



Manuals.plus /

› Thermor /

› Thermor DURALIS ACI Hybrid 300L Water Heater User Manual

## Thermor DURALIS 300L Mono 292077

# Thermor DURALIS ACI Hybrid 300L Water Heater User Manual

Model: 292077

## 1. INTRODUCTION

---

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Thermor DURALIS ACI Hybrid 300L Monophase Water Heater. Please read these instructions carefully before installation and use, and keep them for future reference. Proper installation and maintenance are crucial for the longevity and optimal performance of the appliance.

## 2. SAFETY INSTRUCTIONS

---

**Important:** Installation and maintenance must be performed by a qualified professional in accordance with local regulations and standards.

- **Electrical Safety:** Ensure the electrical supply matches the specifications of the water heater. Always disconnect power before any maintenance or service. The appliance must be properly grounded.
- **Water Pressure:** Install a safety group (pressure relief valve) on the cold water inlet to protect against excessive pressure.
- **Hot Water:** The water heater produces hot water. Exercise caution to prevent scalding. Consider installing a thermostatic mixing valve if necessary.
- **Location:** Install the water heater in a frost-free area, away from flammable materials, and with adequate ventilation. Ensure the floor can support the weight of the full tank.
- **Children and Vulnerable Persons:** This appliance is not intended for use by persons 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

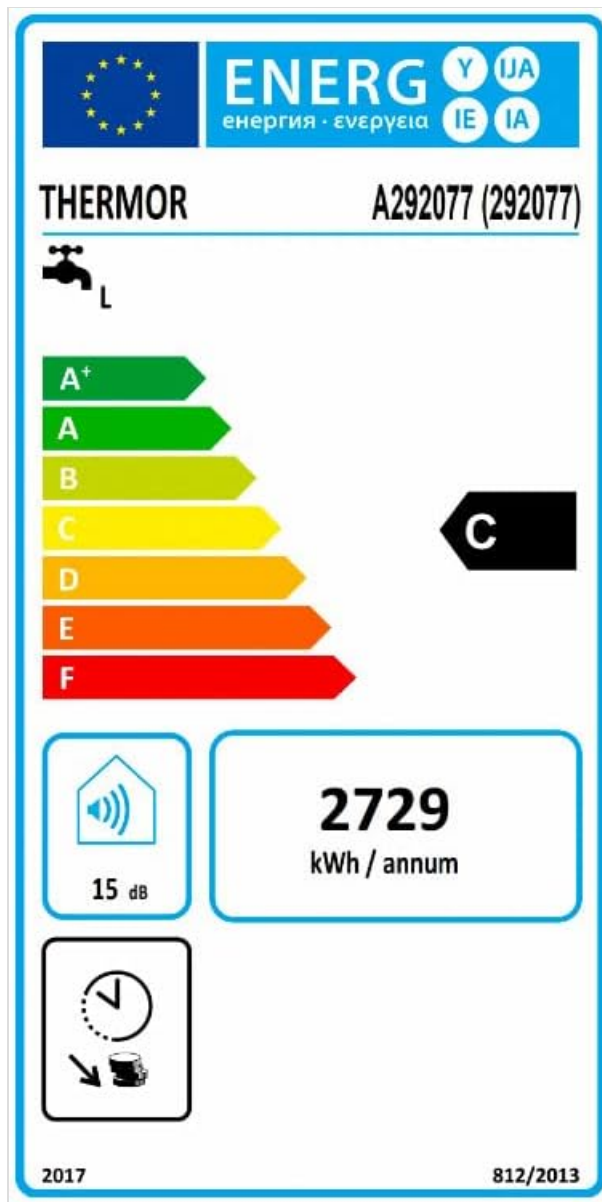
---

The Thermor DURALIS ACI Hybrid 300L is a high-capacity electric water heater designed for efficient hot

water production. It features ACI Hybrid technology for enhanced corrosion protection and durability.



**Figure 3.1: Internal Components.** This image shows a cutaway view of the water heater, illustrating the internal tank, heating element, and the protective anode system, which are key to its operation and longevity.



**Figure 3.2: Energy Label.** The energy label indicates the appliance's energy efficiency class (C) and its annual energy consumption (2729 kWh/annum), providing important information for energy management.



**Figure 3.3: Bottom Connections.** This view shows the underside of the water heater with the cold water inlet (blue), hot water outlet (red), and the electrical connection point, along with the removable access panel for maintenance.



**Figure 3.4: Installed Unit.** An example of the water heater installed in a typical utility or storage space, demonstrating its vertical orientation and integration into a home environment.

## 4. SETUP AND INSTALLATION

Installation of the Thermor DURALIS ACI Hybrid water heater requires adherence to specific guidelines to ensure safety and optimal performance. It is strongly recommended that installation be carried out by a certified professional.

