water heater, is set to WIFI mode to complete the process.



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# Getting Started

## Using the App

### 3. Using the App

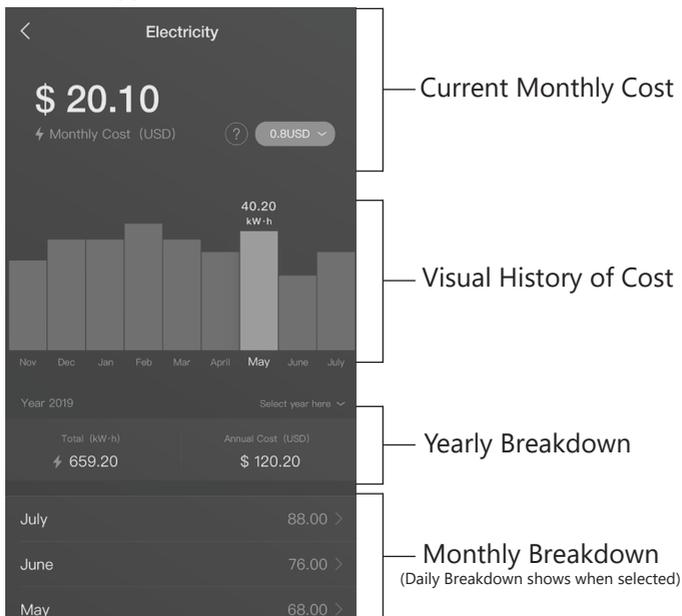
After connecting the **SMARTHOME** app to the Mini Tank, you will be able to remotely control the temperature and on/off status of the Mini Tank water heater. There is an energy statistics screen that will allow you to track your usage and help you manage your water heater's energy consumption. Regularly using and reviewing the app will help you fine tune your water heating needs, while helping you use less resources to do so, ultimately saving you money.

### 4. Getting Connected

Connect your Eccotemp **SMARTHOME** Mini Tank to other **SMARTHOME** devices like Amazon Alexa and Google Home. Once connected, the Eccotemp **SMARTHOME** Mini Tank can accept voice commands such as, "Ok Google, turn my mini off."

### 5. Other Button Functions

- Button blinking rapidly for 120 seconds: This is when the mini is in WIFI connection mode. To start or repeat connection mode hold down the on/off button for 10 seconds.
- Solid blue power button means the mini is off.
- When using the manual mode dial, the Eccotemp smart app will not work.
- The Mini Tank water heater will default to 118 degrees fahrenheit if a temperature is not set with the app or the knob.



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# Getting Started

## Using Voice Commands

The Eccotemp ESH Mini Tank Water Heater is the first **SMARTHOME** water heater of its kind to work with a mobile app and voice control. Once you open your Google Home or Amazon Alexa App simply add your **SMARTHOME** Mini Tank by adding a new device. Once added to either app you will then be able to use voice commands.

**Note:** All commands begin with “Alexa,” or “Ok, Google,” before issuing a command to the respective device.

### Amazon Alexa

Purpose	Command
Switch On/ Off	Turn on <device name> Turn off <device name>
Set Temperature	Set <device name> to <X> degrees. Decrease <device name> Increase <device name>
Querying the Set Temperature	What’s my <device name> set to?

### Google Home

Purpose	Command
Switch On/Off	Turn on <device name> Turn off <device name>
Setting theTemperature	Set the <device name> to <X> Make <device name> warmer/cooler
Querying the Set Temperature	What’s the <device name> set to?

**Note:** This chart is for demonstration purposes only and available voice commands may vary based on model, updates and location availability.

# Maintenance

**⚠ NOTICE! When not being used for a lengthy period of time, you can conserve energy by reducing the temperature setting either manually or through the Ecotemp App.**

Protect against freeze damage if you plan on not using the water heater for an extended period of time. Unplug your water heater and drain.

