

User Manual Book Electric Storage Water Heater

Conesso Series ES 15 SKY, ES 30 SKY

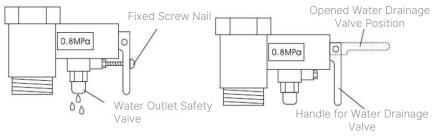
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This manual book explains everything you need to know about your new product. Please contact our Customer Care should you need further assistance through www.modena.com.

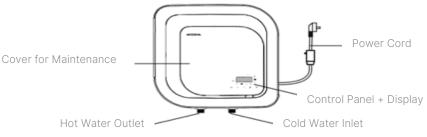
PART 1: IMPORTANT SAFETY INFORMATION

- For the correct operation of this appliance (water heater), it is necessary to pay attention that the maximum inlet water pressure is 0.8 MPa (0.8 Bar).
- If the power cord is damaged, it must be replaced by the manufacturer or qualified technicians to avoid hazard. Contact MODENA Customer Care for repair.
- The pressure relief valve must be operated and checked regularly to remove limestone deposits and to ensure that it is not blocked.
- In order to avoid hazard due to inadvertent resetting of thermal cut-off, this water heater must not be supplied through external switching device, such as timer or connected to the circuit that is regularly switch on and off by the utility.
- This water heater (appliance) cannot be used persons with special needs for their physical, sensory or mental capabilities, or with lack of experience and knowledge (including children). Unless, they have been given supervision and instruction concerning the use of the appliance in a state way and understand the hazard that will involve. Children should not play with the appliance. Cleaning and user maintenance should not be performed by children without supervision.
- The electrical storage water heater must be installed with monodirectional safety valve in the inlet pipe. When the tank pressure is over than 0.8 MPa, it will automatically activate the safety valve, and water will flow out from the drainage pipe. In any condition, the outlet valve must not be blocked. If there is a need to empty the water in the tank, close the main water supply first. Remove the fixing screw nail on the safety valve, and then lift the plastic handle up to let the water flow out naturally. See the picture below.



PART 2: NAME OF PARTS

Product Structure



Control Panel and Display



- 1. Set Temperature /Actual Temperature
- 2. Error Code Display Zone
- 3. Time Display Zone
- 4. Function Icons Display Zone
- 5. Heating Status Display Zone
- 6. Function Buttons Zone

Button Function

- "General Operating Mode" Setting
- Power On/Off
 - **Power and Timer Modes Selector**: press it to interchange heating power (300/500/800W) and timer modes (morning/evening/morning+evening timer).
- Wi-Fi Connection Configuration: press it for 3s to connect to EZ Mode (using external Wi-Fi network). Press @ + O to connect to AP Mode (using water heater's built-in Wi-Fi).
- \odot/\odot Temperature and Time Adjustment
- ℰ+⊗ Remote Control Configuration

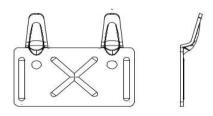
NOTE

The button functions on the remote control are same as on the water heater.

PART 3: INSTALLATION

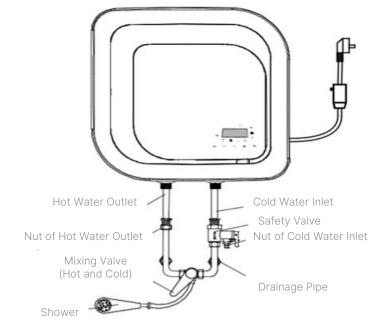
Installation Instruction

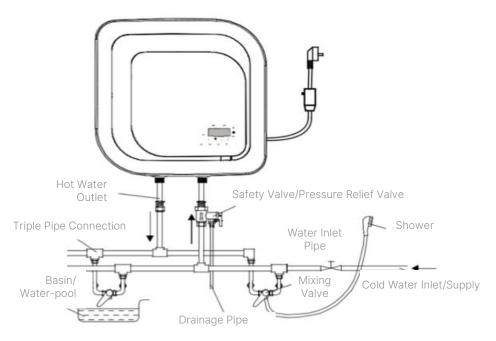
- The installation for the plumbing and the electrical wiring must be done by qualified technicians, according to the installation instructions and in compliance to the local authority regulations.
- This water heater must be installed as near as possible to the usage stand-point to reduce the heat loss along the pipes. To facilitate maintenance process, make 50 cm distance for the easy-access of the electrical parts.
- This water heater should be installed on a solid cement wall and close to the power and the water source.
- Use only the accessories provided in the wrapping box to install this electric storage water heater.
- Before determining the bolt holes position, ensure that the water heater position is more than 200 mm from the floor or ceiling board in order to facilitate maintenance process when necessary.
- After selecting the proper position of installation, use the anchor bolt to secure the hanging board firmly (see the picture below), and then install the appliance.
- MODENA is not responsible for any improper installation and incorrect operation of this appliance due to the failure of user in following the instructions in this manual book.



