

User Manual Book

(Gas Instant Water Heater)

Rapido Series
GI 0631 L

MODENA

Thank you for your trust in choosing MODENA products for your household needs. With your satisfaction as our priority, we constantly aim to deliver stylishly designed products equipped with state-of-the-art technology to assist you in your daily activities.

This is your guidebook containing everything you need to know about our product. Please reach us if you need further assistance or other information via our Customer Care or our official website www.MODENA.com.

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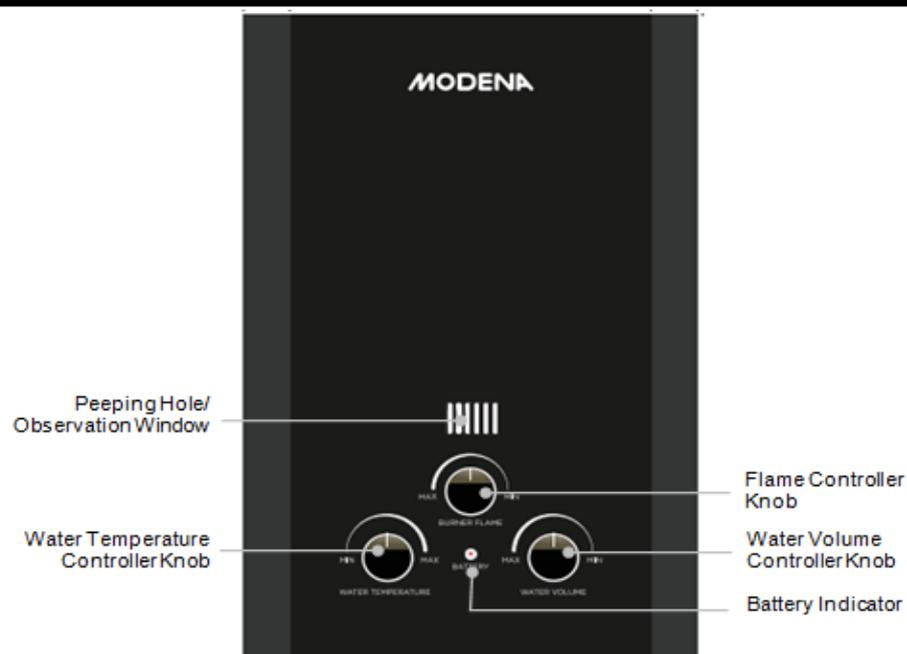
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Part 1: Important Safety Information

When the water heater is operated, gas combustion will consume a large amount of oxygen and exhaust much carbon monoxide. To avoid the great harm for human health or even death caused by excessive carbon monoxide inhalation, MODENA sincerely advise all users to:

- Read this manual book carefully before installing and operating the water heater for the first time.
- Do not install the water heater in the bathroom.
- Install and use the water heater strictly in accordance with the requirements stipulated in these usage instructions.
- Install a smoke exhaust duct to exhaust waste gases outside the room.
- Make sure that the room where the water heater is installed has enough fresh air and well-ventilated.
- Once the outer wrapping and the inner wrappings of the various parts have been removed, check and make sure that the appliance is in perfect condition. If you have any doubts regarding to the quality and the completion of the appliance accessories, do not use the appliance and contact MODENA Call Center.
- The water heater must be installed by qualified technician.
- In the case of a failure and/or malfunction, all repairs or settings must be done with maximum care and attention by qualified technicians. For this reason, we recommend you to contact MODENA Call Center, explaining the trouble in details and mention the name of the model.
- The packaging materials used (such as cardboard, bags, polystyrene foam, nails, etc.) must not be left anywhere in easy reach for children because the packaging materials could potentially cause a hazard. To safeguard the environment, all packaging materials are environment-friendly and recyclable.
- If there any questions about the operation procedure and the safety instruction, contact MODENA Call Center.