### 4.1 Pre-installation Checks

- **Location:** Choose a suitable location that is protected from frost, easily accessible for maintenance, and has a floor capable of supporting the water heater's weight when full (approx. 360 kg for 300L).
- **Water Supply:** Ensure adequate cold water supply pressure and a drain point for the safety group.
- **Electrical Supply:** Verify that the electrical circuit is dedicated, correctly sized, and protected by appropriate circuit breakers and a residual current device (RCD). The unit requires a monophasic supply.

### 4.2 Mounting

The water heater is designed for vertical wall mounting. Use appropriate wall fixings suitable for the weight of the full appliance and the wall material. Ensure the unit is level and securely fastened.

### 4.3 Water Connections

1. Connect the cold water inlet (marked blue) to the main cold water supply via a safety group. The safety group must be installed according to manufacturer instructions and local regulations.
2. Connect the hot water outlet (marked red) to the domestic hot water distribution system.
3. Ensure all connections are watertight.

## 4.4 Electrical Connections

1. Ensure the main power supply is OFF at the circuit breaker.
2. Remove the electrical connection cover at the bottom of the unit (refer to Figure 3.3).
3. Connect the electrical cable to the terminal block, ensuring correct polarity (Phase, Neutral, Earth). The unit is designed for monophase connection.
4. Secure the cable and replace the cover.

## 4.5 Filling and Initial Startup

1. Open a hot water tap in your home to allow air to escape.
2. Open the cold water inlet valve to begin filling the tank.
3. Once water flows steadily from the hot water tap, close the tap. The tank is now full.
4. Check for any leaks at the connections.
5. Restore power to the water heater. The unit will begin heating the water to the factory preset temperature.

# 5. OPERATING INSTRUCTIONS

---

The Thermor DURALIS ACI Hybrid water heater is designed for automatic operation once installed and powered. It maintains the water temperature within the set parameters.

## 5.1 Temperature Setting

The water heater typically comes with a factory-set temperature. If your model includes an external thermostat or control panel, you can adjust the desired water temperature. Refer to the specific control interface instructions provided with your unit for detailed adjustment procedures. It is generally recommended to set the temperature between 55°C and 60°C for optimal balance between comfort and energy efficiency, while also preventing bacterial growth.

## 5.2 ACI Hybrid Technology

The ACI Hybrid system provides advanced protection against corrosion, extending the lifespan of the tank. This system operates automatically and requires no user intervention during normal operation.

# 6. MAINTENANCE

---

Regular maintenance ensures the efficiency and longevity of your water heater. It is recommended that annual maintenance be performed by a qualified professional.

- **Safety Group:** Manually operate the safety group's drain valve at least once a month to flush out any sediment and ensure it is not blocked. This helps prevent pressure build-up.
- **Anode Check:** The ACI Hybrid system uses an electronic anode. While it requires less frequent inspection than traditional sacrificial anodes, a professional should check its operation during annual maintenance.
- **Descaling:** Depending on your water hardness, the heating element and tank may accumulate scale. Descaling should be performed periodically by a professional to maintain heating efficiency.
- **Draining the Tank:** If the water heater is to be out of use for an extended period (e.g., during holidays) or if there is a risk of freezing, the tank should be drained. Disconnect power, close the cold water inlet, open a hot water tap, and open the safety group's drain valve.

- **External Cleaning:** Clean the exterior of the water heater with a soft, damp cloth. Do not use abrasive cleaners or solvents.

## 7. TROUBLESHOOTING

Before contacting customer service, review the following common issues and their potential solutions.

Problem	Possible Cause	Solution
No hot water	No power supply Thermostat tripped Heating element failure	Check circuit breaker/RCD. Restore power. Reset thermostat (if accessible). Contact a qualified technician.
Insufficient hot water	Incorrect temperature setting Excessive hot water consumption Scale build-up on element	Adjust thermostat to a higher temperature. Allow more time for reheating. Schedule descaling by a professional.
Water leaking from safety group	Normal expansion during heating Faulty safety group Excessive mains pressure	This is normal. Ensure the drain pipe is clear. Contact a qualified technician to inspect/replace. Install a pressure reducer on the main water supply.
Unusual noises (e.g., banging, popping)	Scale build-up on heating element	Schedule descaling by a professional.

If the problem persists after attempting these solutions, or if you encounter any other issues, please contact a qualified Thermor service technician.

## 8. SPECIFICATIONS

Feature	Specification
Brand	Thermor
Model Number	292077
Type	ACI Hybrid Electric Water Heater
Capacity	300 Liters
Energy Class (Sanitary)	C
Power Supply	Monophase
Empty Weight	60 kg
Dimensions (L x W x H)	Refer to product documentation for exact dimensions.

## 9. WARRANTY AND SUPPORT

---

Your Thermor DURALIS ACI Hybrid water heater is covered by a manufacturer's warranty. The specific terms and duration of the warranty may vary by region and purchase date. Please retain your proof of purchase (invoice or receipt) as it will be required for any warranty claims.

For technical support, warranty claims, or to schedule professional service, please contact your local Thermor distributor or authorized service center. Contact information can typically be found on the Thermor official website or in your purchase documentation.