HTW HTWTV100ESS

HTW HTWTV100ESS Vertical Electric Water Heater User Manual

Model: HTWTV100ESS | Capacity: 100 Liters | Power: 1.5 kW

1. Introduction

Thank you for choosing the HTW HTWTV100ESS Vertical Electric Water Heater. This manual provides essential information for the safe installation, operation, and maintenance of your appliance. Please read these instructions carefully before use and retain them for future reference.

2. Important Safety Instructions

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.
- The pressure relief valve must be installed and regularly checked to ensure proper operation. Do not block or tamper with this valve.
- Keep flammable materials away from the water heater.
- Do not allow children to operate or play near the water heater.
- Ensure proper grounding of the electrical supply.
- This appliance is designed for indoor installation only.

3. Product Overview and Features

The HTW HTWTV100ESS is a vertical electric water heater designed for efficient hot water supply. Key features include:

- **Capacity:** 100 Liters
- **Power Output:** 1.5 Kilowatts
- **Pressure Relief Valve:** Essential safety component to prevent overpressure.
- **Incoloy 840 Heating Element:** Provides durability and efficient heating.
- **Anti-corrosion Magnesium Anode:** Extends the lifespan of the tank and heating element, especially in hard water areas.
- **Sapphire Enamel Steel Tank:** Ensures robust and long-lasting performance.
- **External Thermometer:** Displays the current water temperature inside the tank.

- **Adjustable Temperature:** Allows users to set the desired water temperature precisely.
- **Electrolytic Sleeves:** Act as insulators to prevent galvanic corrosion between dissimilar materials in the installation, thereby enhancing durability.
- **Vertical Installation:** Designed specifically for vertical mounting.

Figure 3.1: Front view of the HTW HTWTV100ESS Vertical Electric Water Heater, showing the external thermometer and water inlet/outlet connections.

Figure 3.2: Diagram illustrating key features such as multiple protections, anti-corrosion anode, electrolytic sleeves, external thermometer, adjustable temperature, Incoloy 840 resistance, high-density polyurethane insulation, sapphire enamel tank, safety valve, and overheat protection.

Figure 3.3: Detailed text descriptions of features including vertical installation, Incoloy 840 resistance, anti-corrosion magnesium anode, sapphire enamel steel tank, electrolytic sleeves, safety valve, external thermometer, and adjustable temperature.

4. Setup and Installation

Installation of the HTWTV100ESS water heater should only be performed by a certified technician to ensure safety and compliance with local regulations.

4.1. Mounting

- This model is designed for **vertical installation**. Ensure the mounting surface is strong enough to support the full weight of the water heater when filled with water (approx. 100 kg + unit weight).
- Use appropriate mounting hardware (not included) suitable for your wall type.

4.2. Plumbing Connections

- Connect the cold water inlet (blue marking) and hot water outlet (red marking) to your plumbing system.
- Install the supplied **pressure relief valve** on the cold water inlet line. Ensure it is properly oriented and connected to a discharge pipe leading to an open drain. Do not install any shut-off valve between the water heater and the pressure relief valve.
- Utilize the provided **electrolytic sleeves** during connection to prevent galvanic corrosion between dissimilar metals in the plumbing system, thereby extending the life of the unit.
- After connecting, slowly fill the tank with water and check for leaks before connecting to power. Open a hot water faucet to allow air to escape during filling.

4.3. Electrical Connection

- Connect the water heater to a dedicated electrical circuit with appropriate voltage (220-240V, 50/60Hz) and overcurrent protection (1500W, 6.5A).
- Ensure proper grounding as per local electrical codes.
- The electrical connection should be made by a qualified electrician.

5. Operating Instructions

5.1. Initial Startup

- Ensure the tank is completely filled with water before turning on the power.
- Switch on the electrical supply to the water heater. The indicator light (if present) will illuminate.

5.2. Temperature Adjustment

- The water heater features an **adjustable temperature control**. Locate the thermostat knob, usually at the bottom or side of

the unit.

- Turn the knob to set your desired water temperature. Higher settings will provide hotter water but consume more energy.
- The **external thermometer** will display the current water temperature inside the tank. Allow time for the water to heat up to the set temperature.

5.3. Normal Operation

- Once the desired temperature is reached, the heating element will cycle on and off automatically to maintain the set temperature.
- Hot water will be available at your faucets.

6. Maintenance

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

6.1. Pressure Relief Valve Check

- Test the pressure relief valve at least once a year by lifting the lever. Water should flow out of the discharge pipe. If no water flows, or if it continues to drip after the lever is released, the valve may need replacement.

6.2. Magnesium Anode Inspection/Replacement

- The **anti-corrosion magnesium anode** protects the tank from corrosion. Its lifespan depends on water quality. It is recommended to have a qualified technician inspect and replace the anode every 1-3 years, especially in areas with hard water.

6.3. Draining the Tank

- If the water heater will be out of use for an extended period or if there is a risk of freezing, drain the tank.
- To drain: Disconnect power, close the cold water inlet valve, open a hot water faucet, and open the drain valve at the bottom of the water heater.

