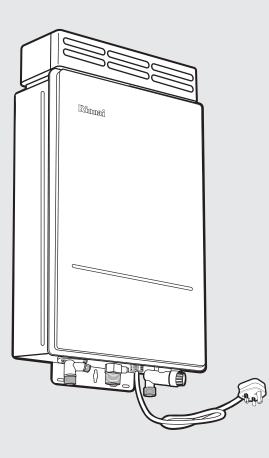
Rinnai®

DOMESTIC GAS WATER HEATER

Instruction Manual



Thank you for choosing Rinnai

- Please read this manual carefully & install it as specified.
- Be sure to ask licenced professional to perform installation.

Model Name REU-1215W-RS REU-2024W-RS

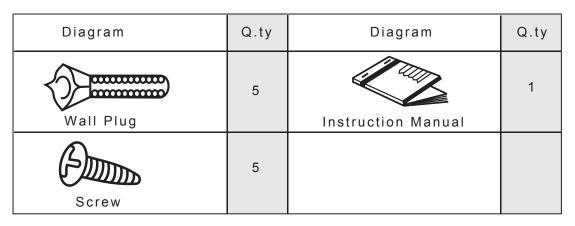
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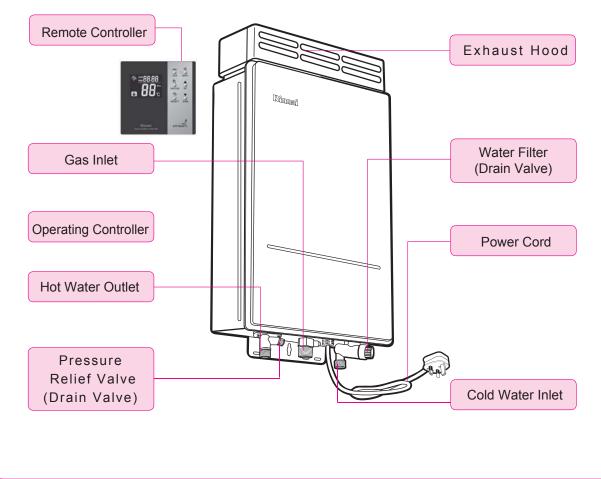
Dimensions & Product Specification.....28

COMPONENTS & PARTS



- After unpacking the appliance check for damage, if the heater is damaged or appears to have any defects contact your supplier immediately.
- DO NOT install a damaged appliance before checking with your supplier.
- Remove the accessories pack and the heater from the carton and check that all the parts are included.