Plumbing Connection

- All piping parts should use G1/2" standard. Wind some white sealing tape to the thread sector of the inlet pipe (marked with blue).
- Install the safety valve to the inlet pipe and then connect it to the cold water pipe supply line.
- Install a drainage pipe to the safety valve to drain away waste water.
- Install the drainage pipe in continuously downward direction and in a frost-free environment.
- Connect the hot water pipe (marked with red) to the outlet pipe.
- Do not over-tighten the safety valve and all pipe connections as it may cause the damage to the connection.
- Make sure that all pipes are clean before installing the tap/valve and shower.





Electrical Connection

- Electrical connection must be done by a qualified technician.
- Electrical (power) supply is connected directly to the connector provided with the *grounding* connection. The ground cord must be green/yellow in color and attached to the terminal marked by the *grounding* symbol.
- The water heater must be connected to the power supply that out of reach from the person who is using shower.
- All wiring must conform to the local requirements.

NOTE

All plumbing connections must be done completely before doing the electrical connections. Fill the tank with water and switch on the valve to let the water exiting out until all the air inside the tank has been expelled out. The electricity should only be turned on after the tank is full of water.

PART 4: HOW TO USE

- Check all the plumbing (piping) connections to early detect leakage before turning on this electric storage water heater.
- Make sure that the tank has been fully filled up with water; otherwise it can cause the heating elements to be damaged.
- The water heater needs to be turned on for certain period of time to reach the desired temperature.
- During the heating process, it is normal to see a bit of drip from the safety valve. Do not cover the safety valve outlet hole.
- Connect the water outlet hole to a drainage pipe. Water may drip from the safety valve of the drainage pipe of; therefore, this pipe must be exposed to the atmosphere (air).
- The safety valve needs to be operated regularly (preferably at least every six months) to remove the limestone deposit and to ensure that it is not blocked.

Operation Guidelines

- Temperature Setting: press \bigotimes / \bigotimes buttons to adjust the temperature scale ranging from 30-75°C.
- Time Setting: Long press button for over 2s to set the clock time. When the hour clock is flashing then press \bigotimes/\bigotimes to set the

hour data. Re-press to set the minute data. System will quit automatically if there is no operation in 5s.

- Standard Heating: the water heater will be in the full working cycle to keep the hot water at the set temperature for 24 hours.
- Heating Timer: the water heater will ensure a hot water supply with the set temperature at the required time.
- Wi-Fi Controller: users can install the customized Apps (IOS or Android version) on smart-phone; connect to Wi-Fi or cellular data (3G/4G) to control the water heater.
- Remote control configuration: turn on the water heater within 15s; press ⊕ + ⊙ buttons to enter configuration; then, the water heater will beeps if the configuration is successful.

Modena Smart Application Configuration

A. EZ Mode

- 1. Install *Modena Smart* application on the smart-phone.
- 2. Connect the smart-phone with Wi-Fi network.
- 3. Open the installed *Modena Smart* application.
- 4. Follow the registration steps instructed by the application.
- 5. Turn on the water heater; turn it off after 10s, and then turn it on again (restart). Leave the appliance in the *standby* mode.
- 6. Click "+" icon at the top right of the application or click "Add Device" icon.
- 7. Choose "Large Home Appliance" menu and then choose "Water Heater".
- 8. Long press the (*) button on the appliance for 3s until the Wi-Fi indicator light blinking, and then click "Confirm indicator rapidly blink" on the application.
- 9. Input the username and the password of the Wi-Fi network and then click "Confirm".
- 10. The application will do pairing with the appliance and wait until the process 100% finish.
- 11. After the "Device added successfully" notification appear, click "Done". The application is ready to use.
- 12. If it fails, click "Retry" and repeat the steps above.

B. <u>AP Mode</u>

- 1. Press "[®]" (Wi-Fi) + "[®]" buttons on the water heater at the same time to confirm that the Wi-Fi indicator is flashing slowly.
- 2. Select "Other Mode" in the upper right corner of the EZ network page.
- 3. Select "AP Mode" in the "Select Network Configuration Mode" page.
- 4. Click "Confirm indicator slowly blink" on the AP network configuration confirmation page.
- 5. Enter the Wi-Fi information and password; click "Confirm" to jump to the Wi-Fi hotspot connection introduction page.

- 6. Click "Go to connect" to enter to the Wi-Fi-choosing pages in smart phone.
- 7. Select "SmartLife" hotspot and connect.
- 8. The application will do pairing with the device, wait until the process 100% finish.
- 9. After "Device added successfully" notification appears, click "Done", and the application is ready to use.
- 10. If it fails, click "Retry" and repeat above steps.

Resetting The Factory Default Setting

Press 🏽 + 🔗 buttons to reset the factory default setting

Factory Default Setting				
Standard Time	Mode	Temperature Setting	Rated Power Input	
12.00	Standard Heating	75 °C	500 W	

PART 5: MAINTENANCE

General Instruction

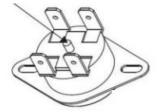
WARNING!

Do cut off the power supply before do the water heater maintenance to avoid the danger of electric shock.

