

3 Installation

3.1 Installation Instructions



WARNING

- High voltage electrical installations should be prioritized by professional electricians.
- Installation must comply with the National Electrical Code, local electrical and plumbing codes.



NOTICE

Unit must be installed in a vertical position with the water fittings pointing downward.



WARNING

Do not install unit where it would routinely be splashed with water. Electric shock may result.



CAUTION

Hot water outlet pipes leaving unit can be hot to the touch. Insulation must be used for hot water pipes below 36" (0.9 m) due to burn risk to children.



NOTICE

This unit should not be installed in a location where it may be exposed to temperatures less than 36 °F (2 °C). If the unit may be subject to freezing temperatures all water must be drained from the unit. Failure to comply with this instruction voids all warranties.

The unit should be located in an area where water leakage from the unit or connections will not result in damage to the area adjacent to the unit. If such a location cannot be avoided it is recommended that a drain pan be installed under the unit.

- Make sure the product is intact and complete with accessories.
- Please ensure that the main power supply, water pressure, grounding conditions, ammeter and wires meet the installation requirements.

- The unit must be installed in a circuit suitable for overcurrent. Must be grounded at the breaker panel.
- This unit must be permanently connected to a fixed circuit breaker. If you are not using the unit, turn off the circuit breaker.
- Do not install the unit in the place of fire or strong magnetic field. This unit needs to be installed vertically. This unit should be connected to water first and then to electricity.

Guidelines You Need to Be Aware of

- This unit is designed for indoor installation only. However, it may be installed in an outdoor location as long as it is mounted in a suitable enclosure that provides protection from rain, splashed water, freezing temperatures, direct sunlight, debris, and insects.
- Install unit as close as possible to the main hot water draw off points.
- Install unit in a frost free area. If frost might occur, remove unit before freezing temperatures set in.
- Leave a minimum of 5" (120 mm) of clearance on all sides for servicing.
- DO NOT install under water pipes or air conditioning lines that might leak or condense moisture that could then drip onto the unit.
- DO NOT install above electrical boxes or junctions.

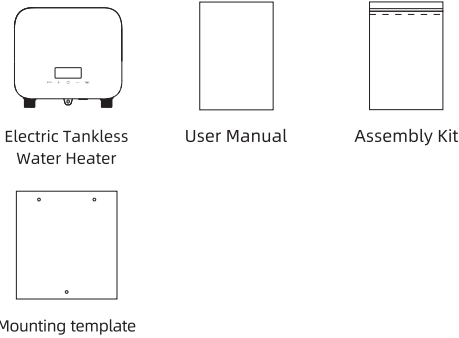


CAUTION

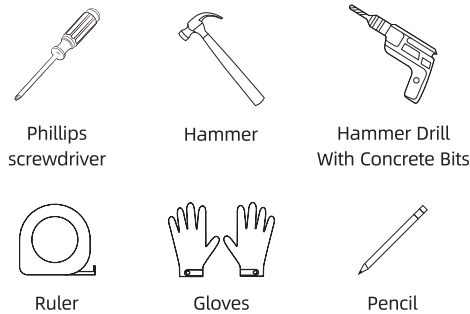
The water heater should not be located in an area where leakage will result in damage to the area adjacent to it or to lower floors of the structure. Where such areas cannot be avoided, it is recommended that a suitable catch pan, adequately drained, be installed under the water heater.

