

Instruction Manual

Features

- Large display multifunction wired remote controller
- Mobile APP control
- Bathtub Filling Alarm
- Wide range of temperatures setting (Max: 60°C)
- Diagnostic error code display
- Constant hot water temperature
- Low start up water pressure
- Microcomputer controlled for precise water temperature
- Self-safety check before operation
- Weather proof for outdoor model
- 4 stages burners control for wider range of temperature control

Technical Specifications

Model : MA-20WOD

Type of gas : Town gas (G110)
Gas pressure : 8mbar - 20mbar

Max gas consumption : 40 kW Hot water outilet +25°c rise : 20L/min Temperrature range (°c) : 36 - 60°C

Efficiency : ≥ 85% Min. Operating water pressure : 0.2bar

Max.Operating water pressure : 8bar

Min flow rate : 2.5L/min

Water pipe : G1/2 (inlet)

: G1/2 (outlet)

Gas inlet : G3/4 Exhaust pipe : NA

Power supply : AC 220 - 240V 50Hz-60Hz

: DC 12V for Remote controller

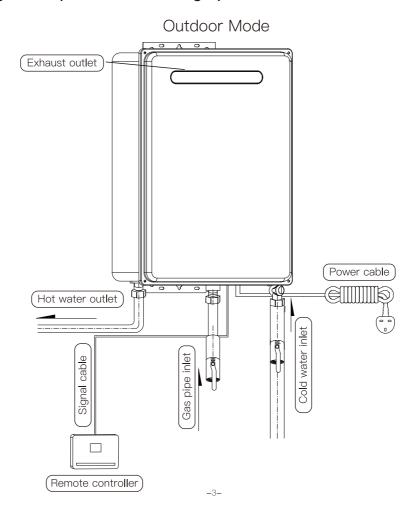
Rated power : 35W (water heater)

Power cable : 1.3 m

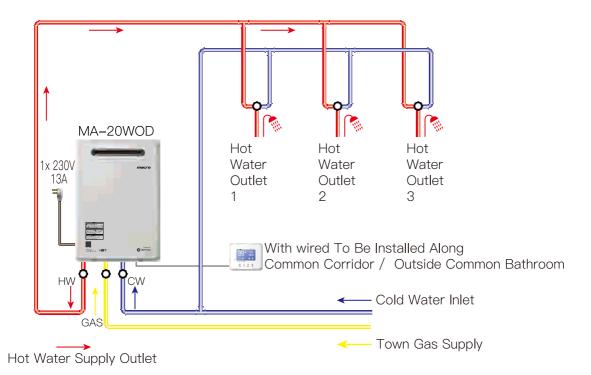
Weight : 16 kg / 17.5 kg

External dimension : H630 x W435 x D155mm

1. Main diagram of preheat circulating system

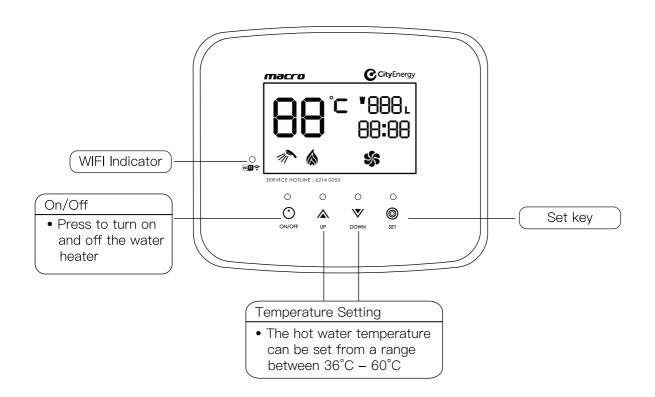


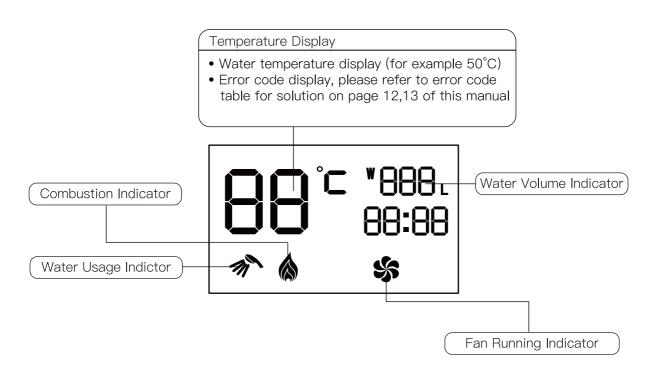
2. Installation



- Hot water return pipe after serving all hot water outlets (Max: 80m)
- Return line start point: hot water return point must be after the furthest hot water draw off point