- Check the power plug and the power socket as often as possible. Electrical contact must be secured and also must be provided proper grounding. The power plug and the power socket must not heat excessively.
- If the water heater is not used for a long time, especially in regions with low air temperature (below 0 °C), it is necessary to drain the water from the heating tank to prevent damage of the water heater due to the water-freezing in the internal tank. Refer to the "Important Safety Information" part in this manual book for the method of draining away the water from the internal tank.

- To ensure the durable operation of water heater, it is recommended to regularly clean the internal tank and remove the deposits in the electric heating element. Also, check the condition of the magnesium anode (whether it is fully decomposed or not) and, if necessary, replace it with a new one in case of full decomposition. Tank cleaning frequency depends on the hardness of the water in the usage location. Cleaning must be performed by MODENA technicians or authorized maintenance services.
- This water heater is equipped with a thermal switch, which cuts off the power supply of the heating element if the water is overheating or no water in the heating element. If the water heater has been connected to the power (electricity) source but the water is not heated and the indicator does not light up, then the thermal switch is "OFF". To reset the water heater to the normal operating condition, it is necessary to:
 - 1. De-energize the water heater; remove the plate of the front cover (upside);
 - 2. Press the button that is located at the center of the thermal switch (see the picture below);
 - 3. If the button is not pressed and there is no clicking, then you should wait until the thermal switch cools down to the default temperature.

Manual Reset Button



WARNING!

Non-professionals technicians are not allowed to disassemble the thermal switch to reset. Please contact MODENA professionals for the appliance maintenance. Otherwise, MODENA will not take responsibility if any accident happens because of the failed maintenance procedure

Tank Cleaning

After having been used in a long time, the tank of the water heater will have the dirt in it and therefore must be cleaned according to these steps:

- 1. Turn off the power supply.
- 2. Close the cold water valve.
- 3. Open the hot water valve.
- 4. Open the pressure relief valve (if used).
- 5. Flush / rinse the tank with cold water.
- 6. Repeat this process several times until the tank is completely clean.

Savety Valve Cleaning

Safety valves should be cleaned regularly to prevent any dirt that clogs the valve:

- 1. Remove the safety valve, then clean and wash it.
- 2. Check if the parts of the valve are still able to move well.
- 3. After cleaning the valve, install the safety valve back to its position by first giving the seal tape around the end of valve.
- 4. Fill the water heater with water after the pipes are refitted.

Magnesium Anode

Magnesium Anodes functions to neutralize the corrosive substances in the water and will run out in a certain time depending on the corrosive properties of the water. If the water has good enough quality, magnesium anode should be replaced within 2 (two) years. If the water quality is not good, magnesium anodes should be replaced 1 (one) year. To replace the magnesium anodes, contact MODENA Customer Care.

Heating Element

If the water contains lime (mud), the heating element cannot function properly (slow heat) because it was covered by a crust of lime (mud). Therefore, the heating element must be cleaned of each year. Contact MODENA Customer Care for cleaning.

PART 6: TROUBLESHOOTING

Problem	Possible Cause	Recommended Action
Indicator light cannot be on.	 Power Supply is not connected or badly connected. Indicator light is damaged. Overheating sensor is activated. 	Contact MODENA Customer Care
Water temperature is not hot enough.	 Heating elements are deactivated or damaged. Temperature controller is malfunction. No power connected to the water heater. 	 Replace the heating elements or contact MODENA Customer Care. Contact MODENA Customer Care. Check the power supply line.
No water flow out from the hot water outlet.	Main cold water valve is closed.	Turn on the main cold water valve.
Water leak	 Leakage from the plumbing connection. Leakage in the gasket. 	 Tighten the connection. Tighten the elements and replace the gasket.
Power supply is disconnected.	There is short circuit in the heating element.	ReplacetheheatingelementsorcontactMODENACustomerCare.

Error Code

- E1 Temperature sensor failure turn off the water heater immediately and contact MODENA Customer Care for the repair.
- E3 Dry heating / there is no enough water in the tank turn off the water heater immediately and contact MODENA Customer Care for the repair.

PART 7: SPECIFICATION

Model	ES 30 SKY	ES 15 SKY	
Туре	Storage (Tank)		
Installation	Vertical		
Control Panel	Touch Control + Remote Control + Wi-Fi		
Heat Source	Electric		
Heating Tank Coating	Titanium Porcelain Enamel		
Electric Safety (ELCB)	Yes		
Overpressure Safety	Yes		
Thermostat	Double		
Anti-rust	Magnihealth⁺		
Capacity	30 L	15 L	
Power	300/500/800 W		
Water Pressure	0.8 MPa		
Water Pipe Diameter	0.5 Inch		
Temperature	Max 75 °C		
Insulation Material	PUF (Polyurethane)		
Waterproof Degree	IPX4		
Product Dimension	452 x 452 x 370 mm	402 x 402 x 315 mm	
Product Weight	13.0 kg	10.3 kg	

Specifications of this appliance may change without notice to improve the quality of the product. Figures in this manual are schematic and may not match your product exactly. Values stated on the machine labels or in the documentation accompanying it are obtained in laboratory in accordance with the relevant standards. Depending on operational and environmental conditions of the appliance, values may vary.

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