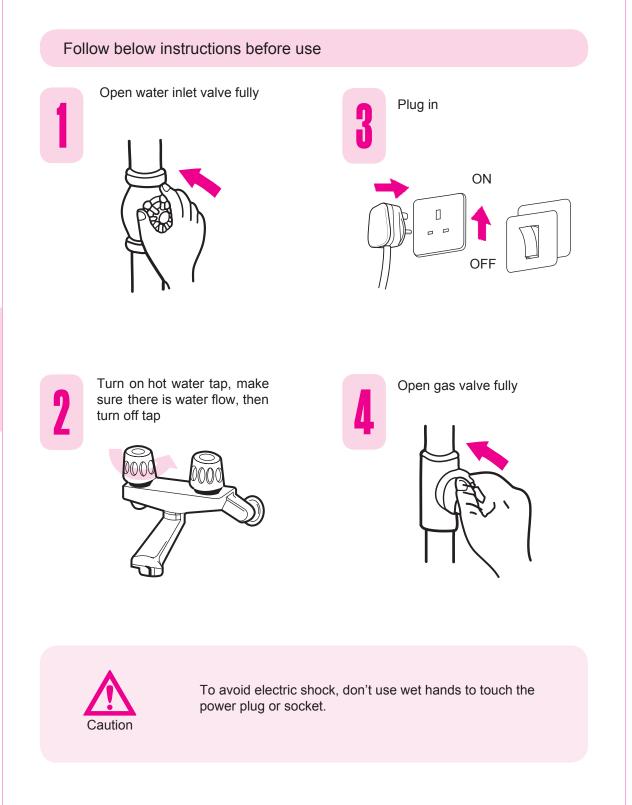


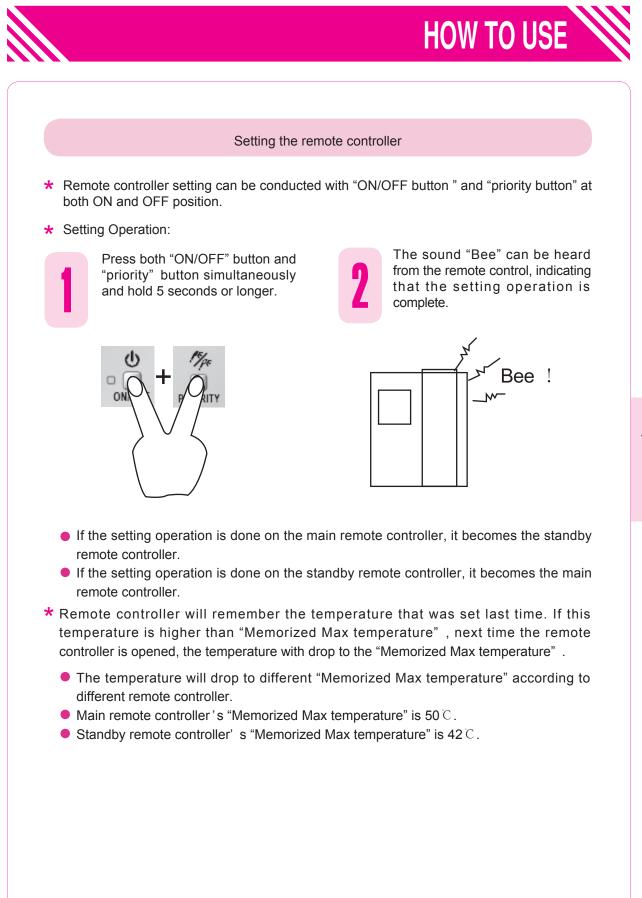
1

Function



FIRST TIME USE

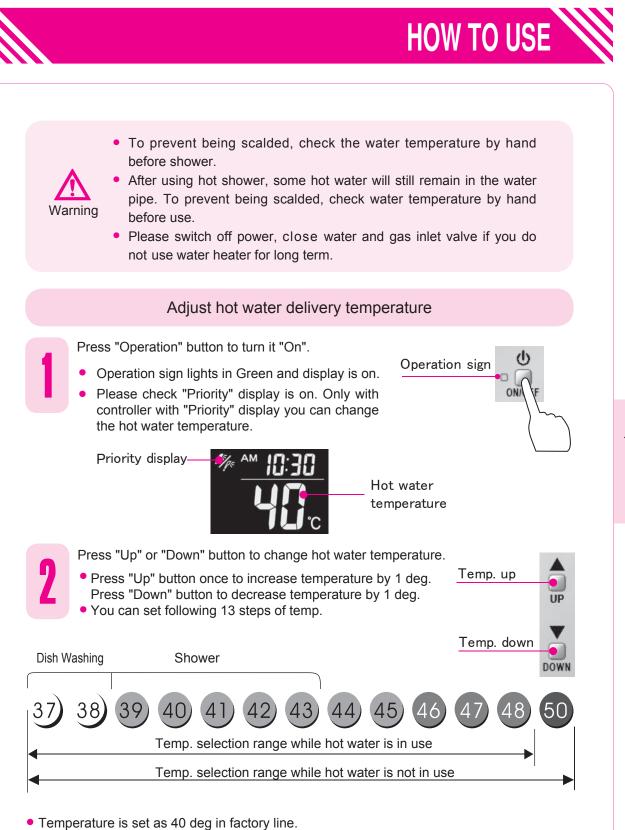




Operation



Operation



- While hot water is delivering you cannot increase temperature more than 48 deg.
- Set temperature is recorded in controller even when operation switch is "Off". However, sub controller cannot memorize temperature more than 42 deg.

HOW TO USE

Deliver hot water with opening hot water tap.

• During hot water delivery display shows "Combustion" display.





Combustion display



- The actual water temperature varies depending on season and length of piping. Please take displayed temperature as rough indication.
- With small amount of water delivery, "Combustion" display can disappear and water become cold.
- Notice
- With low set hot water temperature and with high water inlet temperature the actual delivered hot water can be hotter than set temperature.

How to use "Priority" button

When more than 1 remote controllers are installed, you can change the temperature by the controller only with "Priority" display. This is for avoiding injury such as burn.

- Press "Priority" button when hot water is not in use.
- "Priority" display lights on display of the controller which allows you to change hot water temperature.

Priority display 🏼 🍂 🗛

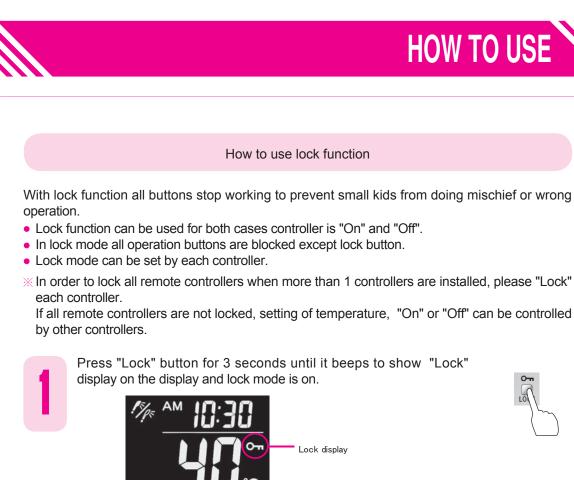




- When more than 1 controllers are installed, each of controllers remembers set temperature when they were once "Priority". When priority is switched, the set temperature of prioritized controller becomes the hot water delivery temperature. However, sub remote controller doesn't remember temperature more than 42 deg.
- × When you install only one controller "Priority" display remains on.
- When the controller is switched "On" from "Off" the controller is prioritized and shows "Priority" display.



• To prevent burn, do not change the priority setting when you use showering.







Press "Lock" button again for 3 seconds to beep and "Lock" display disappears and lock mode becomes off.

 ${\sf Press}\ {\rm ``Function''}\ {\sf button}\ {\sf when}\ {\sf remote}\ {\sf controller}\ {\sf is}\ {\rm ''On''}\ {\sf ,}\ {\sf you}\ {\sf can}\ {\sf set}\ {\sf various}\ {\sf functions}.$ Every time you press "Function" button to change display as follow.

➡ Beep ON/OFF — Saving mode Time display Original display (Function No.1) (Function No.2) (Function No.3)

Save electricity of display (Saving mode)

This is a function of saving electricity of remote controller. Once set time passes, display goes off automatically and only operation sign (Green) lights.

• Saving mode can be set for each remote controller.

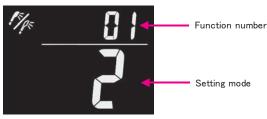
•Use hot water or press any button to light up display again.

X Display doesn't go off without using any hot water. Please use hot water at least once.

HOW TO USE

Press "Function" button once when remote controller is "On" .

• Display shows as below.