3.2 Prepare for Installation

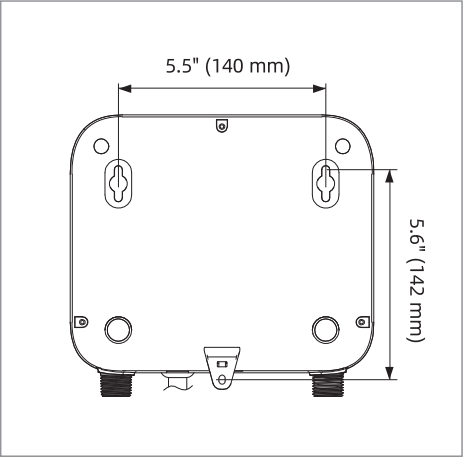
■ **Parts included**



■ **Tools needed (Not included)**

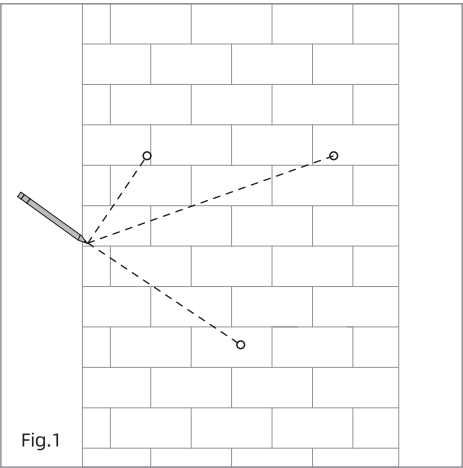


3.3 Installation Dimensions

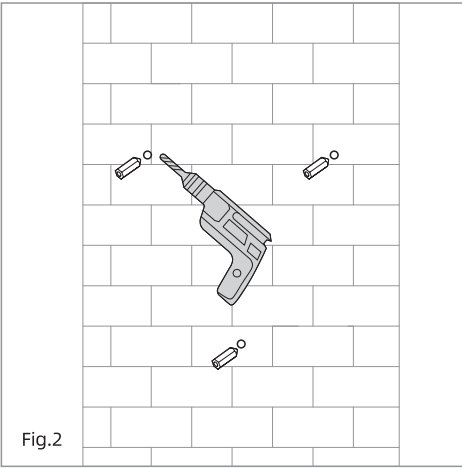


3.4 Installation Method

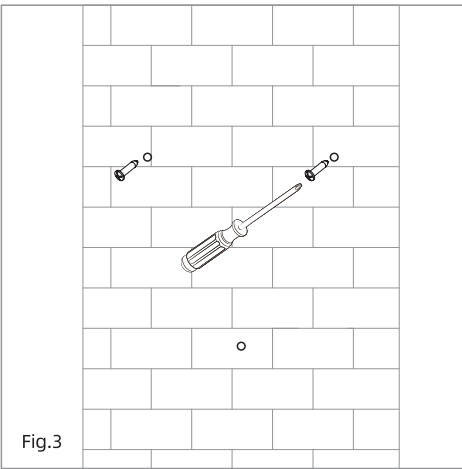
1. Figure out where to mount the water heater unit, mark 3 mounting holes on the wall according to the water heater or installation guide. (Fig.1).



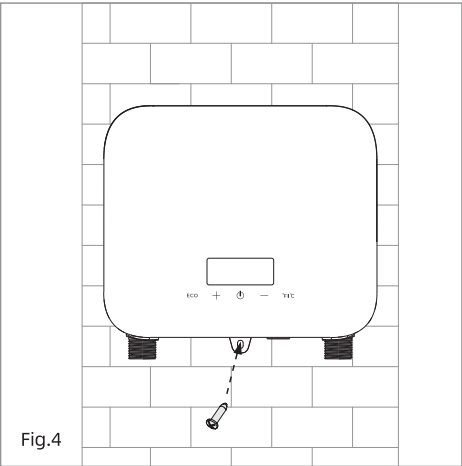
2. Use a hammer drill with concrete bits to create a hole in the wall according to the punching mark, ensuring it is 0.24" (6mm) in diameter and 1.02-1.1" (26-28mm) in depth. Then, insert the matching 3-M4 plastic wall anchors into the hole (Fig.2).



3. Insert M4 screws into the two upper holes, leaving about 0.12 inches to 0.2 inches (3-5mm) not tightly fastened (Fig.3).



4. Hang the machine on the two previously installed screws, that secure the lower a screw (Fig.4).



3.5 Water Connections



NOTICE

Excessive heat from soldering on copper pipes near the Unit may cause damage.

The cold water connection to the unit must be disconnected periodically in order to clean the filter screen. It is required to use water connections that are easily detachable such as braided steel flex connectors.

- All plumbing work must comply with national and applicable state and local plumbing codes.
- A pressure reducing valve must be installed if the cold water supply pressure exceeds 150 PSI (10 bar).
- Make certain that the cold water supply line has been flushed to remove any scale and dirt.
- The unit has a built in filter screen that should be cleaned from time to time. Clean screen and put the screen and the washer back into their original position.

- Flexible water hose are recommended to use with your hot water heater as part of installation, it makes future maintenance more convenient. Please remember to install rubber seal rings at the connections. When all water connections are completed, check for leaks and take the necessary actions before proceeding.
- A set of service valves should be applied to the inlet and outlet fittings of the water heater if you live in hard water area, so you could get easy access of annual maintenance.

**CAUTION**

Hard water or water with a high mineral count may damage the unit. Damage to the unit caused by scale or a high mineral count is not covered under the warranty.

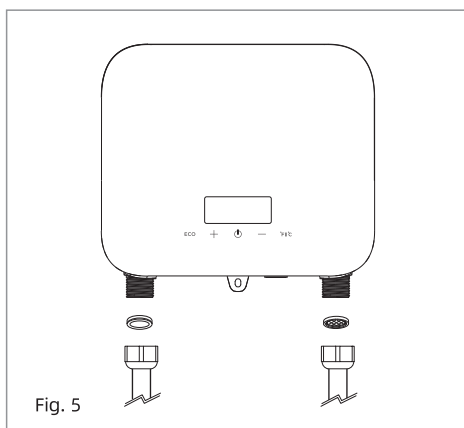


Fig. 5

**NOTICE**

Recommended installation with filter screen.

3.6 Electrical Connection

**WARNING: Electrocution**

Before beginning any work on the electric installation, be sure that main breaker panel switches are "Off" to avoid any danger of electric shock. All mounting and plumbing must be completed before proceeding with electrical hook-up. Where required by local, state or national electrical codes the circuits should be equipped with a "ground fault interrupter".

The unit must be properly grounded in accordance with state and local codes, or in absence of such codes, in accordance with national electric code or the Canadian electric code. Failure to electrically ground the product could result in serious personal injury or death.

- The unit should be connected to properly grounded dedicated branch circuits of proper voltage rating. Ground must be brought to the "Ground" at the circuit breaker panel.

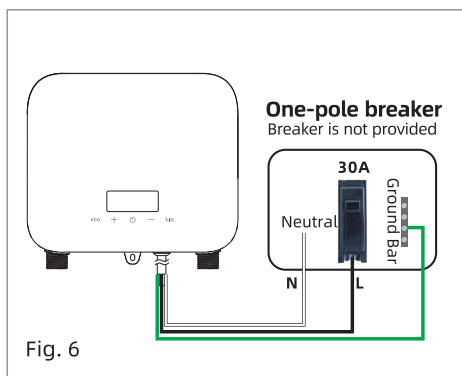


Fig. 6

**WARNING**

When connecting the power cord, the power must be turned off.