

EN6-50-DOLBS

Generic State Proline Series 48 Gallon Electric Water Heater Instruction Manual

Model: EN6-50-DOLBS

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Generic State Proline Series 48 Gallon Electric Water Heater, Model EN6-50-DOLBS. This unit is designed to provide a reliable supply of hot water for residential use. It features dual 4.5 kW heating elements for efficient recovery and environmentally-friendly insulation to minimize heat loss. Key features include enhanced heating elements, a self-cleaning dip tube, a Coregard anode rod for tank protection, Blue Diamond glass coating for durability, and an enhanced-flow brass drain valve.



Figure 1: Generic State Proline Series 48 Gallon Electric Water Heater (Model EN6-50-DOLBS). This image shows the exterior of the water heater unit, typically cylindrical in shape, with connections for water inlet/outlet and electrical supply visible at the top.

2. SAFETY INFORMATION

Read and understand all safety instructions before installing, operating, or performing maintenance on this water heater. Failure to

follow these instructions could result in property damage, personal injury, or death.

- **DANGER:** Water heaters can produce hot water at temperatures sufficient to cause scalding. Exercise extreme caution when using hot water.
- **WARNING:** Installation and service must be performed by a qualified professional. Improper installation can lead to electric shock, fire, or explosion.
- **WARNING:** Ensure the water heater is properly grounded to prevent electric shock.
- **CAUTION:** Do not operate the water heater if the tank is not completely filled with water. Operating an empty tank will damage the heating elements.
- **CAUTION:** This appliance is heavy. Use proper lifting techniques and assistance during installation to prevent injury.
- Keep flammable materials away from the water heater.
- Do not tamper with the temperature and pressure relief (T&P) valve. This is a safety device.

3. PACKAGE CONTENTS

Carefully unpack the water heater and inspect for any shipping damage. Retain all packaging materials until you are satisfied with the product's condition.

- Generic State Proline Series 48 Gallon Electric Water Heater Unit (Model EN6-50-DOLBS)
- Instruction Manual (this document)
- *Note: Additional plumbing and electrical components required for installation are sold separately.*

4. SETUP & INSTALLATION

Installation of this electric water heater requires knowledge of plumbing and electrical systems. It is strongly recommended that installation be performed by a qualified plumber and electrician in accordance with all local codes and regulations.

4.1 Location Requirements

- Install indoors on a level, solid surface capable of supporting the water heater's weight when full (approximately 172 lbs dry + 48 gallons * 8.34 lbs/gallon = ~572 lbs).
- Ensure adequate clearance for maintenance and service.
- Protect from freezing temperatures.

4.2 Plumbing Connections

- Connect cold water inlet and hot water outlet to the top connections of the water heater.
- Install a temperature and pressure relief (T&P) valve in the designated opening. Route the discharge pipe from the T&P valve to an open drain, ensuring it is not obstructed.
- Ensure all plumbing connections are watertight.

4.3 Electrical Connections

- This unit requires a dedicated electrical circuit. Refer to local electrical codes for wire gauge and breaker size.
- The water heater operates with dual 4.5 kW (4500 watts) heating elements.
- Ensure the power supply is disconnected at the circuit breaker before making any electrical connections.
- Connect the electrical wiring to the water heater's terminal block as per the wiring diagram located on the unit's access panel.
- Proper grounding is essential for safety.

4.4 Filling the Tank

- Before restoring electrical power, open a hot water faucet in your home to allow air to escape from the tank.
- Open the cold water supply valve to the water heater.
- Allow the tank to fill completely until water flows steadily from the open hot water faucet. Close the faucet.
- Inspect all connections for leaks.

5. OPERATION

Once the water heater is properly installed and filled with water, you can begin operation.

5.1 Initial Startup

- Ensure the tank is completely filled with water (refer to Section 4.4).
- Restore electrical power to the water heater at the circuit breaker.
- The water heater will begin heating the water to the factory preset temperature.