FUNC



Press "Up" or "Down" button to change to preferable mode.Saving mode 2 is preset in the factory.

Mode	Brightness	Light off time
1	Dark	After 10 min
2	Bright	After 25 min
OFF	Bright	Keep brighting



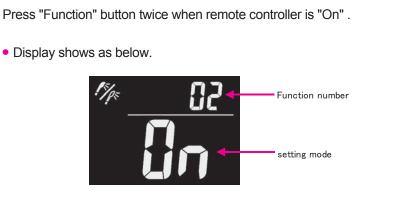


Press "Function" button 3 times to go back to original display.

 Unless pressing "Function" button after 1 minutes it goes back to the original display automatically.

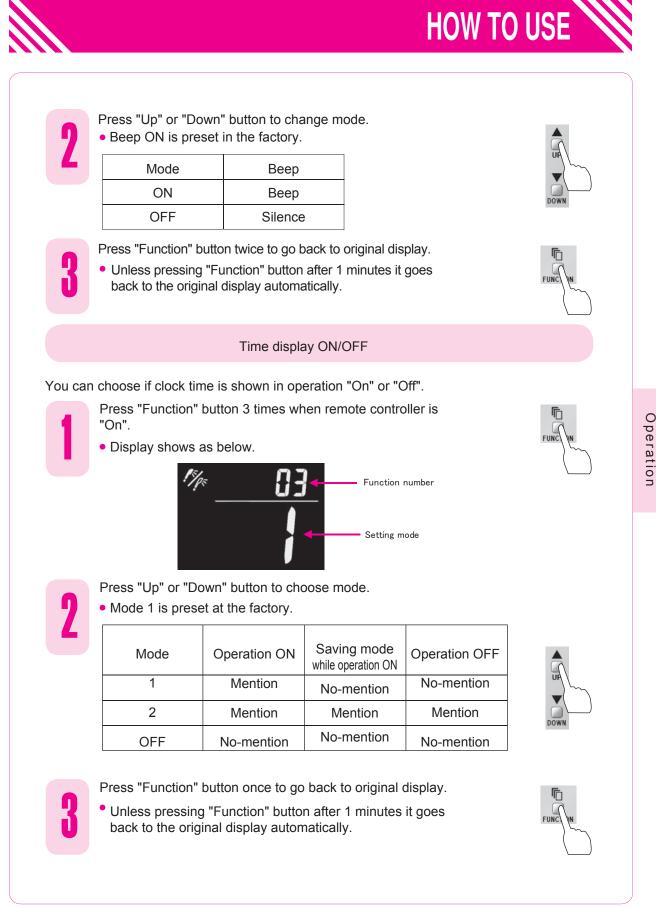
Beep ON/OFF

Use when you want to turn off bleep.



9









A

Outdoor water heater must not be installed indoor. If the unit is installed indoor, poor ventilation will cause incomplete combustion which leads to oxygen deficiency and CO toxication.



Outdoor water heater must not be installed indoor.

Check and clean exhaust outlet

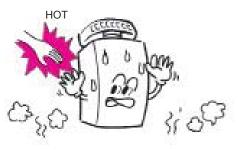


Check and clean Exhaust outlet regularly to prevent from blocking.





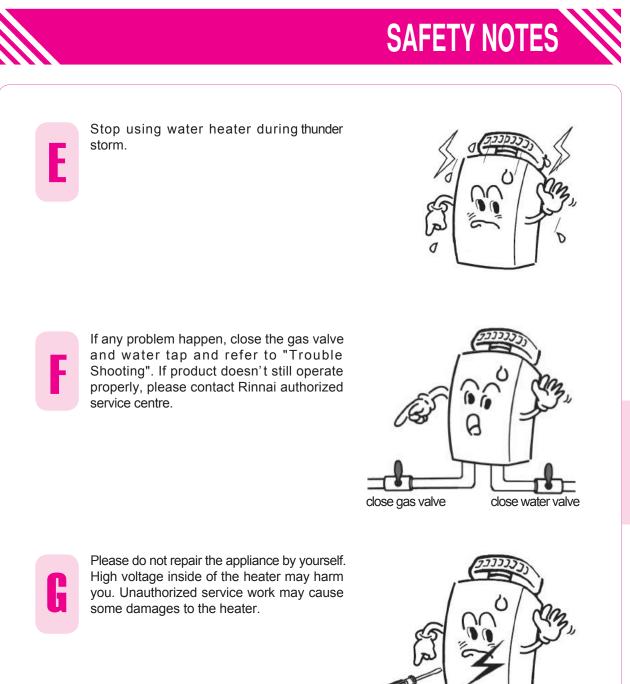
To prevent being scalded, do not touch the Exhaust hood or other parts after used.



D

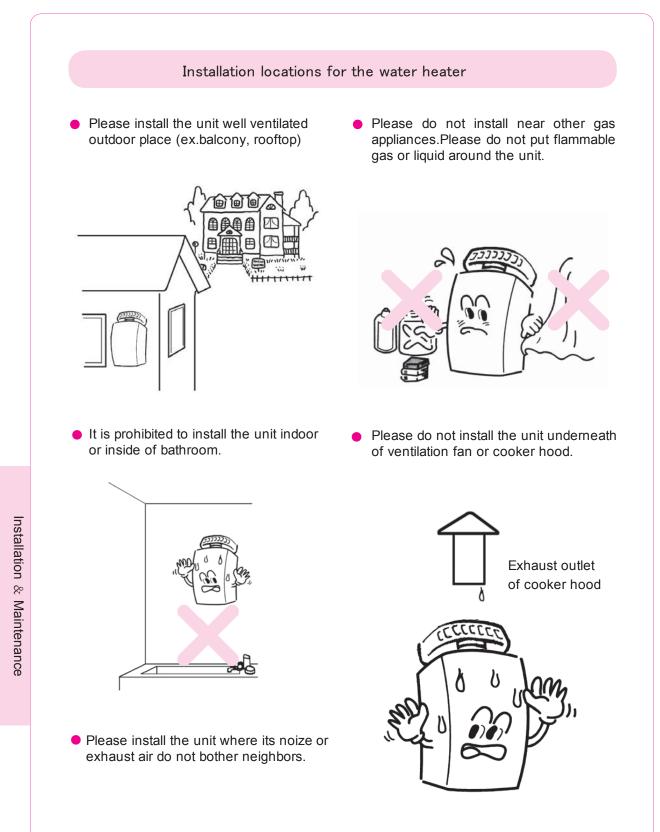
Inflammable materials or chemicals must be removed from the surrounding of the unit.