## HOUSEKEEPING

When properly maintained, your water heater will provide years of dependable trouble-free service. It is recommended that a periodic inspection of the pipe connections be done every 6 months.

At least once a year, lift and release the lever handle on the pressure relief valve. It is located between the hot and cold water lines and make certain the valve operates freely. Allow several gallons to flush through the discharge line to an open drain.

Inspect the area around the water heater to ensure a safe operating environment. Keep the water heater area clear and free from any objects that could damage the water heater. If damage or denting is present, contact a service personnel to verify proper operation.

**DO NOT** operate the water heater if you feel something is wrong.

**DO NOT** allow children to operate or otherwise handle the water heater.

**⚠ NOTICE! If the pressure relief valve on the hot water heater discharges periodically, this may be due to a problem in the water system. Contact the water supplier or your plumbing contractor on how to correct this. DO NOT plug the relief valve outlet.**

## DRAINING AND STORAGE

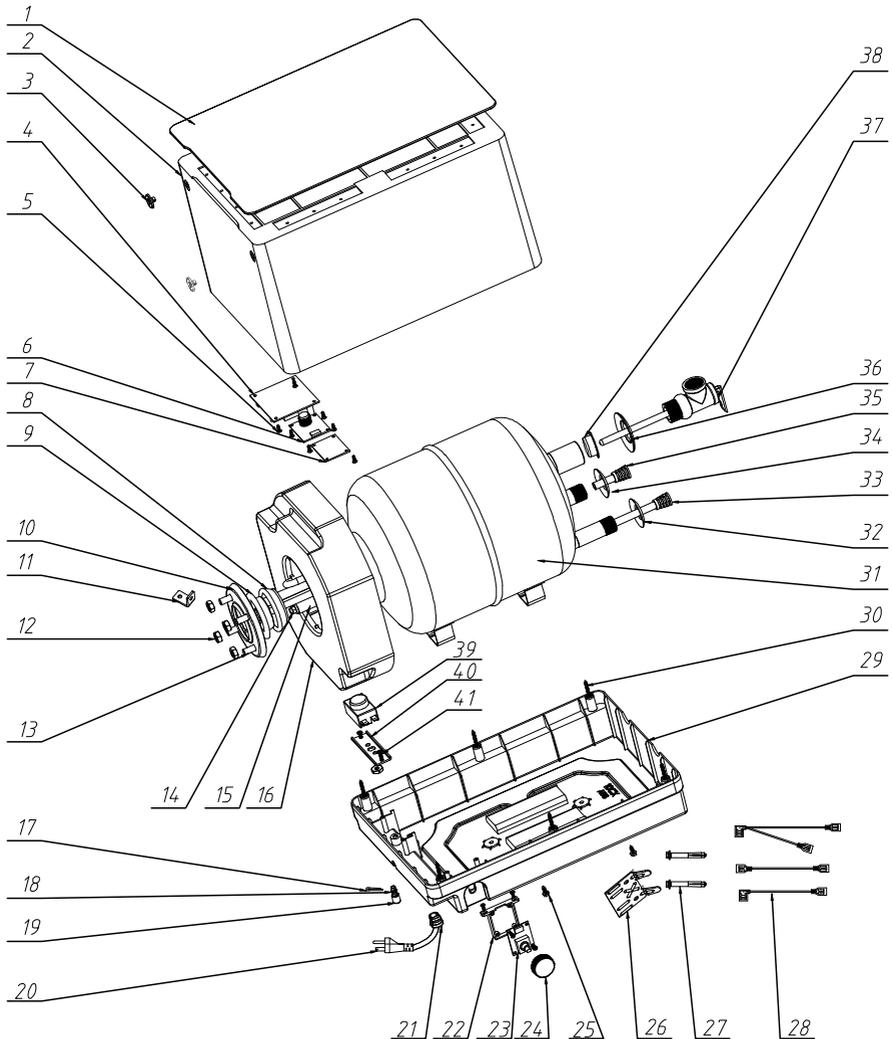
Draining your water heater:

1. Unplug the water heater.
2. Open a hot water faucet to let hot water run out. Allow water to flow until water is no longer hot.
3. Turn off the cold water supply to the water heater.
4. Close the hot water faucet.
5. Disconnect the water heater from both the hot and cold water connections.
6. If possible, siphon out any remaining water.
7. Carefully detach the water heater from the wall (if applicable).
8. Tilt the water heater to drain remaining water out of the heater.

