

TANKLESS GAS WATER HEATER

Owner's Guide

Model : **NER66OD (GQ-2039WS ET US)**

FOR USE IN RESIDENTIAL OR MANUFACTURED HOME APPLICATIONS.



WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.



Low NOx Approved
by SCAQMD
14 ng/J or 20 ppm
(Natural Gas Only)



Thank you for purchasing this Noritz Tankless Gas Water Heater. Before using, please:

Read this manual completely for operation instructions.

To be covered by the Noritz America Corporation Limited Warranty service, see the warranty registration information (See page 32), and then visit the Noritz web site (www.noritz.com/warranty).

Keep this manual included in the warranty registration information (See page 32)

Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54 - latest edition. When applicable, installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280. Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.


NORITZ America Corporation






Important Safety Information-1

To prevent damage to property and injury to the user, the icons shown below will be used to warn of varying levels of danger. Every indication is critical to the safe operation of the water heater and must be understood and observed. Potential dangers from accidents during installation and use are divided into the following four categories. Closely observe these warnings; they are critical to your safety.

■ Icons warning of risk level

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

	DANGER	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
CAUTION		CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

■ Other icons

	Electric Shock.		High Temperature.		Be sure to do.		Ground.		
	Prohibited		No flame.		Don't touch.		Don't disassemble the unit.		Don't touch with a wet hand.

DANGER



Prohibited

Vapors from flammable liquids will explode and catch fire causing death or severe burns.

Do not use or store flammable products such as gasoline, solvents or adhesives in the same room or area near the water heater.

Keep flammable products:

1. Far away from the water heater.
2. In approved containers.
3. Tightly closed.
4. Out of children's reach.

Vapors:

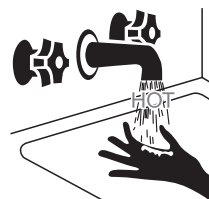
1. Cannot be seen.
2. Vapors are heavier than air.
3. Go a long way on the floor.
4. Can be carried from other rooms to the main burner by air currents.



Prohibited

Hot Water Heater temperatures over 125°F (52°C) can cause severe burns instantly or death from scalding.

Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask professional person.

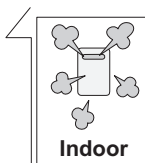




Prohibited

Do Not Install Indoors.

This will cause carbon monoxide poisoning and a potential fire hazard.



Prohibited

Do not allow anyone to change the water temperature while hot water is being used.

To prevent scalding, do not change the water temperature to a higher setting.

WARNING



No flame.

A. This water heater does not have a pilot. It is equipped with an ignition device that automatically lights the burner. Do not try to light the burner by hand.

B. BEFORE OPERATING smell all around the water heater area for evidence of leaking gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS.

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to turn the gas valve knob. Never use tools. If the knob will not turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this water heater if any part has been under water. Immediately call a qualified service technician to inspect the water heater and to replace any damaged parts.



Prohibited

Explosion Hazard ;

If the temperature and pressure relief valve is dripping or leaking, have a qualified service technician replace it. Do not plug or remove the valve.

Failure to follow these instructions can result in fire or explosion, and personal injury or death.



High Temperature.

Check the temperature of the running hot water before entering the shower.

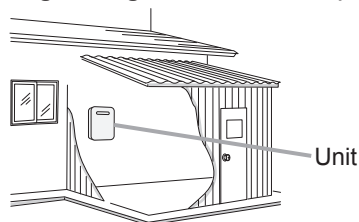


Check the temperature before stepping into the bath tub.



Prohibited

Do not place the exhaust vent terminal in an indoor environment by means of adding walls and ceiling (Do not enclose using corrugated sheets, etc.)



Carbon monoxide poisoning or fire may occur as a result.



Be sure to do.

When a gas leak is noticed:

1. Stop use immediately
2. Close the gas valve



Be sure to do.

