

ECO180

ELECTRIC TANKLESS WATER HEATER

INSTALLATION REQUIREMENTS





INSTALLATION REQUIREMENTS



WARNING

- We recommend installation, repair and maintenance be performed by a professional for safety and compliance.
- If you are not familiar with basic plumbing and electricity, we strongly recommend that the water heater is installed, repaired and maintained by a licensed plumber and/or electrician.
- Under no circumstances should you attempt to install, repair, or disassemble the Marey tankless electric heater without first shutting off all power to the unit directly at the circuit breaker panel.

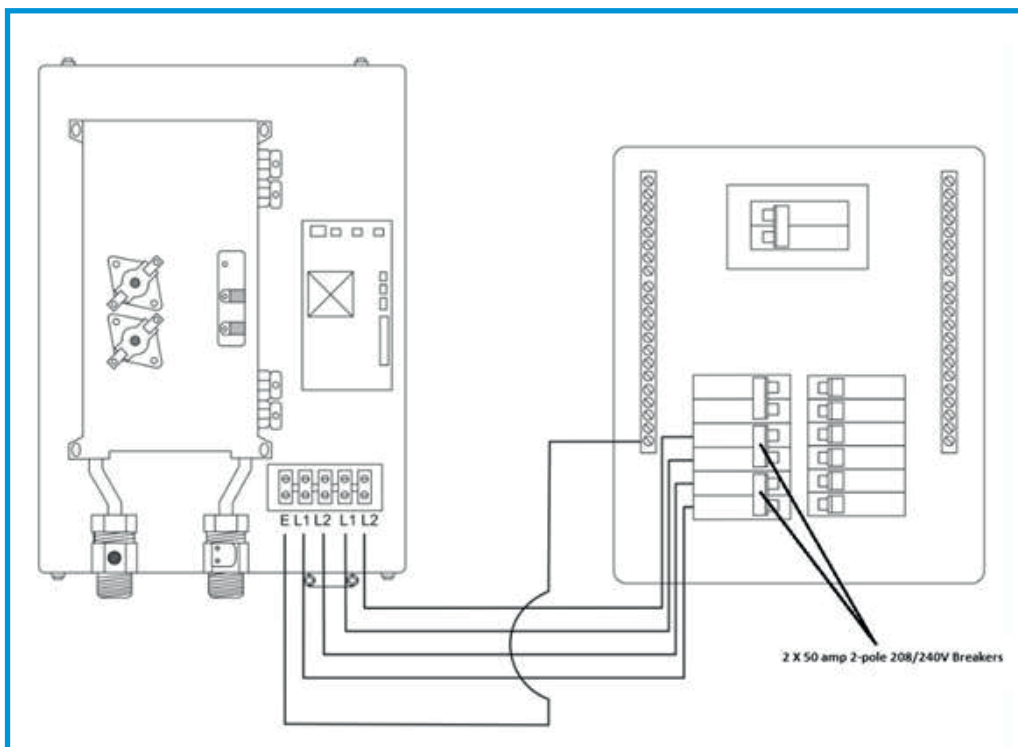
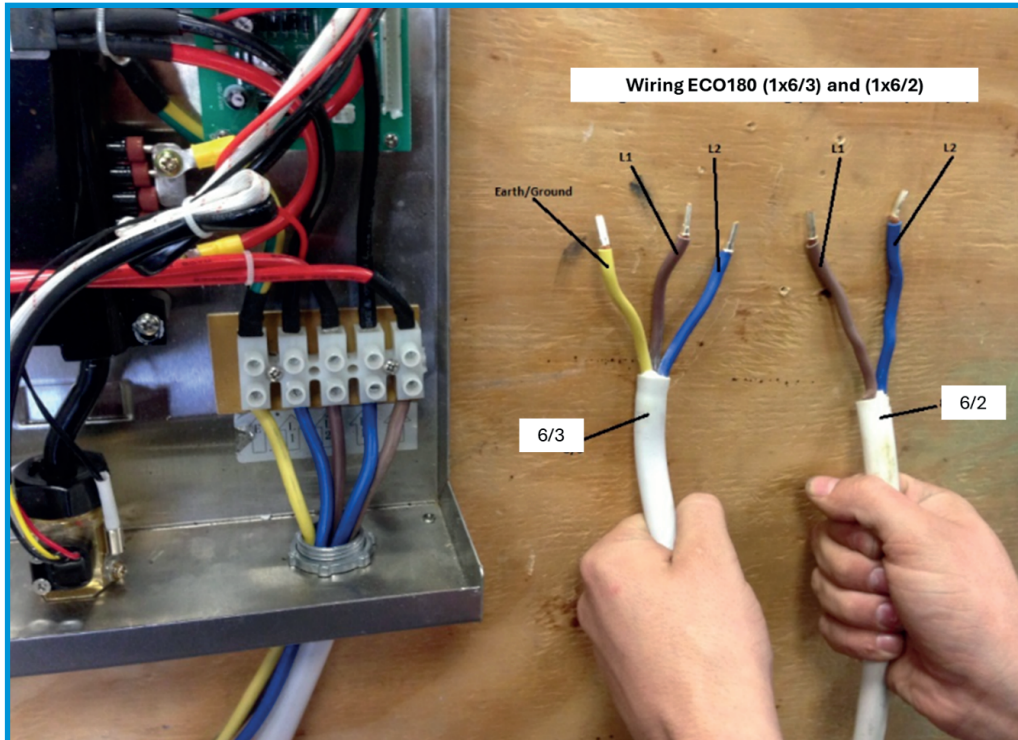
- Installation video:
- <https://www.youtube.com/watch?v=zKzQKymAirc>
- 220 – 240 Volts
- 2 (two) double pole 50 Amp breakers
- Check if service panel can handle the load
- Dedicated installation with 6 gauge wires
- Wire size charts:
<https://www.electronicshub.org/wire-gauge-chart/>



