

1 Safety Information

1.1 Safety Definitions

This manual has safety information and instructions to help you eliminate or reduce the risk of accidents and injuries.



DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in property damage and minor or moderate injury.



NOTICE

This symbol indicates important information where there is no risk to people or property.

Additional symbols

Symbol	Explanation
■	Step in an action sequence
→	Cross-reference to another part of the document
•	List entry

1.2 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.

1. READ ALL INSTRUCTIONS BEFORE USING THIS WATER HEATER.
2. This water heater must be grounded. Connect only to properly grounded outlet. See "GROUNDING INSTRUCTIONS" found on (specific page or section to be included).

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 set with this water heater. If no receptacle is available adjacent to the water heater, contact a qualified electrician to have one 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. This water heater should be serviced only by qualified service personnel. Contact nearest authorized service facility for examination, repair, or adjustment.
9. Do not use multi-outlet adaptors (i.e. power strips) with this water heater.
10. Failure to inspect the anode rod at least once a year could cause the tank to fail and leak. This condition is not covered under the manufacturer's warranty.
11. Any water heater should be installed in such a manner that if it should leak, the resulting flow of water will not cause damage to the area in which it is installed. National Plumbing codes require a drain pan for any water heater installation. Failure to install one is the sole responsibility of owner and/or installer. Reference UPC 2006 (Uniform Plumbing Code) Section 508.1, or IPC 2006 (International Plumbing Code) Section 504.7.



CAUTION

The installer should review the contents of this manual with the owner upon completion of installation, and the manual should be left with the owner and placed in a location close to the installation.



CAUTION

The manufacturer cannot be responsible for the damages caused by improper installation or by failure to follow instructions in this manual. Comply with the installation instructions before completing electric connection.

**CAUTION**

The thermostat comes preset from the factory to be closed by default. (→ Fig. 1).

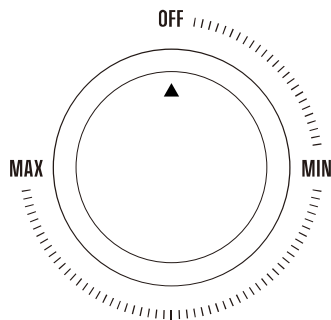


Fig. 1

**NOTICE**

Tank failure due to neglecting to maintain the anode rod is not covered under warranty (see Section 5 Maintenance).

**WARNING**

This product can expose you to lead, which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65warnings.ca.gov.

**DANGER**

Hydrogen gas is produced in a hot water system served by this heater that has not been used for a long period of time (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 kitchen sink before using any electrical appliance connected to the hot water system. When hydrogen is present, there will probably be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open.

**CAUTION**

Any water heater should be installed in such a manner that if it should leak, the resulting flow of water will not cause damage to the area in which it is installed. National Plumbing codes require a drain pan for any water heater installation. Failure to install one is the sole responsibility of owner and/or installer. Reference UPC 2006 (Uniform Plumbing Code) Section 508.1, or IPC 2006 (International Plumbing Code) Section 504.7.

**CAUTION**

Prior to connecting the power supply, ensure tank is full of water and system is purged of air.

