



START-UP OF ELECTRIC WATER HEATERS

****FOR DETAILED INFORMATION SEE INSTALLATION & MAINTENANCE MANUAL ****

WARNING: These startup instructions are prepared for a qualified service installer, service agency or utility company and require and rely on the experience and training of these qualified gas appliance technicians to be safely completed. Attempting to follow these instructions without such training and experience can result in property damage, exposure to hazardous materials, personal injury or death.

1. Visually inspect unit and components for damage and proper installation.
2. Check all electrical connections for tightness and proper voltage.
3. Check heater to make sure it is full of water. (Remove air through T&P valve).
4. Check the resistance to ground between all element terminals and the element mounting flange (should read infinity).
5. Check for leaks at elements and all tank penetrations (i.e. thermostat low water cut-off).
6. Energize manual disconnect switch. Check for proper voltage on power circuit. (Should not vary more than 5% from voltage on data plate.)
7. Energize control circuit switch. Check for proper voltage and amperage under full load (should not vary over 5% from voltage on data plate).
8. Check all components for proper operations (i.e. contactor sequencers).
9. Thermostat high limit opens at 200°F. Set lower operator to desired outlet temperature and upper operator 15°F higher.
10. After unit shuts down, turn water on and let unit cycle on (to check proper thermostat operation).
11. After at least 30 minutes of operation, turn off power and retighten all electrical connections.
12. Complete attached startup report.

Important – Contact PVI Customer Service, 800-433-5654, if any recommended setpoint or analysis reading falls outside of the recommended ranges before completing startup.



START-UP REPORT ELECTRIC WATER HEATERS

Warning: Startup must be performed by a qualified service installer, service agency or utility company.

Model Number: _____ Serial Number: _____

Job Name: _____

Address: _____

GENERAL INFORMATION

Restart? Yes No Installation is: New Replacement/Renovation Indoor Outdoor

Primary operating voltage: _____ VAC Voltage from neutral to earth ground: _____ (should be zero)

Thermostat Set Points: Hi-Limit _____ °F Upper Operating: _____ °F Operating _____ °F

Operating (optional): _____ °F Operating (optional): _____ °F

Cold Water Inlet Temperature: _____ °F Hot Water Outlet Temperature: _____ °F

T & P Relief Valve(s) plumbed to a suitable drain? Yes No

WATER HEATER INSTALLATION

Type of piping connected to heater: Copper Brass Galvanized

Check valve in the supply water piping? Yes No; Water Softener? Yes No; Operational? Yes No

Is there a mixing valve on the hot water supply? If yes; temperature setting: _____ °F No

Is there expansion relief in the cold water supply? If yes, what type: tank valve No

Is there a recirculation loop? Yes Circulating pump horsepower: _____ No

Is there a floor drain in the room? Yes No

ELECTRICAL SYSTEM

(Tighten all electrical connections prior to energizing and again after 30 minutes of operation)

Number and size of incoming power cables: _____ Power cables are: Copper Aluminum

Control Circuit Transformer: _____ / _____ Volts _____ kva Primary Transformer Fuse Size: _____ V _____ A

Primary Voltage: _____ Volts _____ PH Total Amps: _____ Amps per Leg: _____

Total Number of Contactors: _____ Contactor Fuse Size: _____ Amps

Total Number of Electric Elements: _____ each _____ KW, _____ each _____ KW

Measured resistance of all elements to ground? Yes No Is Unit connected to BMS? Yes No

Comments: _____

Service Company Name: _____ Phone: _____

Service Company Address: _____

Start-up Performed By: _____ Date: _____

Customer Representative: _____ Date: _____

Important: You must submit the original copy of the completed form to your PVI representative before the warranty will become effective on this product. Contact Customer Service for assistance at 1-800-433-5654.