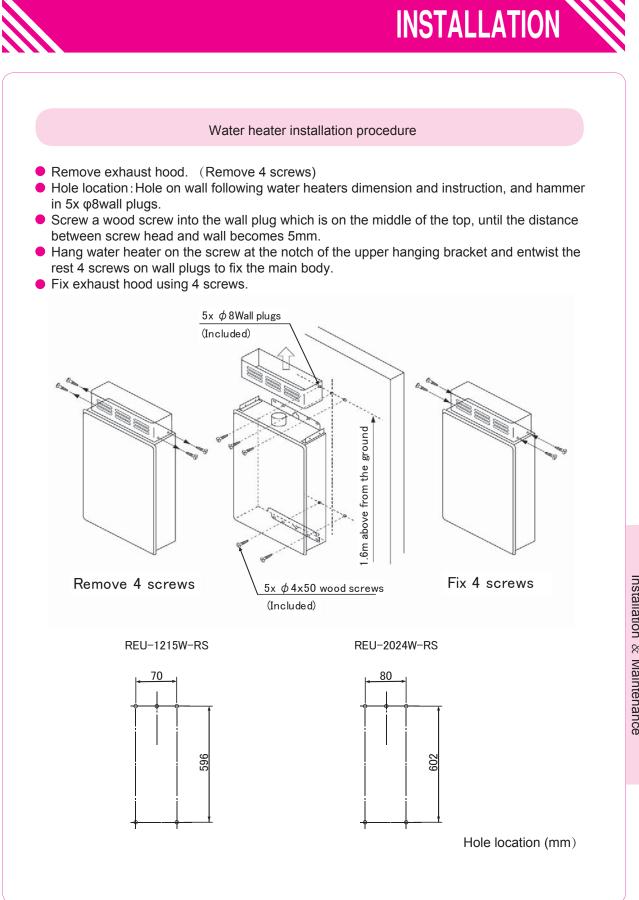


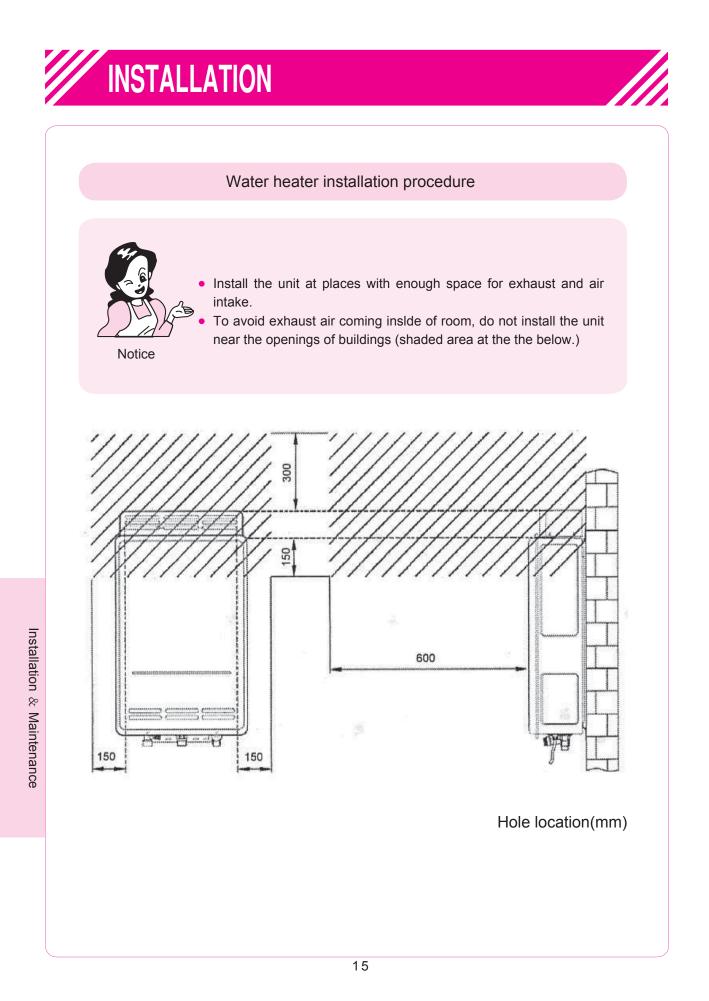


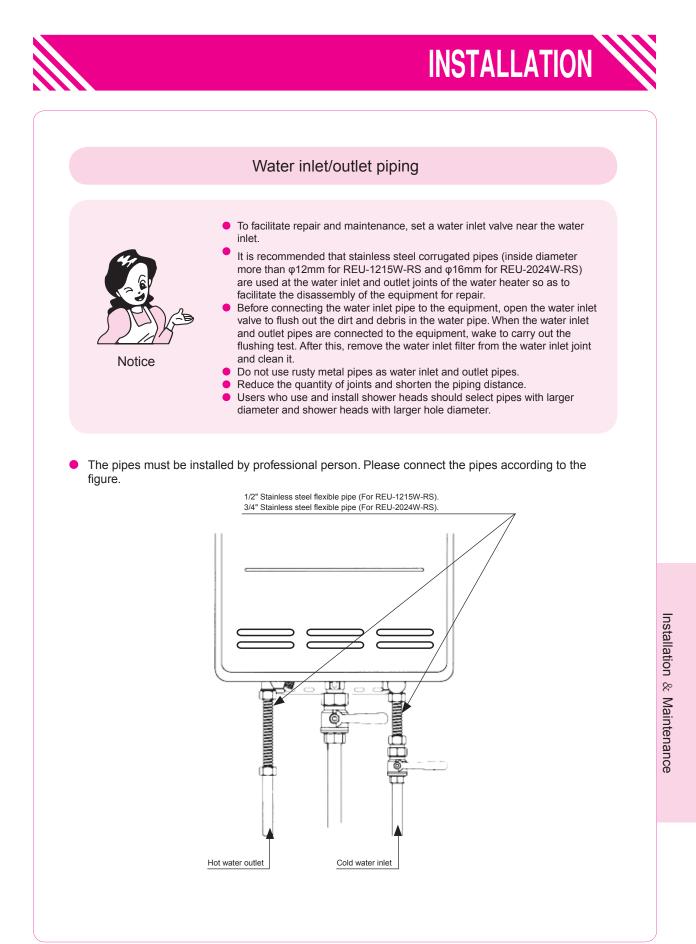






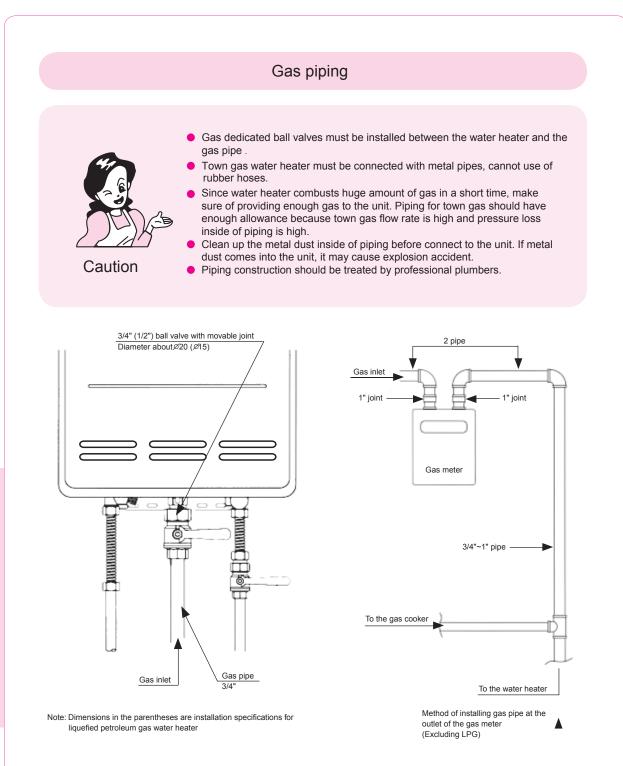










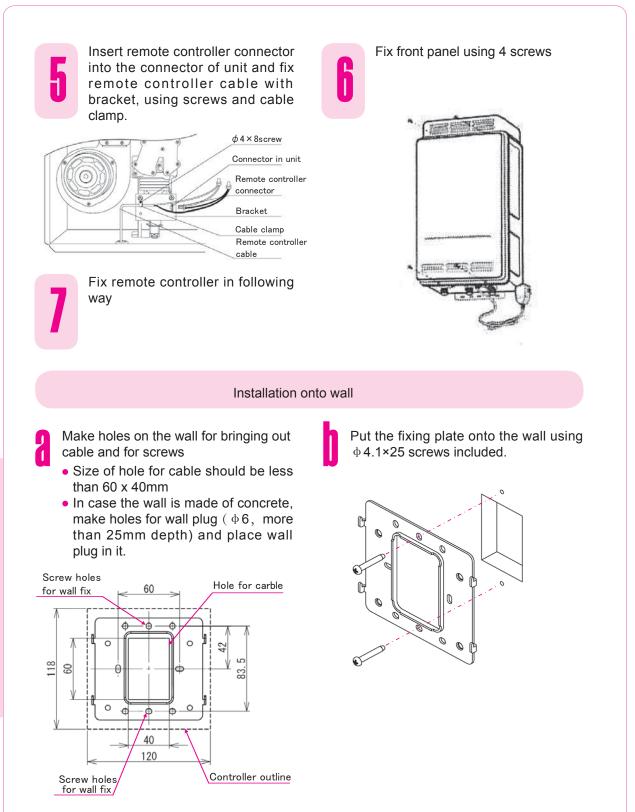


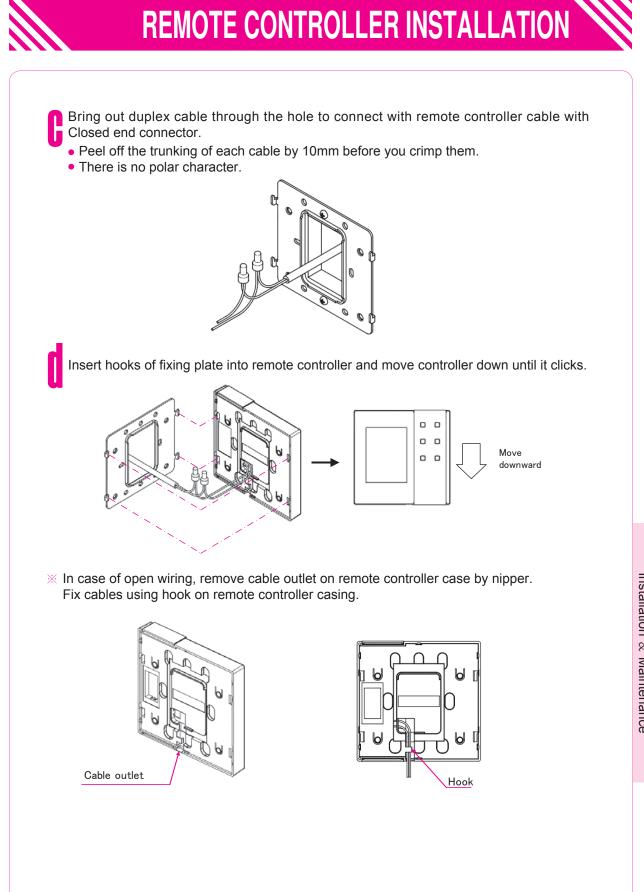


REMOTE CONTROLLER INSTALLATION



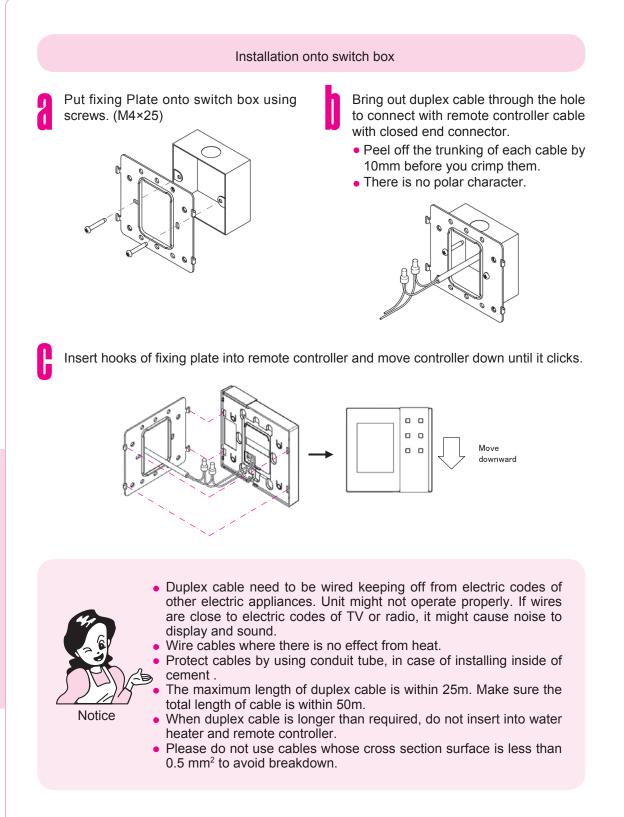