3/0 Gauge		200 Amps Service Entrance
1/0 Gauge		150 Amps Service Entrance and Feeder Wire
3 Gauge		100 Amps Service Entrance and Feeder Wire
6 Gauge		55 Amps Feeder and Large Appliance Wire
8 Gauge		40 Amps Feeder and Large Appliance Wire
10 Gauge		30 Amps Dryers, Appliances, and Air Conditioning
12 Gauge		20 Amps Appliance, Laundry and Bathroom Circuits
14 Gauge		15 Amps General Lighting and Receptacle Circuits

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WIRING



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WATER CONNECTIONS



- Maximum distance to point of use: 50ft. This may vary according to region.

SPECIFICATIONS

MODEL	ECO180
Voltage	240 V
Power	18 Kw
Minimum circuit breaker size	2X50 Amps double pole
Maximum amperage	75 Amps
Wire size	6 gauge
Operating pressure	2.9~87 psi
Water connections	¾" NPT
Mount	Vertically
Dimensions	16.5"x10.9"x3.5"
Weight	17.6 lbs

- Unit must be mounted vertically

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WATER FLOW AND PRESSURE

- Assure proper water flow and pressure to start unit.
 - If unit shows E1, or OVERHEAT or water is above set temperature, please increase water flow (volume) to water heater.
 - Sometimes the fixtures aerators and shower heads need cleaning

WATER QUALITY

- Sediment and Debris:
 - This model unit is flow activated. It works with an impeller inside the inlet fitting that spins with water flow. The spinning is what signals the unit to start. It is very common to get build up and clogs in first installations from debris in the water line.
 - Purge well the water line before connecting to inlet fitting.
 - If water from well or other source, sediment filter is recommended.
 - If unit does not start, check if inlet fitting screen is clogged with sediment or sealant and/or if impeller is stuck.
 - Instructions to clean impeller: <https://www.youtube.com/watch?v=QXuUNCtSu20>
 - See Troubleshooting Guide for instructions.
- Scale: hard water may corrode and damage heat exchangers, fittings and specially sensors in the tankless water heater. If your water is very hard you may want to consider a water softener to protect your appliances.

FREEZING WEATHER

- Do not expose to freezing conditions
- If needed, unit may be drained to prevent freezing
- Freeze damage is not covered by warranty