# Maintenance

## BLOW OUT DIAGRAM

Numbers correspond with chart on page 22



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# Maintenance

No.	Part Name	QTY
1	Front Panel (Tempered Glass)	1
2	Front Cover	1
3	Foot Pads	2
4	Power Control PCB	1
5	Self-Tap Screws- C	11
6	Front Control PCB	1
7	Wifi PCB	1
8	Element Sealing Ring	1
9	Heating Element	1
10	Flange Cover	1
11	L Shape Bracket	2
12	Nut(M8)	4
13	Square Head Bolt (M8)	4
14	Magnesium Anode Nut (M6)	1
15	Magnesium Anode Nut	1
16	Plastic Base	1
17	Reset Button Pin	1
18	Spring	1
19	Exterior Reset Button	1
20	Power Cord	1
21	Power Cord Clamp	1
22	Plastic Base	1
23	Temperature Control PCB	1
24	Control Knob	1
25	External Heagon Bolt (Self-tap)	2
26	Mounting Bracket	1
27	Expansion Bolt(M6)	2
28	Internal Wires	1
29	Back Cover	1
30	Cover Installation Screws	6
31	Inner Tank	1
32	Rubber Bushing (Blue)	1
33	Inlet Pipe	1
34	Rubber Bushing (Red)	1
35	Outlet Pipe	1
36	Rubber Bushing (T&P tube)	1
37	T&P valve	1
38	Rubber Cover (T&P tube)	1
39	Temperature Limiter	1
40	Temperature Limiter Bracket	1
41	Self-tap Screws (3.5*16)	2

\*Chart corresponds with diagram on page 21

# Troubleshooting

## BEFORE YOU CALL FOR SERVICE

Save time and money! Review the troubleshooting tips below first and you may not need to call for service.

### 1. Water does not get hot:

- Make sure the power supply is on and working.
- If the light does not come on, check to see if the reset button has been toggled into the reset position. The reset button can be found on the back of your Mini Tank towards the bottom.
- If the power button is illuminated, but water temperature does not get hot at the sink, test for a plumbing crossover by shutting off the cold water supply to the water heater and opening the hot water tap (there should be no water flowing). Any continuous flow indicates a cross over which will effect the temperature and will need to be corrected.
- If you are unable to determine a plumbing crossover by this method, replacing the heating element may be needed.

### 2. Power Button not on:

- If the power indicator button light does not come on but the water gets hot, check for faulty power indicator button bulb.
- Check reset button.

### 3. Brown Water:

Brown or rusty water indicates a spent anode rod. Replace anode rod.

### 4. Odor in Water:

Smelly water could be due to an unusual reaction between local water and the heater's anode rod. Check anode rod.

### 5. Water is too hot:

Turn the temperature knob to a lower temperature setting, or use the app to set the temperature to a lower setting. If the water temperature does not lower within 60 minutes, then the thermostat may need to be replaced.

### 6. Water is not hot enough:

See "Adjusting your Thermostat:" on page 16.

### 7. Water is leaking:

- Unplug water heater from 110/120v outlet.
- Check and tighten any loose water fittings and/or T&P fitting on the top of the tank as needed.
- Remove cover and inspect heating element gasket to see if it is loose or for any visible damage.