Part 2: Name of Parts



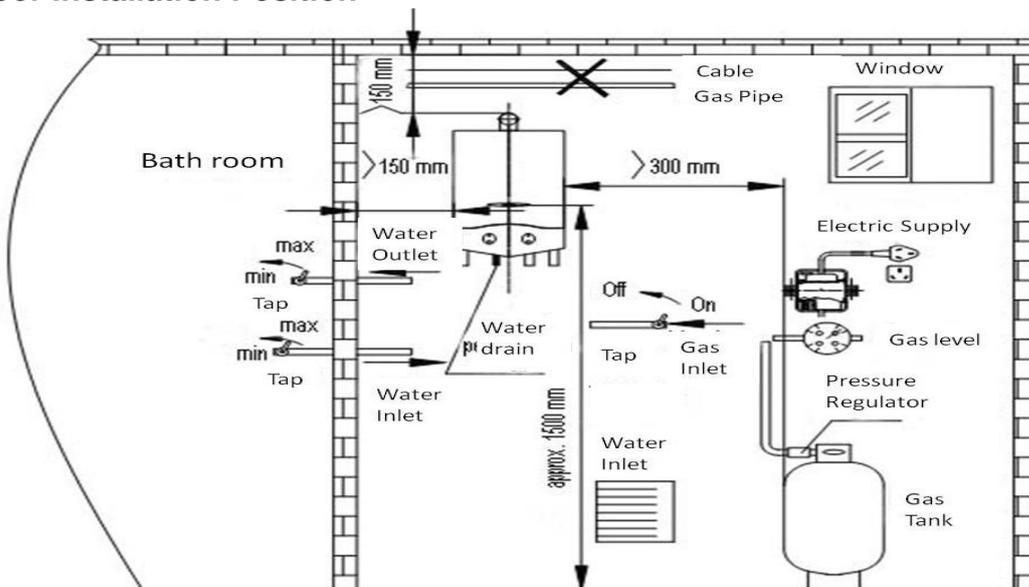
* Features depend on the type of product.

Part 3: Installation

Installation Requirement

1. Do not install the water heater in a bedroom, basement, bathroom, or any room with poor ventilation. In order to keep the room for installation ventilated well, an air-intake (inlet) hole should be made in the lower area of the room, and the area around the hole should not be less than 100 cm².
2. The flame observation window of the water heater should be located in a position it can be easily viewed (approximately 150 cm above the floor).
3. No cords or electric equipment shall be put above the water heater. The water heater should be kept at least 40 cm away from the electronics horizontally. The water heater should be kept well away from any flammable substance or liquid.
4. Do not install the water heater where adverse winds may blow, causing flame-out or incomplete combustion.

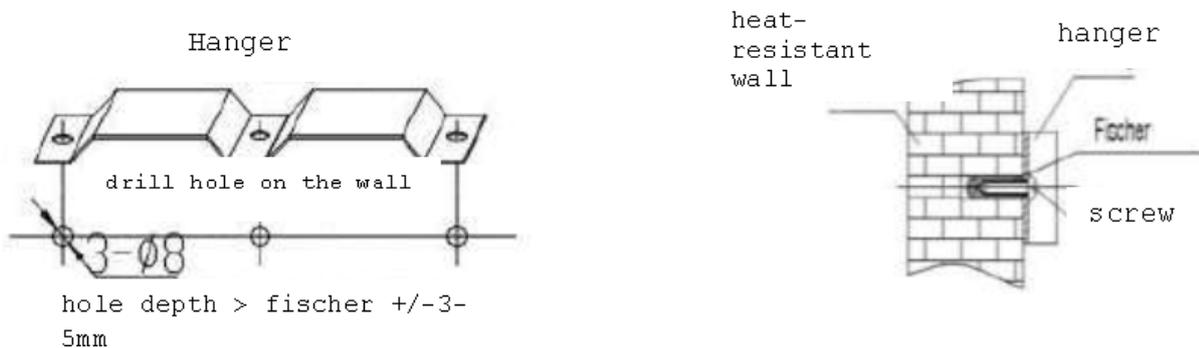
Indoor Installation Position



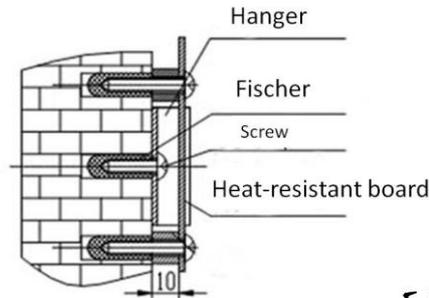
Note:

- The positions of the water inlet, water outlet, and gas pipe must be in accordance with the marks on the water heater body.
- Check carefully after the installation has done; make sure that there is no gas or water leak.
- The maximum length of the rubber hose is 2 meter.
- Cable, hose, and pipe are prohibited to pass the side or the upper of the water heater body.
- The installation of the hanger must be horizontal.

Hanger Installation

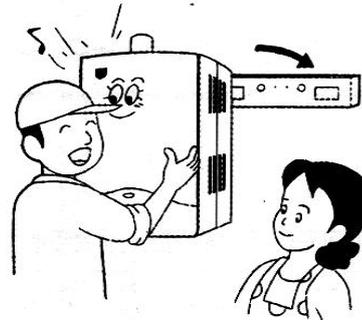


If the wall is not heat-resistant, it is recommended to coat it with a heat-resistant board that is 100 mm bigger than the water heater in every side. For the heat-resistant board, make 10 mm distance from the wall.