6.4. Cleaning

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

7. Troubleshooting

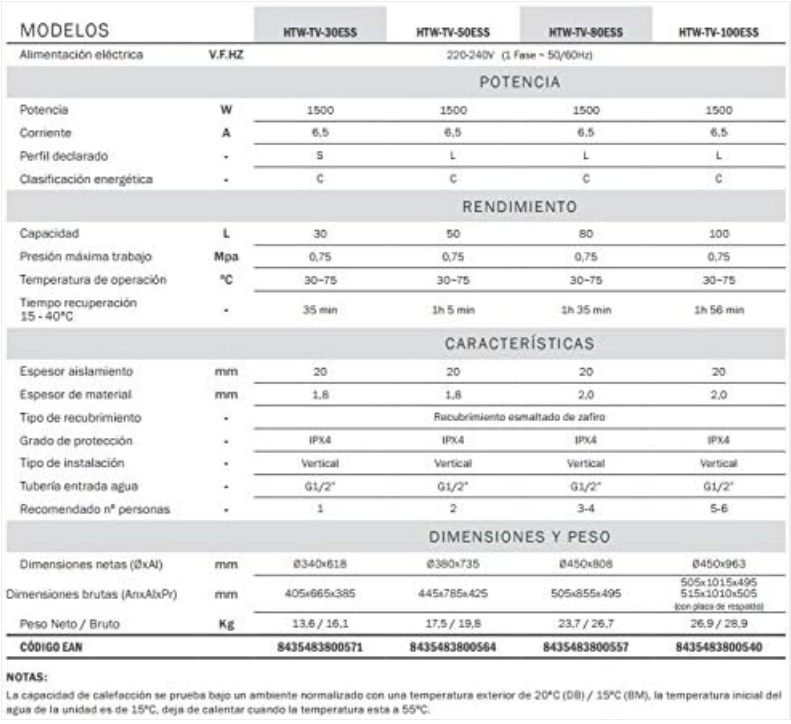
Before contacting customer service, please refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No hot water or insufficient hot water.	No power supply. Thermostat set too low. Heating element failure. Overheat protection tripped.	Check circuit breaker/fuse. Adjust thermostat to a higher setting. Contact a qualified technician for inspection/replacement. Reset overheat protection (usually a red button, consult technician if unsure).
Water leaking from the unit.	Loose plumbing connections. Pressure relief valve discharge. Tank corrosion (rare).	Tighten connections. This is normal if pressure is too high; check water pressure or test valve. Contact a qualified technician.

Problem	Possible Cause	Solution
Unusual noises from the tank.	Sediment buildup. Heating element issues.	Drain and flush the tank (consult technician). Contact a qualified technician.

8. Technical Specifications

Feature	Specification
Brand	HTW
Model	HTWTV100ESS
Capacity	100 Liters
Heat Output	1.5 Kilowatts
Power Source	Electric Cable (220-240V, 50/60Hz)
Special Feature	Pressure Relief Valve
Material	Alloy Steel (Sapphire Enamel Tank)
Installation Style	Vertical Installation
ASIN	B0719SXWHN



MODELOS		HTW-TV-30ESS	HTW-TV-50ESS	HTW-TV-80ESS	HTW-TV-100ESS
Alimentación eléctrica	V.F.HZ	220-240V (1 Fase ~ 50/60Hz)			
POTENCIA					
Potencia	W	1500	1500	1500	1500
Corriente	A	6,5	6,5	6,5	6,5
Perfil declarado	-	S	L	L	L
Clasificación energética	-	C	C	C	C
RENDIMIENTO					
Capacidad	L	30	50	80	100
Presión máxima trabajo	Mpa	0,75	0,75	0,75	0,75
Temperatura de operación	°C	30~75	30~75	30~75	30~75
Tiempo recuperación 15 - 40°C	-	35 min	1h 5 min	1h 35 min	1h 56 min
CARACTERÍSTICAS					
Espesor aislamiento	mm	20	20	20	20
Espesor de material	mm	1,8	1,8	2,0	2,0
Tipo de recubrimiento	-	Recubrimiento esmaltado de zafiro			
Grado de protección	-	IPX4	IPX4	IPX4	IPX4
Tipo de instalación	-	Vertical	Vertical	Vertical	Vertical
Tubería entrada agua	-	G1/2"	G1/2"	G1/2"	G1/2"
Recomendado nº personas	-	1	2	3-4	5-6
DIMENSIONES Y PESO					
Dimensiones netas (ØxAl)	mm	Ø340x618	Ø380x735	Ø450x808	Ø450x963
Dimensiones brutas (AnxAlxPr)	mm	405x665x385	445x785x425	505x855x495	505x1015x495 515x1010x505 (con placa de respaldo)
Peso Neto / Bruto	Kg	13,6 / 16,1	17,5 / 19,8	23,7 / 26,7	26,9 / 28,9
CÓDIGO EAN		**8435483800571**	**8435483800564**	**8435483800557**	**8435483800540**

NOTAS:
La capacidad de calefacción se prueba bajo un ambiente normalizado con una temperatura exterior de 20°C (DB) / 15°C (BM), la temperatura inicial del agua de la unidad es de 15°C, deja de calentar cuando la temperatura esta a 55°C.

Figure 8.1: Detailed technical specifications table for various HTW water heater models, including the 100-liter version, showing power, current, capacity, working pressure, temperature range, recovery time, insulation thickness, material, protection degree, and dimensions.

9. Warranty and Support

The HTW HTWTV100ESS water heater comes with a **5-year warranty on the tank**, reflecting our commitment to quality. For warranty claims or technical support, please contact your retailer or the HTW customer service department.
Please have your model number (HTWTV100ESS) and purchase date available when contacting support.

For further assistance, visit the official HTW website or consult your local distributor.