# Troubleshooting

## Error Codes on the Front Panel and the App

Your Eccotemp **SMARTHOME** Mini Tank can report 2 different errors. If you are using the app, it will explain how you can interact with the water heater itself to diagnose and fix some of the problems. You can also look at the power button and it will blink in a sequence based on the error it is reporting.

### Error Code 1: Thermostat Malfunction

When the Mini reports an E1 Error, the power button will blink blue once (1 time) every three (3) seconds until the issue is fixed.

If you have an E1 Error, please contact customer service.

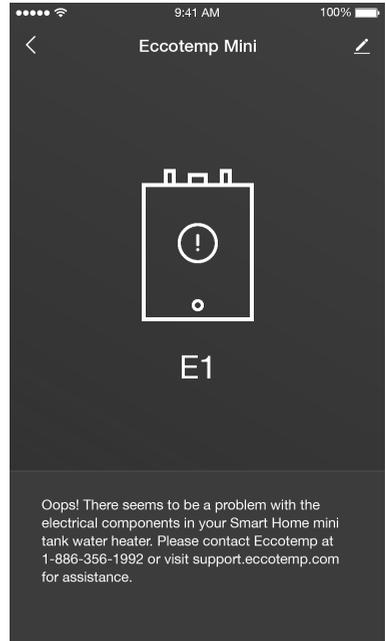
### Error Code 2: Rapid Temperature Increase

When the Mini reports an E2 Error, the power button will blink blue twice (2 times) and then pause for three (3) seconds before repeating until the issue is fixed.

A rapid temperature increase is typically caused by the Mini not being full with water. Disconnect the Mini from power, fill the Mini with water, and reconnect the Mini to power to resolve this issue. If the E2 error code does not resolve, please reach out to customer service for further assistance.

### No Power:

If the Mini does not seem to have power even though it is plugged in, check the reset button on the back of the Mini to make sure it is not toggled into the reset position. If the reset button is not toggled to the reset position, please contact customer service for further assistance.



### WIFI Connectivity:

When your Eccotemp **SMARTHOME** Mini Tank is connecting to WIFI, you will see the power button on the front of the Mini Tank blinking red for up to 60 seconds while it connects. If it is unable to connect during that time, it will try again periodically for up to 15 minutes.

In the event that your water heater does not connect to your WIFI, it will automatically set the temperature to the default temperature of 118° Fahrenheit. Your app will be able to tell you if your heater has connected successfully.

# ECCOTEMP SYSTEMS, LLC LIMITED WARRANTY INFORMATION

## MODEL(S): ESH-2.5, ESH-4.0

Eccotemp hereby warrants this product to be free of material defects in materials and workmanship when installed and operated according to Eccotemp's installation and operating instructions. This Limited Warranty extends to the original purchaser and subsequent owners, but only while the product remains as the site of the original installation. This Limited Warranty terminates if moved or reinstalled at a new location. There are no warranties, express or implied made or given other than contained in this Limited Warranty. No agent, employee or representative of Eccotemp has any authority to bind Eccotemp to any representation or warranty concerning the Product not contained in this Limited Warranty. Eccotemp reserves the right and authority to change, modify or alter this warranty at any given time.

Except as expressly set forth herein, THERE ARE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY GOODS SOLD HEREUNDER. BUYER'S EXCLUSIVE REMEDY IS LIMITED TO REPAIR OR REPLACEMENT OF THE GOODS SOLD, AT ECCOTEMP'S DISCRETION. ECCOTEMP SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

### Limited Warranty Period

This Warranty is extended by Eccotemp Systems to the Owner. This warranty takes effect on the date of installation of the Product or 30 days after the date of purchase, whichever occurs first, and is effective until the specified anniversary of such date as follows:

### Item Period of Coverage

5 Years limited on Leaks

2 Years Defects

Free Accessories (accessories, hardware pack, etc.) 30 days

Coverages are void if the unit is used in a hot water circulation loop, in series with a circulation system or where an on-demand recirculation system is not incorporated. The EM Mini Tank series is approved for commercial use.