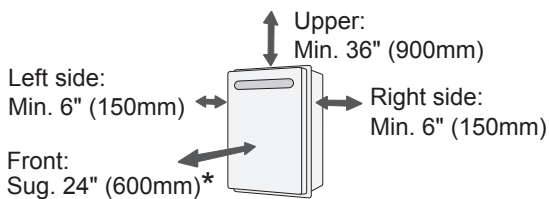
If you detect abnormal combustion or abnormal odors, or during an earthquake, tornado or fire:

1. Turn off the hot water supply
2. Turn off the power to the water heater
3. Turn off gas and water supply valve
4. Call the nearest Noritz agent



Be sure to do.

Leave the proper clearance between the water heater and nearby objects (trees, timber, boxes with flammable materials etc.).



(Continued)

Important Safety Information-2

(Continued)

WARNING



Prohibited

Do not place combustibles such as laundry, newspapers, oils etc. near the heater or the exhaust vent terminal.



Prohibited

Do not use hair spray or spray detergent in the vicinity of the heater.



Prohibited

Do not allow small children to play unsupervised in the bathroom.
Do not allow small children to bath unsupervised.



Prohibited

Carbon Monoxide Poisoning Hazard. Do not install this water heater in a recreational vehicle or on a boat.



Don't touch with a wet hand.



Electric Shock.

Do not touch the power cord with wet hands.



Prohibited

Do not use combustible chemicals such as oil, gasoline, benzene etc. in the near the heater or the exhaust vent terminal.



Be sure to do.

Consult the nearest Noritz agent if the water heater location needs to be changed.



Prohibited

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.



Don't disassemble the unit.

Contact a qualified service technician for any necessary repairs, service or maintenance.



Prohibited

Do not place or use a spray can near the water heater or the exhaust vent terminal.



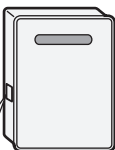
Be sure to do.

Contact Noritz before using with a solar pre-heater.



Be sure to do.

Confirm that the gas and power supply indicated on the rating plate.



Ex. For Natural Gas
(NER660D (GQ-2039WS ET US))

Model/(Modèle) :	NER660D(GQ-2039WS ET US)
Type of Gas/(Type de gaz) :	Natural Gas/(Gaz Naturel)
Input Rating/(Débit calorifique) :	Max.140,000 Btu/h - Min.15,000 Btu/h
Recovery Rating/(Calibre de recouvrement) :	141 Gal/h (534 l/h)
Recovery Rating/(Calibre de recouvrement) :	Min. 4.0 °W.C. - Max.10.5 °W.C.



Be sure to do.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.



Prohibited

If this unit will be installed in a location where hair spray or aerosols will be used, locate the unit in a separate area that is supplied with fresh air from outdoors.

California Proposition 65 lists chemical substances known to the state to cause cancer, birth defects, death, serious illness or other reproductive harm. This product may contain such substances, be their origin from fuel combustion (gas, oil) or components of the product itself.

The gas conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction.

The information in the instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury, or death. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CAUTION



Ground.

Be sure to electrically ground the unit.



Be sure to do.

Keep power cord free of dust.



Prohibited

Do not use the water heater for other than hot water supply, shower and bath.



Prohibited

Do not use a broken or modified power cord. Do not bind, bend or stretch power cords. Do not scratch, modify, or subject them to impact or force.



Be sure to do.

To prevent burns or scalding, turn off the power button and wait until the unit cools before performing maintenance.



Prohibited

Do not turn off the water heater while someone is bathing.



Prohibited

Do not cover the water heater and the exhaust vent terminal, store trash or debris near it, or in any way block the flow of fresh air to the unit.



Prohibited

Do not install in locations where excessive dust or debris will be in the air.



Don't touch.

Do not touch the exhaust vent terminal during or immediately after operation of the water heater.



Important Safety Information-3

CAUTION

Do not drink water that has been inside the unit for an extended period of time. Do not drink the first use of hot water from the unit in the morning.

Clean the filter on the water inlet as frequently as required by the quality of your local water.

Keep the area around the unit clean.

If boxes, weeds, cobwebs, cockroaches etc. are in the vicinity of the unit, damage or fire can result.

Do not install the unit where the exhaust will blow on walls or windows.