Water Heater Hanger

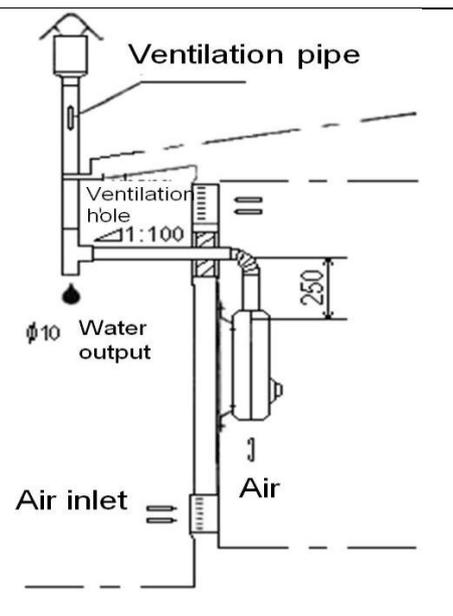
The water heater should be hanged vertically. The standard height of the water heater is adjusted with the parallel position of the flame observation window (peeping hole) to the human eyes.



Ventilation Pipe Installation

The water heater must have ventilation pipe. The installation of the ventilation pipe must be in accordance with follow:

- The height of the ventilation pipe must be in accordance so that it can drained by the smoke out.
- The horizontal part of this ventilation pipe must be less than 3 m, and the pipe must be a bit tilted down ($\pm 1^\circ$), so that the water condensation does not flow back.
- Angle of the ventilation pipe must be 90° , and its quantity should be no more than 3 pieces.
- The inside part of the ventilation pipe, above the hole of the smoke exhaust duct from the back must be more than 250 mm.
- The upper part of the ventilation pipe must be accompanied with the windproof cover to prevent wind and rain. The distance may not be more than 600 mm from the surrounding buildings.
- Do not install the ventilation pipe in the air replacement part or smoke ventilation track. Make sure there is no air leak at the pipe connections, fasten it with strong screws.



How to Install the Ventilation

- The air hole must be on the good ventilating position and 1/2 under the height of the room.
- The pipe hole must be made outside and close from the upper part of the room, far from the ventilation pipe.

Thermal Load (KW)	Minimum area for the air hole and pipe hole (cm ³)
< 12	100
12 – 16	130
16 - 20	160
20 - 26	200

Gas Pipe Installation

The diameter of the threaded bolt that connects the gas inlet pipe to the water heater is G1/2.

- **Connecting to the LPG Cylinder**

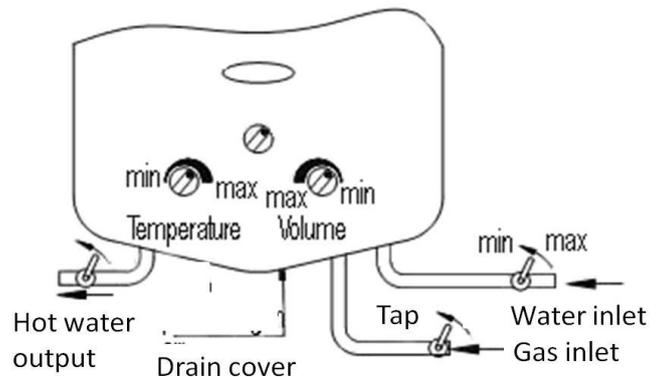
- Install the connector in the package to the gas inlet valve on the water heater (make sure the seal has been installed). Then, connect it to the hose for gas (rubber hose) with a diameter of 9.5 mm as shown in the picture.
- Make sure to use the gas regulator with the right pressure (the exact gas pressure standard is 2800 Pa for LPG, 2000 Pa for natural gas).

- **Connecting to the gas pipe**

- It must use the gas hose or standard metal pipe.
- Gas valve must be installed at the gas inlet pipe.

Valve Installation

Valve must be installed at the gas inlet pipe, water inlet pipe, and water outlet pipe. After the installation, checking must be done to make sure that there is no gas or water leak.



Part 4: How to use

Preparation

- Insert 2 pieces of battery. Make sure the positive and negative poles of the battery are well-installed.
- Open the gas and water inlet valves.

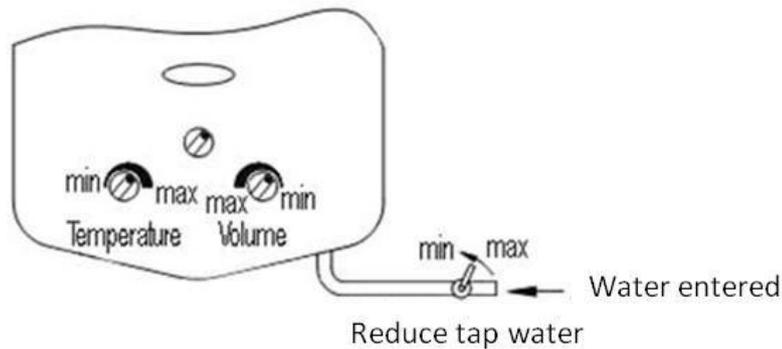
Turning On the Water Heater

When the water pressure is above 0.015 MPa, the water heater will be turned on automatically if the hot water valve is opened. For the water heater that is just installed, the gas pipe perhaps is filled with air and cannot be turned on at the first time. Repeat the *on* and *off* process to throw the air out until the water heater turns on.

