

User Manual Book

Solar Water Heater

Giorno Series SH 1513 CE

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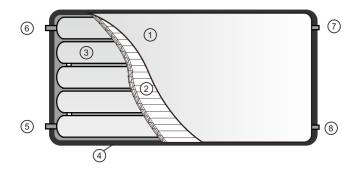
This manual book explains everything you need to know about your new product. Please contact our Customer Care should you need further assistance through www.modena.com.

PART 1: IMPORTANT SAFETY INFORMATION

- 1. The installation may only be carried out by qualified professionals.
- The pipes must be insulated with a suitable UV resistant material of the appropriate thickness in order to reduce heat loss and protect the pipes from freezing.
- 3. If you choose the model with with heating element and controller function, you must have reliable grounding. It is strictly forbidden to use this product without reliable grounding.
- 4. To avoid scalding, when the hot water tempeature is higher than 50 °C, it must be mixed with cold water before use.
- 5. It should be installed in a sunny and open area to get optimum efficiency.
- 6. Unfiltered water can cause system corrosion, it is recommended to use soft water.
- 7. The system may only be installed on roof surface. The static loadbearing capacity of the roof must be checked in accordance with local and regional stipulations at the site prior to the installation of the panels, it is necessary by means of the commissioning of a structural engineer.

PART 2: PRODUCT INTRODUCTION

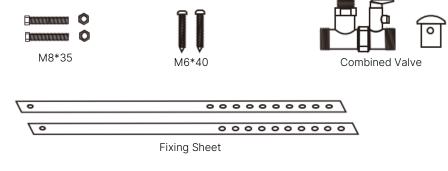
Solar Water Heater Panel



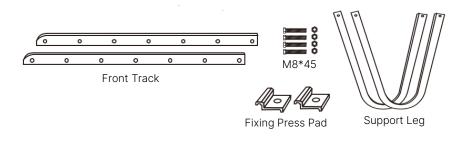
Remark:

- 1. Tempered Safety Solar Glass
- 2. Clear Heat Insulation
- 3. Storage Tank
- 4. Case
- **Standard Accessories**

- 5. Drain Hole
 - 6. Outlet Hole
 - 7. Reserve Hole
 - 8. Inlet Hole



Flat Roof Installation Accessories



Electric Back Up Accessories





Temperature Sensor



Controller

English 3

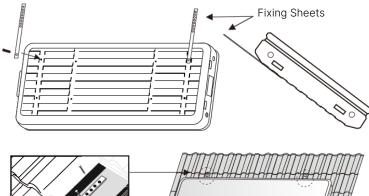
PART 3: INSTALLATION

Preparation

- 1. Check the outer shell whether it is well.
- 2. Check if the accessories are complete against the packing list.
- 3. Prepare the necessary tools before installation. Tie the safety rope and take other protective measures during the altitude operation.

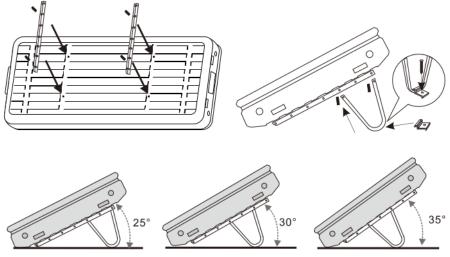
On-Roof / Slope Installation

- 1. Fix the fixing sheets to the back of the solar water heater.
- 2. Turn it over and fix the fixing sheets on the beam of the roof.
- 3. Cover the tile back.





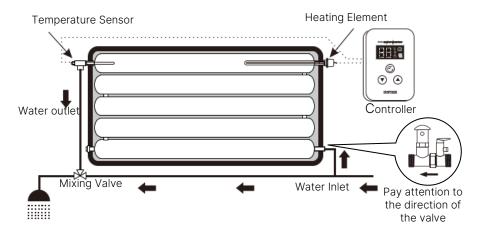
- 1. Fix the front tracks on the back of the solar water heater.
- 2. Turn it over and fix the support legs with the front tracks according to the suitable angle.
- 3. Using the fixing press pads, fit the support legs with the flat roof.



Choose suitable angle according to the local latitude

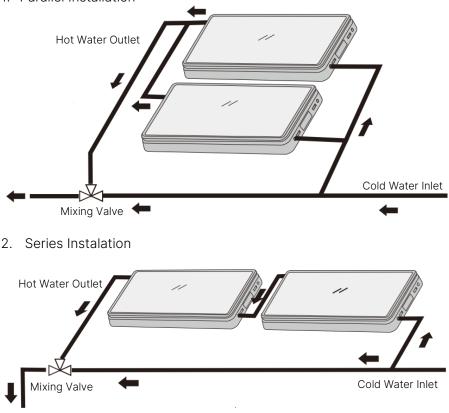
Piping and Electrical Connection Method

Install the combined value at the water inlet according to the image below. Pay attention to the direction of the value.



Several Panels Combination

1. Parallel Installation



PART 4: MAINTENANCE

If the solar water heater is installed at dusty area, it will reduce the absorption rate of the collector panel when the dust adheres to the collector surface. Therefore, the surface of the collector should be cleaned at least every half or one year according to the dirt condition. **Note:** you must ask to the professional workers to help do it.

PART 5: TROUBLESHOOTING

| Problem | Possible Cause | Recommended Actions |
|---------------------------|--|--|
| | The panel is covered by dust | Clean the dust periodically |
| Water is not hot in | The panel is covered by high towers, trees, tall building, fences, other water heaters, etc | Remove the covering / barrier or move the solar water heater to the open place. |
| sunny day | Hot water valve got leakage or cannot close well. | Check or change the outlet valve |
| | Heat loss from the pipeline | Add proper insulation along the hot water pipeline. |
| No hot water come down | No water supply | Check the water supply pipe |
| | Inlet valve damaged | Check or change the inlet valve |

PART 6: SPECIFICATIONS

| Model | SH 1513 CE |
|---------------------|----------------------------|
| Product Type | Compact Solar Water Heater |
| Color | Black |
| Capacity | 150 L |
| Maximum Temperature | 70 °C |
| Maximum Pressure | 5 bars |
| Insulation Material | ESPP |
| Backup Power | 1500 W |
| Piping Connection | 2x3/4" male thread |
| Weight | 42 kg |
| Dimension | 2184 x 814 x 212 mm |
| Collector Area | 1.75 m2 |

Specifications of this appliance may change without notice to improve the quality of the product. Pictures 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.



