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› Thermor /

› THERMOR DURALIS 150L ACI Hybrid Compact Vertical Electric Water Heater User Manual

## Thermor 861412

# THERMOR DURALIS 150L ACI Hybrid Compact Vertical Electric Water Heater User Manual

Model: 861412

[Introduction](#)   [Safety Instructions](#)   [Product Overview](#)   [Setup & Installation](#)   [Operation](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your THERMOR DURALIS 150L ACI Hybrid Compact Vertical Electric Water Heater, model 861412. Please read these instructions carefully before using the appliance and keep them for future reference.

The DURALIS water heater features an ACI Hybrid anti-corrosion protection system, utilizing a titanium anode coated with magnesium for enhanced durability and maintenance-free operation. Its enameled interior and heating element ensure optimal hygiene, meeting sanitary requirements. The steatite heating element is designed without direct contact with water, protecting it from limescale buildup.

## 2. SAFETY INSTRUCTIONS

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**WARNING:** Failure to follow these safety instructions could result in electric shock, fire, property damage, or personal injury.

- Ensure the water heater is installed by a qualified professional in accordance with local regulations and codes.
- Always disconnect power to the unit before performing any maintenance or service.
- Do not operate the water heater if it is damaged or malfunctioning.
- Keep flammable materials away from the water heater.
- The water heater must be properly grounded.
- Do not block or tamper with the pressure relief valve.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

### 3. PRODUCT OVERVIEW

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The THERMOR DURALIS 150L water heater is a compact, vertical, wall-mounted unit designed for efficient hot water production. Key components include:

- **ACI Hybrid Protection System:** Advanced anti-corrosion system for extended lifespan.
- **Steatite Heating Element:** Protected from direct water contact and limescale.
- **Enameled Tank:** Ensures optimal water hygiene.
- **Dry-Heat Protection:** Prevents damage if the tank is empty.
- **Overheat Protection:** Safety feature to prevent excessive water temperatures.
- **Low Water Flow Protection:** Ensures safe operation under varying water pressure.



Figure 1: Bottom view of the water heater, illustrating the cold water inlet (blue) and hot water outlet (red) connections. An orange droplet symbol indicates the drain point.



Figure 2: The Thermor DURALIS water heater installed vertically within a white bathroom cabinet, demonstrating its compact, wall-mounted design.

## 4. SETUP & INSTALLATION

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Installation of the THERMOR DURALIS water heater should only be performed by a qualified technician. Refer to the detailed installation guide provided with the product for specific instructions and diagrams.

### 4.1. Mounting

- The unit is designed for vertical wall-mounting.
- Utilize the double mounting centers for secure attachment to a load-bearing wall.
- Ensure adequate clearance around the unit for maintenance and ventilation.

### 4.2. Plumbing Connections

- Connect the cold water supply to the blue-marked inlet.
- Connect the hot water outlet to the red-marked outlet.
- Install a pressure relief valve as required by local codes.
- Ensure all connections are watertight before powering on the unit.

### 4.3. Electrical Connection

- The water heater requires a dedicated electrical circuit.

- Connect the unit to a wall-mounted electrical outlet or directly wire it according to electrical codes.
- Verify proper grounding to prevent electrical hazards.

## 5. OPERATION

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Once installed and filled with water, the THERMOR DURALIS water heater is designed for automatic operation.

### 5.1. Initial Startup

1. Ensure the water heater tank is completely filled with water before applying power. Open a hot water faucet to allow air to escape until water flows steadily.
2. Restore electrical power to the unit.
3. The water heater will begin heating the water to the factory-set temperature or your adjusted setting.

### 5.2. Temperature Adjustment

Refer to the control panel or thermostat instructions for adjusting the water temperature. The unit features an electronic board with a 6V accumulator for precise control.

### 5.3. Safety Features in Operation

- **Dry-Heat Protection:** Automatically shuts off the heating element if the tank is empty, preventing damage.
- **Overheat Protection:** Activates to prevent water from reaching dangerously high temperatures.
- **Low Water Flow Protection:** Ensures the heating element operates safely even with reduced water pressure.
- **ACI Hybrid Protection:** Provides continuous anti-corrosion protection during operation.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficiency of your water heater. Always disconnect power before performing any maintenance.

### 6.1. ACI Hybrid Protection

The ACI Hybrid anti-corrosion system, featuring a titanium anode coated with magnesium, is designed for **maintenance-free operation**. Regular inspection of the anode is generally not required.

### 6.2. General Cleaning

- Periodically wipe the exterior of the water heater with a damp cloth. Do not use abrasive cleaners.
- Ensure the area around the water heater is kept clean and free of obstructions.

### 6.3. Pressure Relief Valve

Test the pressure relief valve annually by lifting the lever. Follow manufacturer's instructions for testing. If water does not flow freely, replace the valve.

### 6.4. Draining the Tank (if necessary)

If the unit needs to be drained for service or prolonged shutdown, disconnect power, close the cold water supply valve, and open a hot water faucet. Connect a hose to the drain valve at the bottom of the tank and open the valve to drain the water.

## 7. TROUBLESHOOTING

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Before contacting customer support, review the following common issues and solutions.

Problem	Possible Cause	Solution
No hot water	No power; thermostat tripped; heating element failure.	Check circuit breaker/fuse. Reset thermostat. Contact service if element failed.
Insufficient hot water	Thermostat set too low; excessive hot water usage; sediment buildup.	Increase thermostat setting. Reduce hot water demand. Contact service for sediment removal.
Water too hot	Thermostat set too high.	Lower thermostat setting.
Leaking from unit	Loose connections; faulty pressure relief valve; tank leak.	Tighten connections. Replace pressure relief valve. A tank leak requires professional service.
Unusual noises	Sediment buildup in tank.	Contact service for tank flushing.

## 8. SPECIFICATIONS

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Feature	Detail
Brand	Thermor
Model Number	861412
Capacity	150 Liters
Dimensions (L x W x H)	600 x 600 x 1045 mm (approx. 23.6 x 23.6 x 41.1 inches)
Weight	40.4 kg (approx. 89 lbs)
Power Source	Electric Cable
Mounting Type	Vertical Wall-Mounted
Special Features	Overheat Protection, Low Water Flow Protection, ACI Hybrid Anti-Corrosion System, Steatite Heating Element
Energy Efficiency Rating	C

*Note: Dimensions provided in the source data (600 x 600 x 1045 cm) appear to be a unit error and have been interpreted as millimeters for a 150L water heater.*

## 9. WARRANTY & SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase or contact Thermor customer service directly. Keep your proof of purchase and model number (861412) readily available when seeking support.

Please note that information regarding the availability of spare parts was not provided in the product details. For spare parts inquiries, contact Thermor customer service.