REMOTE CONTROLLER INSTALLATION

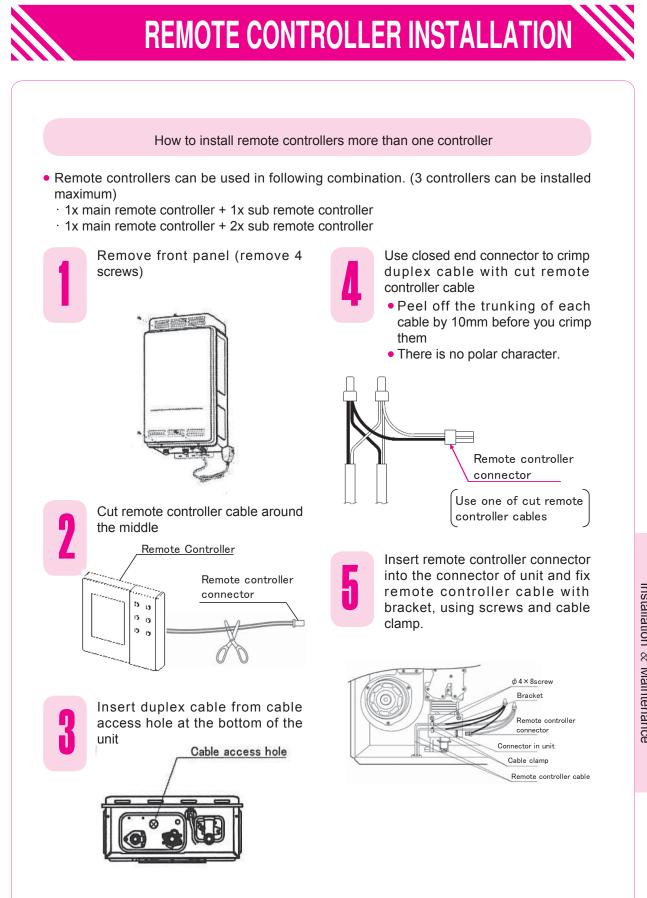




Installation & Maintenance

REMOTE CONTROLLER INSTALLATION





REMOTE CONTROLLER INSTALLATION Fix front panel using 4 screws Refer to p15 \sim p18 to install each controller Connect remote controller and duplex cable as below Connect 3 remote controllers Connect 2 remote controllers Main remote Sub remote Main remote Sub remote controller1 controller controller controller Sub remote controller2 Part A Connection1 Sub remote Main remote X Connect Part A as below. controller controller1 Closed end connector Remote controller Sub remote controller2 Part A Connection2