2 Information about the product

2.1 Models overview

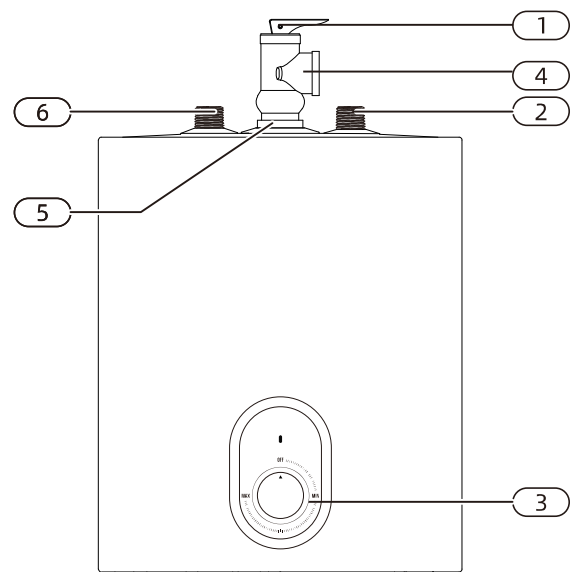
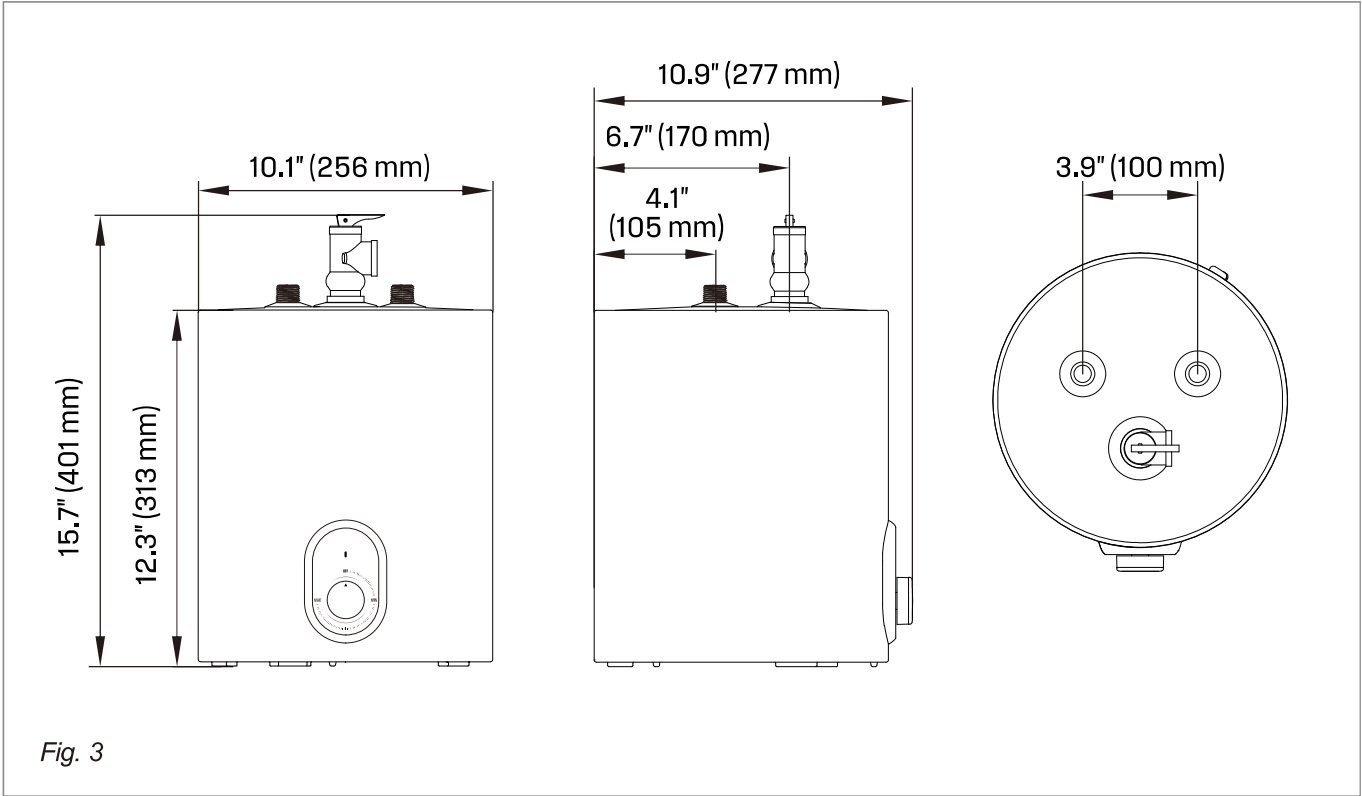


Fig. 2

1. Temperature & pressure relief valve, $\frac{3}{4}$ NPT male.
2. Cold water inlet (BLUE) $\frac{1}{2}$ NPT male.
3. Temperature Adjustment Knob.
4. Temperature & pressure relief valve discharge line to drain.
5. $\frac{3}{4}$ NPT female tapping for relief valve.
6. Hot water outlet (RED) $\frac{1}{2}$ NPT male.

2.2 Dimensions



2.3 Technical data

Technical data	
Model (Units)	ES015
Capacity (Gallons)	1.5
Voltage (VAC)	120 for each model
Power at 120 VAC (Watts)	1440
Maximum water pressure (Psi)	150
Weight Unpacked (lbs)	17
Amperage (Amps)	12.0 for each model

3 Installation instructions

3.1 Mounting the heater

Floor mounting

- Heater can sit on floor.

3.2 Pipe connections

- Connect the cold water inlet pipe to the inlet tapping (marked with a blue ring).
- Ensure a isolation valve is installed on the cold water supply to the water heater.
- Connect the hot water outlet pipe to the outlet tapping (marked with a red ring).



CAUTION

To reduce the risk of excessive pressures and temperatures in this water heater:

- Install the supplied temperature and pressure protective equipment required by local codes but not 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 Shut-off Devices for Hot Water Supply Systems, ANSI Z21.22.

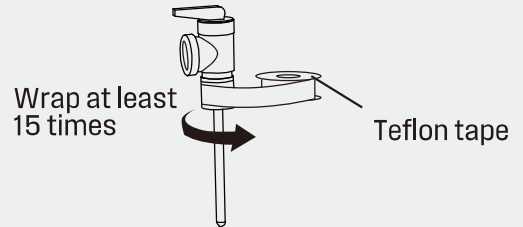
The supplied temperature and pressure relief valve is marked with a maximum set pressure (150 psi) that does not exceed the marked maximum working pressure of the water heater.

- Install the Temperature and pressure relief valve in the opening provided and marked for this purpose in the water heater.
- Orient it or provide tubing so that any discharge from the valve will exit within 6 inches above, or at any distance below, the structural floor, and cannot contact any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances.



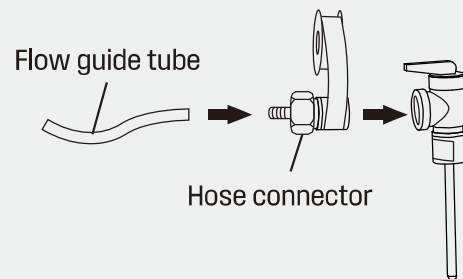
NOTICE

Wrap the Teflon tape around the threaded opening of the pressure relief valve at least 15 times (approximately 47.2" (120 cm) in length) in order to prevent water leakage.



NOTICE

Wrap at least 8 turns (approximately 25.2 inches (65 cm)) of Teflon tape around the threaded opening of the hose connector.



National Plumbing codes may require a drain pan for the water heater installation. Failure to install one is the sole responsibility of owner and/or installer. Reference UPC (Uniform Plumbing Code), or IPC (International Plumbing Code).