TESY TESY Electric Water Cylinder

TESY BiLight Electric Hot Water Cylinder 100 Litre User Manual

Model: TESY Electric Water Cylinder

1. Product Overview

The TESY BiLight Electric Hot Water Cylinder is an unvented hot water solution designed for energy-efficient hot water supply to multiple points of use. It incorporates Insutech technology to reduce heat loss by 16% compared to similar products, meeting high European Energy Efficiency, Quality, and Safety standards.
Key features include:

- Offers Low Cost, Energy Efficient Hot Water
- Patented Piston Effect to control refilling
- Glass Ceramic Coating for corrosion resistance and Freeze Protection
- Wall Mounted design, suitable for various settings including homes, businesses, kitchens, hairdressers, and camp sites
- Light Indicator to show heating status
- Equipped with a Safety Temperature Pressure Valve
- Thermal Load Temperature Safety Cut Out for enhanced safety

Figure 1: Front view of the TESY BiLight Electric Hot Water Cylinder, showing the main unit and indicator panel.

2. Safety Information

Important: Installation of unvented hot water cylinders is subject to Building Control Regulations in the UK. It is mandatory to seek advice from and use a qualified installer for the installation of this product. Failure to comply with regulations can lead to serious hazards and may void your warranty.
UK building regulations require two forms of safety to be installed. This hot water cylinder is fitted with a temperature safety cut-off switch. Additionally, it is strongly recommended to install a safety expansion vessel and a pressure release valve within the connecting plumbing system to ensure full compliance and safe operation.

- Always disconnect power before performing any maintenance or installation.
- Ensure proper grounding of the electrical connection.
- Do not operate the unit if any part is damaged or if there are signs of leakage.
- Keep flammable materials away from the water heater.
- Ensure adequate ventilation around the unit.

3. Installation (Setup)

Installation must be carried out by a qualified professional in accordance with local building codes and regulations, particularly those pertaining to unvented hot water systems.

3.1. Site Selection

- Choose a location that can support the weight of the cylinder when full (approximately 126 kg for the 100 Litre model).
- Ensure adequate space for maintenance and access to connections.
- The unit is designed for wall mounting.
- Protect the unit from freezing temperatures.

3.2. Mounting the Unit

1. Securely attach the wall mounting brackets to a structurally sound wall using appropriate fasteners.
2. Carefully lift and hang the cylinder onto the installed brackets. Ensure it is level and stable.

3.3. Plumbing Connections

- Connect the cold water supply to the inlet (typically marked blue). The unit has 15mm water connections.
- Connect the hot water outlet (typically marked red) to your hot water distribution system.
- Install a safety expansion vessel and pressure release valve as required by regulations and manufacturer recommendations.
- Ensure all connections are watertight.

3.4. Electrical Connection

- Connect the unit to a dedicated 220 Volts electrical supply circuit.
- Ensure the circuit is protected by an appropriate circuit breaker and RCD (Residual Current Device).
- All electrical work must comply with local electrical codes and be performed by a qualified electrician.

Figure 2: Detailed views of the TESY BiLight water heater, showing the bottom connections, temperature control dial, and wall mounting bracket.

4. Operation

Once installed and filled with water, the TESY BiLight water heater is designed for straightforward operation.

4.1. Initial Start-up

1. Ensure the cylinder is completely filled with water before switching on the power. Open a hot water tap to allow air to escape until water flows steadily.
2. Switch on the electrical power supply to the unit.
3. The light indicator on the unit will illuminate, indicating that the heating element is active and water is being

heated.

4.2. Temperature Control

The unit features a temperature control dial, typically located at the bottom or side of the unit (refer to Figure 2). Rotate the dial to adjust the desired water temperature. Higher settings will provide hotter water, but also consume more energy. The unit has a built-in overheat protection system.

4.3. Normal Operation

The water heater will automatically maintain the set temperature. The light indicator will turn off once the desired temperature is reached and will illuminate again when the heating element reactivates to reheat the water.

5. Maintenance

Regular maintenance ensures the longevity and efficient operation of your TESY BiLight water heater. All maintenance should be performed by a qualified technician.

- **Annual Inspection:** It is recommended to have the unit inspected annually by a qualified professional. This includes checking the pressure relief valve, expansion vessel, and electrical connections.
- **Anode Rod Check:** The glass-lined tank is protected by an anode rod. This rod should be inspected and replaced periodically (typically every 1-3 years, depending on water quality) to prevent corrosion.
- **Draining the Tank:** If the unit will be out of use for an extended period or if there is a risk of freezing, the tank should be drained. Consult a professional for proper draining procedures.
- **Cleaning:** Keep the exterior of the unit clean with a damp cloth. Do not use abrasive cleaners or solvents.

6. Troubleshooting

Before attempting any troubleshooting, ensure the power supply to the unit is disconnected. For complex issues, contact a qualified technician.

Problem	Possible Cause	Solution
No hot water	No power supply; tripped circuit breaker; thermostat set too low; heating element failure.	Check power supply and circuit breaker. Adjust thermostat. If problem persists, contact a qualified technician.
Insufficient hot water	Thermostat set too low; high hot water demand; sediment buildup in tank; faulty heating element.	Increase thermostat setting. Allow more recovery time between uses. Consider professional descaling. Contact technician for element check.
Water too hot	Thermostat set too high; faulty thermostat.	Lower thermostat setting. If problem persists, contact a qualified technician to replace the thermostat.
Leaking from unit	Loose plumbing connections; faulty pressure relief valve; tank corrosion.	Tighten connections. Check pressure relief valve. If tank is corroded, replacement may be necessary. Contact a qualified technician immediately.

7. Specifications

Technical specifications for the TESY BiLight Electric Hot Water Cylinder 100 Litre model:

Attribute	Detail
Brand	TESY
Model Number	TESY Electric Water Cylinder
Capacity	100 Litre
Dimensions (L x W x H)	44 x 44 x 99 cm
Item Weight (empty)	26 kg
Voltage	220 Volts
Colour	White
Style	Electric Un-Vented Vertical Hot Water Cylinder
Water Connections	15mm (Pipe connections Not Included)
Special Features	Anti-Freezing Protection, Built-in Overheat Protection, Safety Pressure Release Valve, Glass Lined - Corrosion Proof
Energy Efficiency Rating	C
First Available Date	13 March 2019

8. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact TESY customer service directly. Keep your proof of purchase for warranty claims.
For further assistance, you may also contact the seller, The Modern Group, through the Amazon platform.