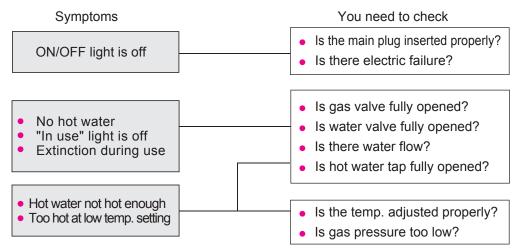




Following conditions are not troubles

Symptoms	Causes & Solutions	
Too small volume of hot water becomes cold water	When hot water volume is set too low, burners shut down and water becomes cold, do not set hot water volume too low.	
Hot water doesn't come out	When incoming water temp. is low and hot water tap is fully opened, it could exceed maximum heating capacity of the heater.	
Higher hot water comes out in low setting	When incoming water temp. is high and hot water tap is only slightly opened, hot water temp. will get very high. Turn hot water tap to larger volume.	
Fan rotation noise remains after stop using hot water	Fan rotates for a while after operation in order to make reignition faster.	
Display shows ":" as time	Display shows ":" in energizing after blackout. Please reset the time. (refer to page 5)	

Please check if you face following conditions



 If the product doesn't still operate properly after the above inspections, then disconnect the main plug, insert again to restart the operation. If this doesn't still solve the problem, please contact Rinnai service centre.





Error Codes

In case of failures, heater will stop automatically and an error message will flash on the digital monitor of the operating controller. Turn the hot water tap OFF, then ON again or try switch OFF the power, then ON again.

Error Code	FAULTY	
10	Combustion fan rotation failure	
10	Air supply/Exhaust blockage	
11	Spark failure	
12	Flame failure	
14	Thermal fuse/Over-heating protect device operates	
16	Over boiling	
32	Outgoing water temp sensor failure	
52	Modulation solenoid valve operating circuit failure	
61	Combustion fan failure	
71	Solenoid valve operating circuit failure	
72	Flame rod circuit error	

• If error message is still shown, make sure to close the gas valve. Disconnect plug and contact Rinnai service centre.

 When the screen of the digital monitor of the Operating controller is blank, disconnect the power plug and connect again, press power ON. If there is still no light, please call Rinnai service centre.





- Regular inspection & maintenance is recommended for safe operation
 When maintenance is required, close the gas valve, disconnect the main plug & wait for it to cool down.
- Do not open the front panel.

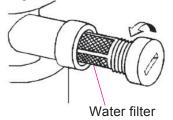
Please take note following items during inspection

- Is there any unusual noise during operation?
- Is there anything wrong with the product appearance?
- Is there any flammable materials close to the product or exhaust outlet?
- There are safety cautions on the front panel of the product. If these cautions are illegible because of oil stain, clean it with cloth. Do not clean it with detergent, thinner etc. Do not remove it.
- In order to ensure safe operation, please take safety inspection every year. Please contact Rinnai service centre about regular inspections.

Maintenance

- If there is oil stain on the surface of the product, clean it with wet cloth. Do not use detergent, thinner, benzine etc.
- If there is dust on the water filter at the water inlet, the hot water amount will be reduced. Please close water inlet valve, remove water inlet water filter and clean it. Especially if there has been any water piping construction works recently near by your place.
- If the exhaust is blocked by dirty matter and the operation is continued, this will cause incomplete combustion. Be sure to keep the exhaust outlet clean.

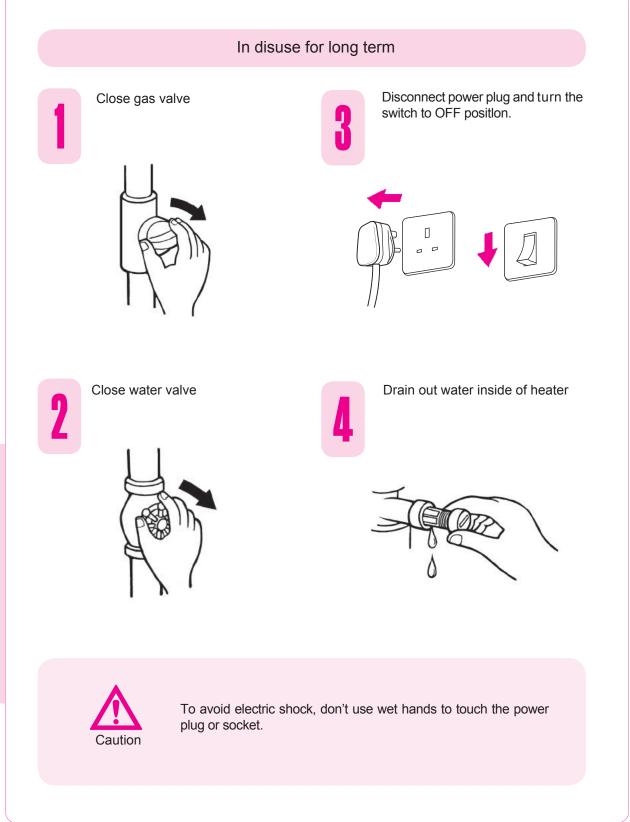
Rotate water filter to the counterclockwise by hands or by inserting a coin into the grave.