If the water supply is in excess of 12 grains per gallon (200 mg/L) of hardness, acidic or otherwise impure, treat the water with approved methods in order to ensure full warranty coverage. (page 23)

Problems resulting from scale formation are not covered by the warranty.

Check ignition during use and extinction after use.

Do not run water through the unit when unit is not on.

When discharging hot water, make sure the unit is ON. If water is run through the unit with the unit OFF, water may condense inside the unit and cause incomplete combustion or damage to the internal electrical components.

For single-handle fixtures, you'd turn the handle to the left.

This unit is only approved for installation up to 4500 ft. (1350m) above sea level.

For installations at higher elevations, contact Noritz America for Instructions.

Do not disassemble the remote controller.

Do not use benzene, oil or fat detergents to clean the remote controller.

This may cause deformation.

Do not get the remote controller wet.

Although it is water resistant, too much water can cause damage.

Do not splash water on the remote controller. Do not expose the remote controller to steam.

Do not locate the remote controller near stoves or ovens, this may cause damage or failure.

Preventing damage from freezing (page 19)

Damage can occur from frozen water within the device and pipes even in warm environments. Be sure to read below for appropriate measures. Repairs for damage caused by freezing are not covered by the warranty.

Take necessary measures to prevent freezing of water and leakage of gas when leaving the unit unused for long periods of time. (page 20)

If it is snowing, check the exhaust vent terminal for blockage.

Do not use parts other than those specified for this unit.

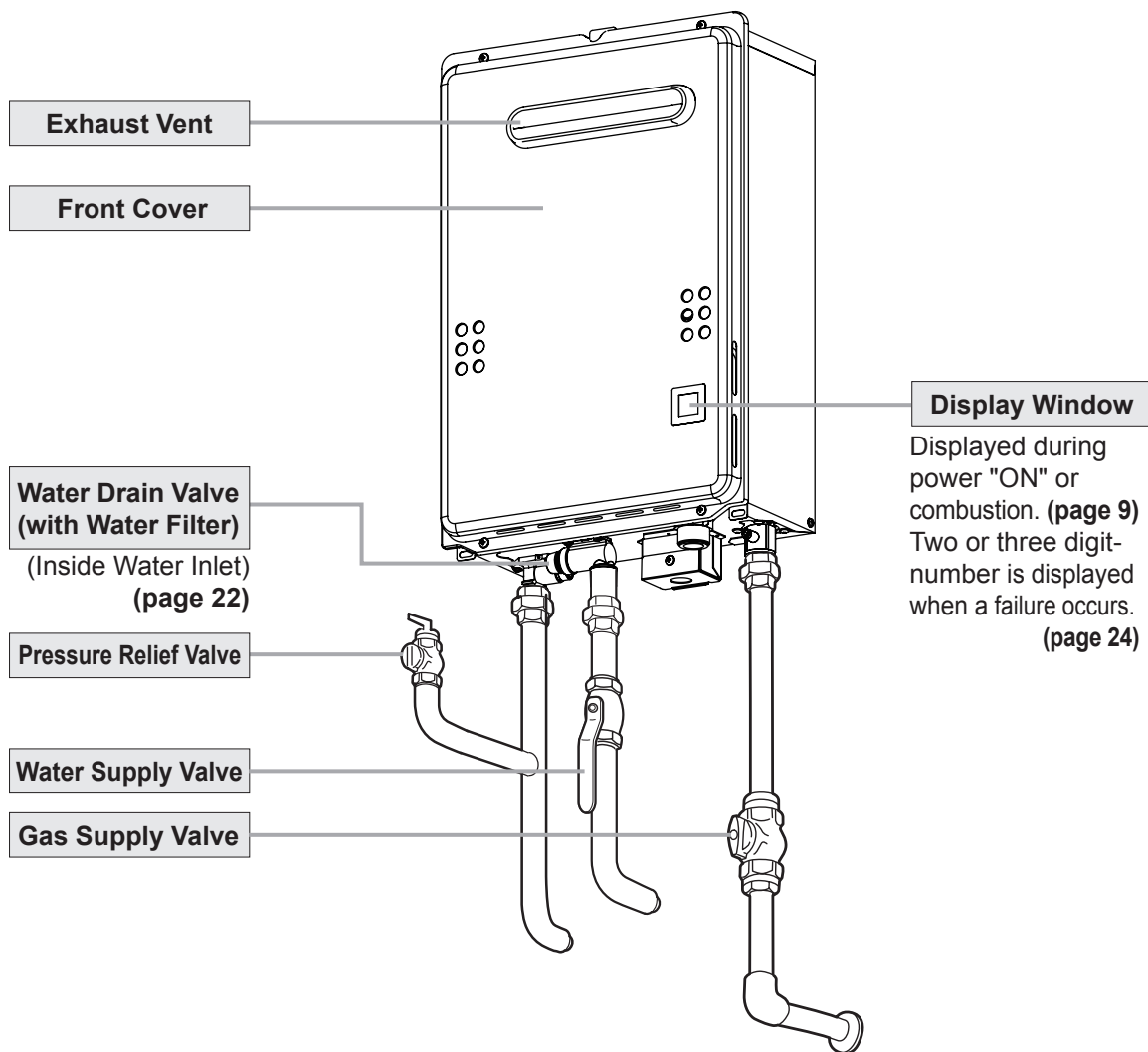
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Unit Components

