

Thermex ER80V Combi

Thermex ER80V Combi Electric Water Heater User Manual

Model: ER80V Combi

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Thermex ER80V Combi Electric Water Heater. Please read this manual thoroughly before installation and use, and keep it for future reference.

The Thermex ER80V Combi is a combined hot water tank with an integrated heat exchanger and an electric heating element. It is designed for efficient use with alternative energy sources, such as central heating systems, gas and fuel boilers, heat pumps, or solar panels.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation and maintenance must be performed by qualified personnel in accordance with local regulations and this manual.
- Ensure the power supply matches the specifications of the water heater (230V, 6 Amps).
- Do not operate the water heater if it is damaged or malfunctioning.
- Always disconnect power before performing any maintenance or repairs.
- The water heater must be properly grounded.
- Do not block the pressure relief valve.
- Keep flammable materials away from the water heater.
- 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

The Thermex ER80V Combi water heater features a robust design for reliable hot water supply. Key components include:

- **80-Liter Tank:** Provides ample hot water capacity.

- **Integrated Heat Exchanger:** Allows connection to external heating sources for energy efficiency.
- **Electric Heating Element:** For independent electric heating.
- **Bio-Glassline Coating:** Applied to the inner tank and heat exchanger for maximum corrosion protection.
- **Anode Protection:** Extends the lifespan of the heating element.
- **Double Safety Thermostat:** Controls internal heating and temperature adjustment.
- **External Heating Connections:** Located on the right side for easy integration.