Eccotemp will provide 1 round of parts per incident (deemed by Eccotemp Support Team) under the warranty prior to requesting the shipment of any item to our warehouse for repair/inspection.

### For Customers With a Home Warranty

Often your home warranty will assist in covering some of the fees related to your home appliances, such as your water heater. Be sure to check with your home warranty company for assistance prior to reaching out to Eccotemp.

### Shipping Related Costs:

#### US ORDERS

Within the first 45 days of purchase, Eccotemp will cover all ground shipping costs for warranty related issues, excluding AK, HI and any location outside of the continental US. After the first 45 days of purchase, the customer is responsible for all shipping to Eccotemp, regardless of reason or circumstance. Eccotemp will cover the warranty related shipping costs when returning a product to a customer after repair/inspection. The method for warranty related shipping will be Ground equivalent with the provider of Eccotemp's choosing.

#### CANADA ORDERS

Within the first 45 days of purchase, Eccotemp will cover all ground shipping costs for warranty related issues. After the first 45 days of purchase, the customer is responsible for all shipping to Eccotemp, regardless of reason or circumstance. Eccotemp will cover the warranty related shipping costs when returning a product to a customer. The method for warranty related shipping will be Ground equivalent with the provider of Eccotemp's choosing.

All shipments of any type of product coming to Eccotemp for any reason must have an RGA for any repairs to be made. Please contact Eccotemp to obtain an RGA number prior to shipping anything to Eccotemp. Failure to do so could result in loss of product. Eccotemp will not be responsible for replacement due to loss or damage if these steps are not properly followed.

#### US

Eccotemp Systems>Returns Department  
315-A Industrial Rd.  
Summerville, SC 29483

#### CANADA

Eccotemp Systems>Returns Department  
CO Eccotemp Canada  
Ottawa Logistics  
1270 Humber Place  
Ottawa Ontario K1B 3W3

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Support: [Support.Eccotemp.com](http://Support.Eccotemp.com)



Shop Online: [Eccotemp.com](http://Eccotemp.com)



Store Locator: [Eccotemp.com/locator](http://Eccotemp.com/locator)



# Exclusions

Please refer to the Installation Manual and Use & Care Manual supplied with your new Eccotemp Systems product. This Limited Warranty becomes null and void if any of the following are determined to be a contributing factor by Eccotemp to the failure of the product:

1. Abuse, misuse, alteration, neglect or misapplication.
2. Improper, dangerous, destructive maintenance procedures or inadequate maintenance.
3. Damages caused by services performed by servicers other than Eccotemp Systems.
4. Installation in a corrosive or otherwise destructive environment.
5. Damage as a result of freezing within the unit or surrounding piping.
6. Scale buildup.
7. Incorrect gas or water pressure.
8. Acts of force Majeure.
9. Damage as a result of use with non-potable, untreated or poorly treated well water, or water with high PH levels or hardness levels in excess of 12 grains per gallon (200mg/L).
10. Incorrect sizing for the application.
11. Products with original serial numbers that have been removed or altered and cannot be readily determined.
12. Acts of God including, but not limited to; fire, flood, or natural disaster.

This Product is not to be used as a pool or spa heater.

In the event of an Eccotemp Systems recognized defect, malfunction, or failure to conform to this Warranty and based upon Eccotemp approval of warranty claim, Eccotemp Systems, at its sole and absolute discretion, will settle the warrant claim of such defect, malfunction, or failure to conform to this Warranty. In order to make a claim under this Warranty, The Owner must notify Eccotemp of the failure of the Product to conform to this Warranty.

Under this Warranty, Eccotemp Systems will only provide replacement parts as described in the "Limited Warranty Period". The Owner will be responsible for any cost incurred including labor costs for servicing the unit, shipping, delivery, and handling of the replacement part, cost for permits or materials necessary for the repair, or incidental costs resulting from damage external to the unit resulting from the failure.