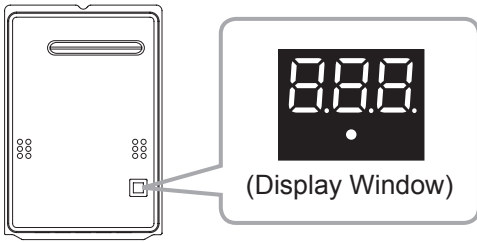
Unit

Outdoor Wall Mounted, Power Vented Model

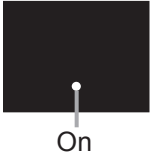


* The above illustration shows an example of installation.
The exact installation configuration may be slightly different.

Display Window



The display window allows you to view the status of unit or error codes.



When the gas burner is on.



When the gas burner is on, set temperature's is displayed for one minute.

When unit is initially plugged into power, set temperature's is displayed for approx. three minutes.



When hot water flows.

(When the gas burner is off, and cold water flows.)

After one minute passed from turn on hot water, the outside edge of the three digit display will rotate in a circular pattern.



If there is a problem with the unit, a numerical error code will flash. (page 24)

(Ex.: error code 11)

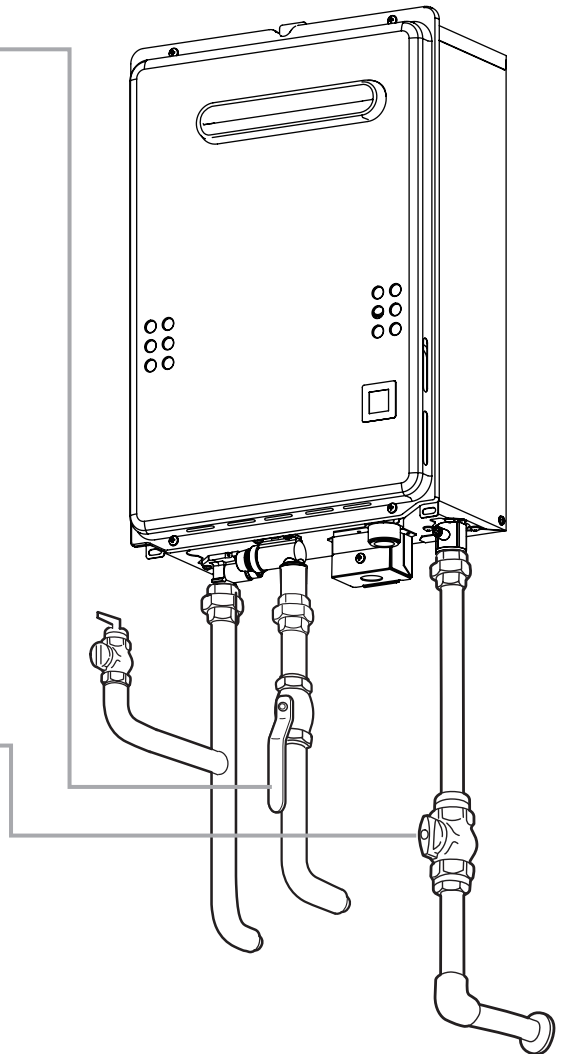
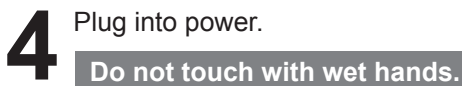
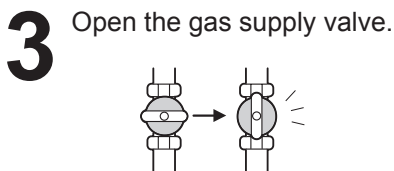
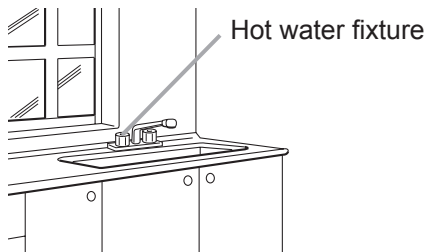
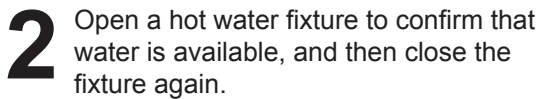
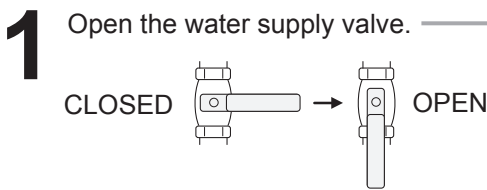
When other indication will appear, please refer to troubleshooting. (page 24)