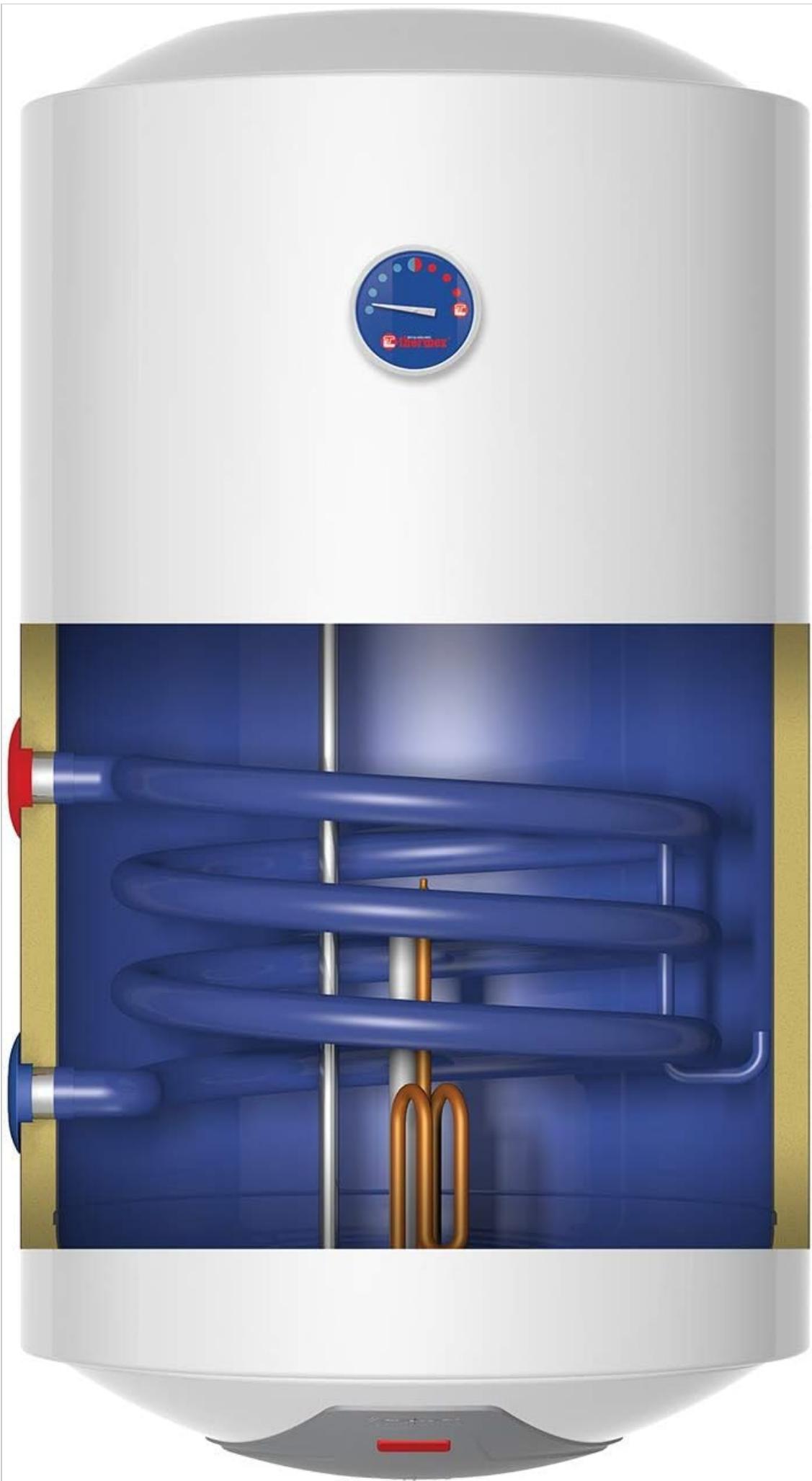


Figure 1: Internal view of the Thermex ER80V Combi water heater, illustrating the integrated heat exchanger coil and electric heating element.

4. SETUP AND INSTALLATION

The Thermex ER80V Combi water heater is designed for vertical wall mounting. Wall anchors are not included and must be sourced separately.

4.1 Unpacking

Carefully remove the water heater from its packaging. Inspect for any damage during transit. The package includes the water heater unit, a 3-way safety valve (pressure reducing, non-return, and purge valve combined), and a power cable.

4.2 Mounting

1. Choose a suitable vertical wall location capable of supporting the full weight of the water heater when filled (approx. 80 kg + unit weight).
2. Mark the drilling points for the wall anchors according to the unit's dimensions (445 x 459 x 771 mm).
3. Securely mount the water heater to the wall using appropriate anchors.

4.3 Plumbing Connections

- Connect the cold water inlet and hot water outlet to the 1/2 inch connections on the unit.
- Install the provided 3-way safety valve on the cold water inlet. Ensure proper drainage for the purge valve.
- Connect the external heating source (e.g., central heating, solar panels) to the 1/2 inch heat exchanger connections located on the right side of the unit.
- Ensure all connections are watertight.

4.4 Electrical Connection

- Connect the power cable to a grounded 230V, 6 Amp electrical supply.
- Ensure the electrical installation complies with all local electrical codes.

5. OPERATING INSTRUCTIONS

5.1 Initial Start-up

1. Before switching on, ensure the water heater is completely filled with water. Open a hot water tap to allow air to escape until water flows steadily.
2. Once filled, connect the power supply.

5.2 Temperature Adjustment

The internal heating is controlled by a double safety thermostat and a temperature adjustment knob. Use the knob to set your desired water temperature.

5.3 Using the Heat Exchanger

The integrated heat exchanger allows the water to be heated by an external source. When the external heating system is active, the electric heating element can be switched off to save energy. This is particularly useful with solar panels during summer months.

5.4 Electric Heating

If no external heat source is available or sufficient, the electric heating element can be activated to heat the water. The electric heating element can also be switched on and off independently.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your water heater.

- Anode Inspection/Replacement:** The heating element is protected by an anode. This anode should be inspected annually and replaced as needed by a qualified technician to prevent corrosion.
- Safety Valve Check:** Periodically check the 3-way safety valve for proper operation. Follow the manufacturer's instructions for testing.
- Cleaning:** Clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners.
- Descaling:** In areas with hard water, descaling of the tank and heating elements may be required periodically. This should be performed by a qualified professional.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No hot water (electric heating)	No power supply; thermostat set too low; heating element failure.	Check power connection and circuit breaker; adjust thermostat; contact service for element replacement.
Water not hot enough	Thermostat set too low; insufficient external heat source; sediment buildup.	Increase thermostat setting; check external heating system; consider descaling.
Water leaking from safety valve	Normal operation due to thermal expansion; excessive water pressure; faulty valve.	Ensure proper drainage; check incoming water pressure (max 8 Bar); replace valve if faulty.
Unusual noises	Sediment buildup in tank; loose components.	Contact service for descaling; inspect for loose parts.