5.2 Temperature Adjustment

The water heater is equipped with an adjustable thermostat. To adjust the water temperature:

1. Disconnect power to the water heater at the circuit breaker.
2. Remove the access panel(s) covering the thermostats.
3. Adjust the thermostat dial to the desired temperature setting. A setting of 120°F (49°C) is generally recommended for safety and energy efficiency. Higher temperatures increase the risk of scalding.
4. Replace the access panel(s) and restore power.

The water heater has a First Hour Rating of 60 Gallons per Hour and a recovery rate of 21 Gallons per Hour at a 90°F rise, indicating its capacity to deliver hot water.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your water heater. It is recommended that a qualified service technician perform annual inspections.

6.1 Draining the Tank

Periodically draining the tank helps remove sediment buildup, which can affect efficiency and tank life. Use the enhanced-flow brass drain valve for this procedure.

1. Turn off power to the water heater at the circuit breaker.
2. Turn off the cold water supply valve to the water heater.
3. Connect a garden hose to the drain valve at the bottom of the tank and route it to a suitable drain.
4. Open the drain valve and open a hot water faucet in your home to allow air into the tank, facilitating drainage.
5. Allow the tank to drain completely.
6. Close the drain valve and the hot water faucet. Refill the tank as described in Section 4.4 before restoring power.

6.2 Anode Rod Inspection/Replacement

The Coregard anode rod protects the tank from corrosion. It should be inspected annually and replaced when significantly depleted. This procedure typically requires a qualified technician.

6.3 T&P Valve Test

Test the temperature and pressure relief (T&P) valve at least once a year to ensure it is operating correctly. Follow the manufacturer's instructions provided with the valve. **CAUTION:** Hot water will be discharged during this test. Ensure the discharge pipe is safely routed.

7. TROUBLESHOOTING

Before contacting a service technician, review the following common issues and solutions.

Problem	Possible Cause	Solution
No hot water	No power to unit; tripped circuit breaker; faulty heating element; thermostat set too low.	Check circuit breaker; ensure power is on. Verify thermostat setting. If elements are suspected, contact a qualified technician.
Insufficient hot water	Thermostat set too low; excessive hot water usage; faulty heating element; sediment buildup.	Increase thermostat setting (see Section 5.2). Reduce hot water demand. Consider draining the tank (see Section 6.1). Contact a technician if issues persist.
Water leaking from unit	Loose plumbing connections; faulty T&P valve; tank leak.	Tighten connections. If leak is from T&P valve, test it (see Section 6.3). If tank leak is suspected, turn off water and power immediately and contact a qualified technician.
Noisy operation	Sediment buildup in tank.	Drain and flush the tank (see Section 6.1).

For issues not listed or if solutions do not resolve the problem, contact a qualified service professional.

8. SPECIFICATIONS

Feature	Detail
Model Number	EN6-50-DOLBS
Capacity	48 Gallons
Heating Input	4.5 kW (4500 watts)
Power Source	Corded Electric
Uniform Energy Factor (UEF)	0.93
First Hour Rating	60 Gallons per Hour
Recovery Rate (90°F Rise)	21 Gallons per Hour
Dimensions (H x D)	34 inches x 26.5 inches
Item Weight (Empty)	172 pounds
Maximum Operating Pressure	150 PSI
Test Pressure	300 PSI
Installation Method	Floor-Mounted, Indoor

Feature	Detail
Color	Silver

9. WARRANTY & SUPPORT

9.1 Warranty Information

This Generic State Proline Series Electric Water Heater carries a **6-year limited tank and parts warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full terms and conditions, please refer to the warranty documentation included with your purchase or contact the manufacturer.

Note: Improper installation, lack of maintenance, or unauthorized modifications may void the warranty.

9.2 Customer Support

If you have questions about your water heater, require technical assistance, or need to file a warranty claim, please contact the retailer or the manufacturer's customer support. Ensure you have your model number (EN6-50-DOLBS) and proof of purchase available when contacting support.



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