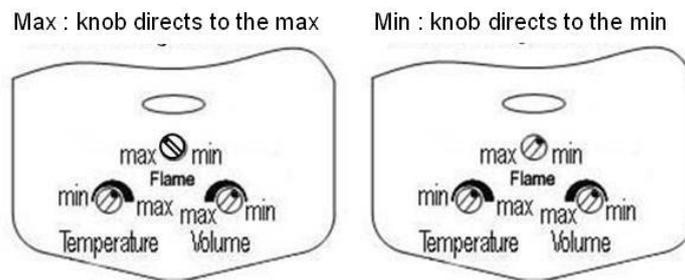
Temperature Control

- Adjust the water and gas controller knobs until the desired hot water temperature is reached.
- If the water inlet valve is installed, cold water valve may not be rotated excessively, to prevent the reduction of the pressure (as a cause of the pipe and the valve diameters difference) that affects the normal operation of the water heater.

3. At certain places, the water pressure maybe too strong and thus the water cannot be heated. In this case, please turn the water inlet valve down (as shown in the illustration picture below).



Flame can be adjusted by turning the flame controller knob to the 'max' or 'min' position (refer to the illustration picture below).



Turning Off the Water Heater

To turn the water heater off, switch off the hot water outlet valve or the water inlet valve. Then, the flame will automatically extinguish, and the water heater will return to stand-by mode.

Note: The water heater cannot be used continuously for a long time. It will automatically turn off after 20 minutes continuous operation to prevent the accidental carbon monoxide poisoning due to inadvertent or accidental long period use.

Part 5: Maintenance

- This gas instant water heater must be checked by professionals every 6-12 months, other things that need to be checked are in the following bellow :
 1. Seal of the gas and water track system.
 2. Clean the filter at the edge of the water supply line to prevent congestion.
 3. Functions of all the operating parts.
 4. Burner of the flame.
 5. Carbon crust cleaning for the heat exchanger.
 6. Air loading and releasing system inside of the room where the water heater is installed.
 7. Gas pressure reducer.
- Must be checked by professional:
 1. Flexibility of the water and gas piping connection.
 2. Clean the carbon accumulation on the buckled part of the heat exchanger.
 3. Apply the lubricants to the gas valve and on its middle part.

4. The disturbing carbon accumulation and oxidation layer.

- Maintenance of the water heater by the user:

1. Clean off the dirt and dust accumulation on the surface of the water heater with the cloth regularly. Do not use that chemical that can change the color of the surface.
2. Clean off the dust and the carbon accumulation inside of the ventilation pipe and the heat exchange regularly for making sure the smoke track flow smoothly.

Note: Remove the ventilation pipe; clean the heat exchanger part with a soft brush. During the process, do not let the dirt and dust enter through the fire hole of the burner and also from the part of electric tools. Do not eliminate or damage the tools. When re-install the ventilation pipe after cleaning, make sure to fasten all part of the connector.

Part 6: Troubleshooting

Problem	Possible Cause	Recommended Action
Over-high water pressure.	If the water pressure exceeds 0.8 MPa, the water outlet valve will release the water and lower the water pressure.	Increase the limit of the valve pressure in accordance with the local water supply pressure.
Automatically shut off after 20 minutes of continuous operation.	After it has been used for 20 minutes, the water heater will shut off automatically.	Turn on the water heater again after 5 seconds or more.
Over-low water pressure.	If the water pressure is under 0.01 MPa, the water heater cannot be turned on.	Use the water heater after the water pressure is higher.
Low battery.	The battery power will reduce after some time of use, so that the water heater cannot be turned on.	Change the battery.
Excessive heat protection.	The water heater will turn off automatically when the temperature is above 77 °C.	Turn on the water heater again after the water becomes cold.

Part 7: Specification

Model	GI 0631 L
Type	Gas Instant Water Heater
Color	Black
Installation	Vertical
Heat Source	LPG
Water Volume Controller	Yes
Gas Volume Controller	Yes
Flame Controller	Yes

Low Water Pressure	Yes
Flame Off Safety	Yes
Automatic Shut-off	Yes
Overpressure Safety	Yes
Thermostat	Yes
Water Flow Rate	6 L/min
Gas Input	1 kg/h
Water Pressure	0.01 - 0.8 MPa
Water Pipe Diameter	0.5 Inch
Maximum Temperature	75°C
Product Dimension	300 x 150 x 440mm
Product Weight	5 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.