NOTWITHSTANDING ANYTHING IN THIS WARRANTY TO THE CONTRARY, EXCEPT FOR ECCOTEMP SYSTEMS' AFFIRMATIVE OBLIGATIONS EXPRESSLY SET FORTH IN THIS WARRANTY, ECCOTEMP SYSTEMS DISCLAIMS ANY AND ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING THE PRODUCT AND ITS FUNCTIONALITY, PERFORMANCE, MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR INTELLECTUAL PROPERTY RIGHTS. ECCOTEMP SYSTEMS DISCLAIMS ALL OTHER OBLIGATIONS OR LIABILITIES ON ITS PART AND NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR ECCOTEMP SYSTEMS ANY OTHER LIABILITIES IN CONNECTION WITH THE PERFORMANCE OF THE PRODUCT. THIS WARRANTY ONLY COVERS REPLACEMENT PARTS AND DOES NOT COVER COST OF LABOR OR SERVICES UNDER ANY CIRCUMSTANCES.

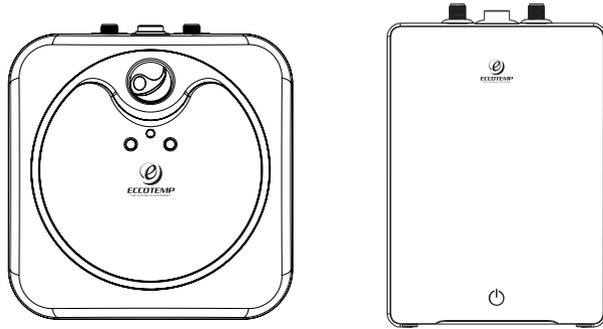
This warranty only applies to the 50 states of the U.S.A and Territories of Canada. Eccotemp Systems shall not be liable for any claim or demand against Eccotemp Systems by any other part for damages of any kind, including, but not limited to incidental and consequential damages, arising out of the subject matter of this Agreement. Some States do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights that vary from State to State.

**Please Note: This warranty and all Eccotemp content is subject to change. Please refer to [support.eccotemp.com](http://support.eccotemp.com) for the most updated version. For further questions, please email our support team at [support@eccotemp.com](mailto:support@eccotemp.com).**

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# Product Comparison

If you like the Eccotemp **SMARTHOME** Mini Tank, you'll also like our EM Series Mini Tanks! You can get more information about these miniature tanks and Eccotemp's Tankless Water Heaters at [www.Eccotemp.com](http://www.Eccotemp.com)



	EM Series Mini Tank	ESH Series Mini Tank
INSTALLATION	INDOOR ONLY	INDOOR ONLY
Tank Volume	2.5 Gallon, 4 Gallon, and 7 Gallon Models	2.5 Gallon and 4 Gallon Models
Voltage	110/120	110/120
AMPS	12	12
Phase	Single	Single
Temperatures	50-140 F	50-140 F
Heating Capacity	1400 Watts	1440 Watts
Max Operating Pressure	150 psi	150 psi
Fittings	1/2 NPT Connections	1/2 NPT Connections
Warranty	5 years Limited on Leaks 2 years Defects	5 years Limited on Leaks 2 years Defects
Outer Case	Plastic	Tempered Glass / Plastic
Manual Mode	✓	✓
SmartHome	✗	✓
Mobile App	✗	✓
Voice Commands	✗	✓
Smart ON/OFF	✗	✓
Advanced Error Detection	✗	✓
Suggested Uses	Boats, Campers, Tiny Homes, Food Carts, RV's Homes, Under the Sink, Offices, Cottages, Kitchens, Utility Rooms, Apartments, Food Trucks	Boats, Campers, Tiny Homes, Food Carts, RV's Homes, Under the Sink, Offices, Cottages, Kitchens, Utility Rooms, Apartments, Food Trucks

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