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

8. SPECIFICATIONS

Model	ER80V Combi
Capacity	80 Liters
Mounting Method	Vertical Wall Mount
Dimensions (W x D x H)	445 x 459 x 771 mm
Weight (empty)	22.34 kg
Electrical Connection	230 V, 6 Amps
Connected Load (Electric)	1.2 kW
Heat Exchanger Power	6.5 kW

Max Operating Pressure	8 Bar
Water Connections	1/2 inch
Heat Exchanger Connections	1/2 inch (right side)
Protection Class	IPX4
Energy Efficiency Class	C



THERMEX ER 80 V



1426
kWh/annum

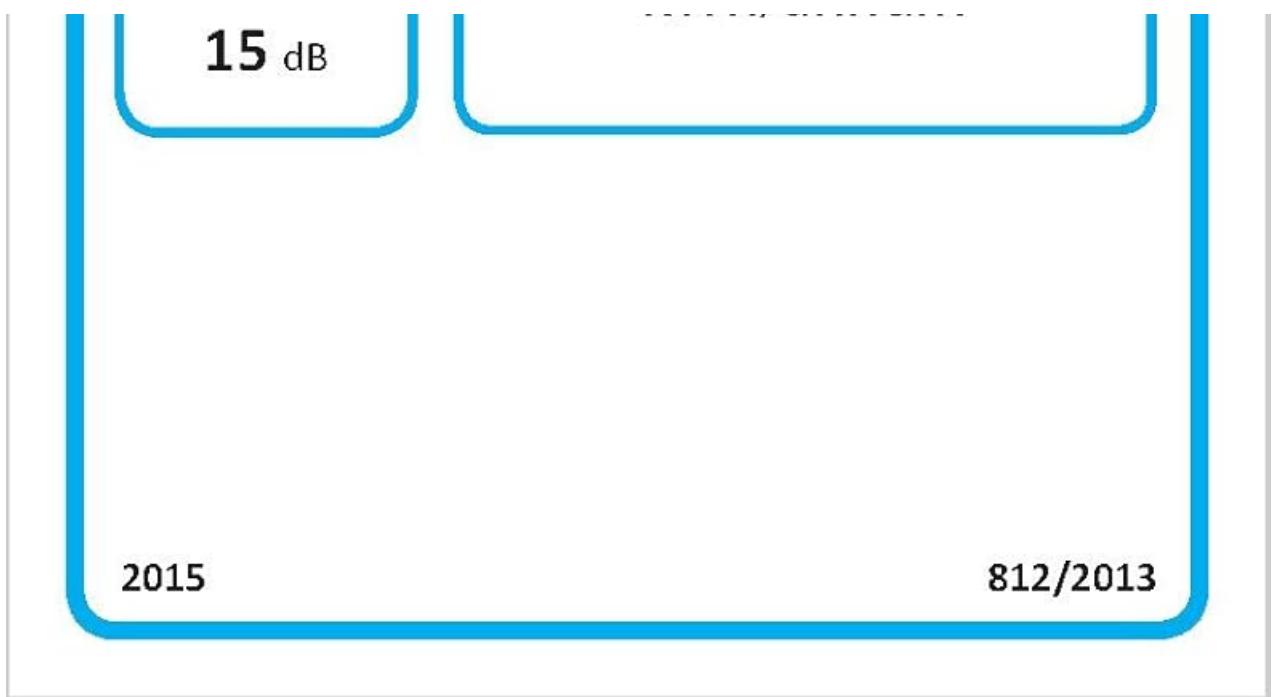


Figure 2: Energy efficiency label for the Thermex ER80V Combi, indicating Class C efficiency.

9. WARRANTY AND SUPPORT

Specific warranty terms and conditions are typically provided with the product documentation at the time of purchase. Please refer to your purchase receipt and the included warranty card for detailed information regarding coverage and duration.

For technical support, service, or spare parts, please contact your local Thermex dealer or authorized service center. Ensure you have your product model number (ER80V Combi) and purchase details available when contacting support.