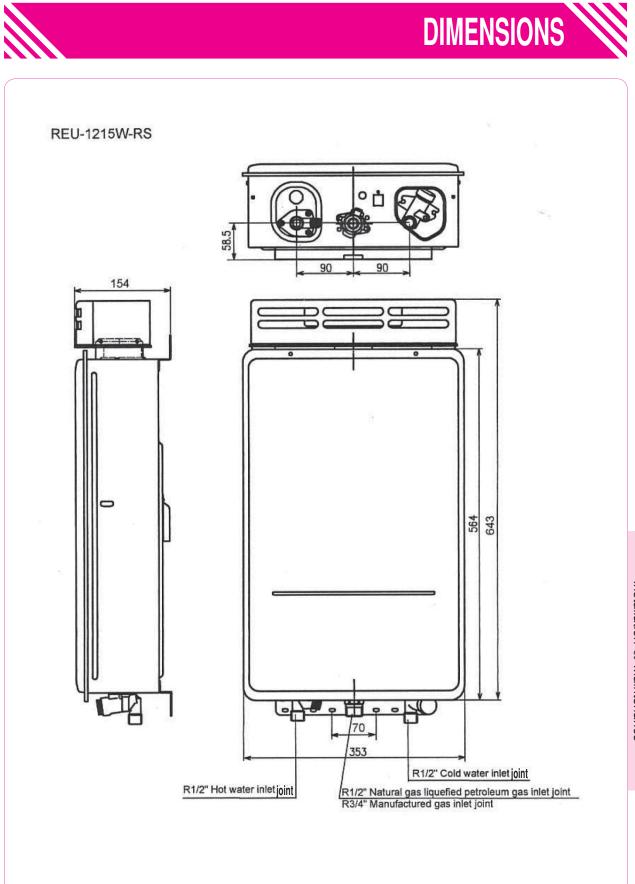




• When carry out the maintenance, make sure to keep the inner parts dry. If not, it will cause product faulty.

INSPECTION & MAINTENANCE

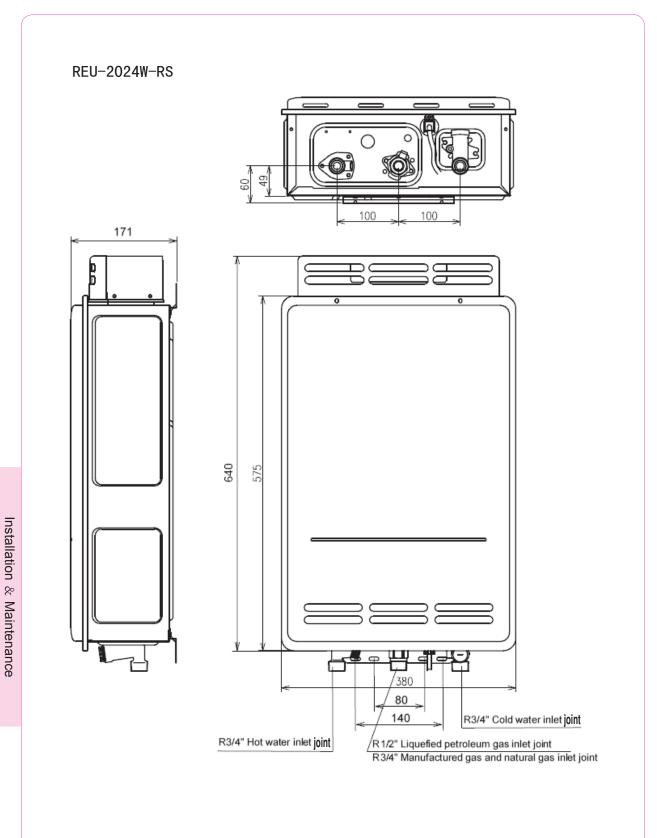




Installation & Maintenance









PRODUCT SPECIFICATION

pliance type	Forced exhaust domestic gas water heater Type B	
lodel name	REU-1215W-RS	REU-2024W-RS
Type of gas	Town Gas (G 110)	
supply pressure	8~20 mbar	
input Qn / Qm	23.5/2.7 kW 38.9/2.9 kW	
ıl output Pn / Pm	20.7/2.4kW(12/1.4L/min ⊿25)	34.9/2.4kW(20/1.4L/min ⊿25)
perature range	37°C~50°C	
rnal dimension	(W)353x(H)643x(D)154(mm)	(W)380x(H)640x(D)171(mm)
Weight	14.8kg	19.2kg
num water flow	2.2L/min (10kPa)	
r pressure (Pw)	10bar	
Gas	R3/4"	
Cold/Hot water	R1/2"	R3/4"
ower supply	AC230V/50Hz	
ic consumption	60W 59W	
mum water flow	15L/min	24L/min
Flame failure	Flame rod	
No water heating	Water flow sensor	
Over temperature	Thermistor (95 $^\circ C$ gas valve shut down)	
HEX. damage	Thermal fuse (150 °C cut off)	
Over water pressure	Pressure relief valve	
Over heating	Bi-metal switch (90℃OFF)	
Over current	Glass fuse (2A)	
	lodel name Type of gas supply pressure input Qn / Qm I output Pn / Pm perature range rnal dimension Weight num water flow r pressure (Pw) Gas Cold/Hot water ower supply ic consumption num water flow Flame failure No water heating Over temperature HEX. damage Over water pressure Over heating	Iodel nameREU-1215W-RSType of gasTown Gasupply pressure8~20input Qn / Qm23.5/2.7 kWI output Pn / Pm20.7/2.4kW(12/1.4L/min ⊿25)perature range37 C ~rnal dimension(W)353x(H)643x(D)154(mm)Weight14.8kgnum water flow2.2L/minr pressure (Pw)10GasR1/2"ower supplyAC230ic consumption60Wnum water flow15L/minFlame failureFlamNo water heatingWater flowOver temperatureThermistor (95°C gaHEX. damageThermal fuse (7Over water pressurePressure inOver water pressurePressure inOver heatingBi-metal swite

Installation & Maintenance



Rinnai Holdings (Pacific) Pte Ltd 61 Ubi Road 1 #02-20 & 21 Oxley Bizhub Singapore 408727 www.rinnai.sg Tel:6748 9011 Fax:6745 9240

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