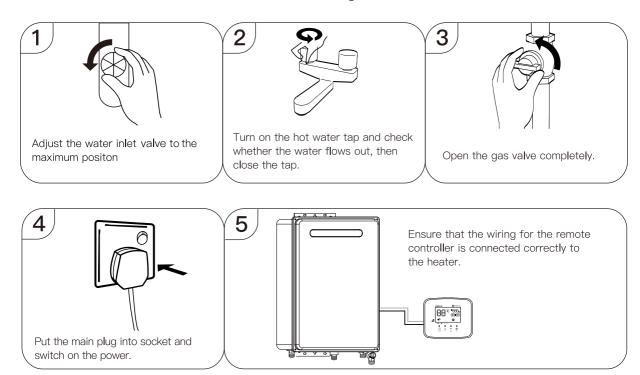
3. Wired Controller





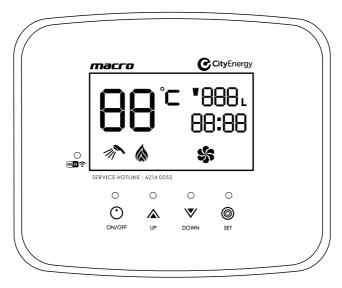
4. Prepration before using the heater

Please follow the instructions shown below when using the heater for the first time.



5. Operating the water heater

To use the water heater, press power button on the remote controller. The LED display screen will show the preset temperature, followed by the actual output water temperature.



When the hot water tap is turned on, the burner will automatically ignite, producing hot water supply. When turning on the water heater for the first time, it may be necessary to turn on and off the hot water tap a few times to ignite the heater due to air in the gas pipe. If hot water tap is not turned on completely, the water heater may also not ignite.



6. Precaution

A. Avoid scalding

The air exhaust pipe and surrounding parts are hot when the water heater is in operation or immediately after operation. Please do not touch them. Before every use, test the water temperature on a small part of your hand first. To prevent scalding, do not spray water from the heater onto body or head immediately when using the heater.



B. Managing Abnormal Operations

Turn off gas valve and water inlet valve immediately if one of the following phenomena occurs :

a. Gas odor b. Abnormal burning sound c. Water leakage

Refer to the "troubleshooting" chart in the manual and take the necessary remedial action. If the problem still persists, notify the appointed authorized distributor, or after sales service center for assistance



C. Inflammable materials & Ventilation

Ensure that no inflammable materials such as gasoline and benzene are placed near the water heater. The heater must be well ventilated must not be concealed. Do not store anything next to the heater.



D. Do not open up the water heater

Do not dismantle or open up the water heater as it may cause electric shock. Dismantling or opening of the water heater should be left to qualified and authorized technicians .

E. Keeping the Water Heater Clean

When cleaning the water heater, do not use fabric or sponge with alcoholic or abrasive or acidic chemicals.

F. Supervising Children Using the Heater

To prevent children from getting scalded, they have to be supervised by adults at all times when using the heater. Always test the hot water temperature before showering onto the body.

7. Troubleshooting

Phenomena stated below are not faulty:

| Phenomena | Reasons and Solutions | | |
|---|--|--|--|
| It takes a while before hot water flows out from the heater after turning on the hot water tap. | When the hot water tap is turned on, the system will first drain out the cold water remaining in the pipe between the heater and the hot water tap. To solve this problem activate the preheat function before using the water heater. | | |
| No hot water is generated even when the hot water tap is turned on | The flame in the water heater may not be ignited as the hot water tap is not sufficiently turned on to the maximum before adjustment. | | |
| Difficult to ignite when using for the first time | The air in the gas pipe needs to be discharged before the heater could be ignited and this could be resolved by tuning on and off the hot water tap repeatedly for a few times. | | |
| Fan remains working for a short moment after turning off the hot water tap | Fan is designed with time delay function for exhausting waste fume from the combustion chamber. | | |
| Water flows out from the relief valve | The water heater system relieves high water temperature pressure by discharging water through relief valve to normalize the pressure in the heat exchanger. | | |

8. Error code

LED display screen may flash the error code to identify the nature of the fault. The possible solutions to the respective faults are shown in the table below:

| Error Code | Fault type | Dealing approach | | |
|------------|--|--|--|--|
| E0 | Misfire | Ensure the gas valve turned on, turn off the water tap and then restart the heater. | | |
| E1 | Fail to ignite | Ensure the gas valve turned on. Turn off the water tap and then restart the heater. | | |
| E2 | Fail motor fault | Turn off the water tap and restart the heater. if fault still occurs, call the service center. | | |
| E3 | Dry burning or overheating in the heat exchanger | Turn off the tap and restart the heater. | | |
| E4 | Temperature sensor fault | Call the service center. | | |
| E5 | Temperature of hot water flowout is too high | Turn off the water tap and restart the heater. | | |

| E6 | Improper combustion | Turn off the water tap and restart the heater. |
|----|-------------------------------|--|
| E8 | Abnormal air pressure | Turn off the water tap and turn on again. |
| F3 | Inlet temperature probe fault | Turn off the water tap and turn on again. |
| En | Prolong usage of the heater | Turn off the water tap and heater, and restart it. |



Swee Huat Heng Engrg Pte Ltd Service Hotline: 6214 0055