Initial Operation

Before the first use of your water heater, do the following:

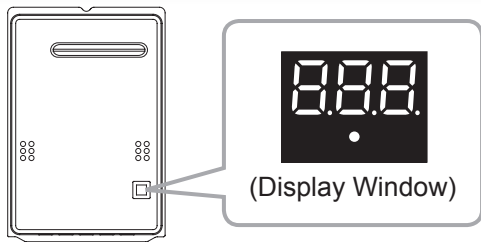
Please check the following when you use the water heater for the first time after the installation. Usually, the hot water is supplied by opening the hot water if gas, water, and electric power are supplied (if there is a remote controller, it should be turned ON).

Follow steps **1 through 4.**



How to Use (Not using the remote controller)

Using the Water Heater



The factory temperature setting is 120°F. Mix with cold water with a mixing valve or at the fixture for desired temperature.

1 Check that electrical power is connected.

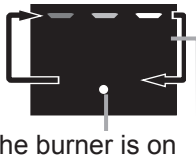
* How to check the set temperature.
If the power supply is set to "OFF", and then set to "ON", the temperature of supplied hot water is displayed.



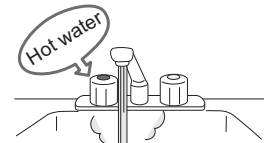
(Display Window)

Set temperature is displayed.
* When unit is initially plugged into power.

2 Turn on hot water.

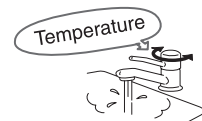
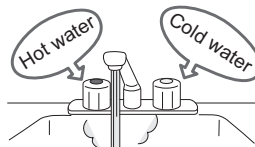


Indicates the burner is on



Indicates the burner is on. The outside edge of the 3 digit display will rotate in a circular pattern.

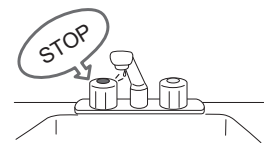
3 Mix for desired temperature.



4 Turn off the hot water.



Indicates the burner is off.



The electrical power does not need to be disconnected between uses.

If you want to the temperature to be changed to 130°F, 135°F or 140°F, contact the installer or Noritz.



DANGER

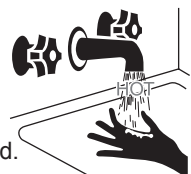
To prevent scalding.

Hot Water Heater temperatures over 125°F(52°C) can cause severe burns instantly or death from scalding.

- Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask professional person.



High Temperature

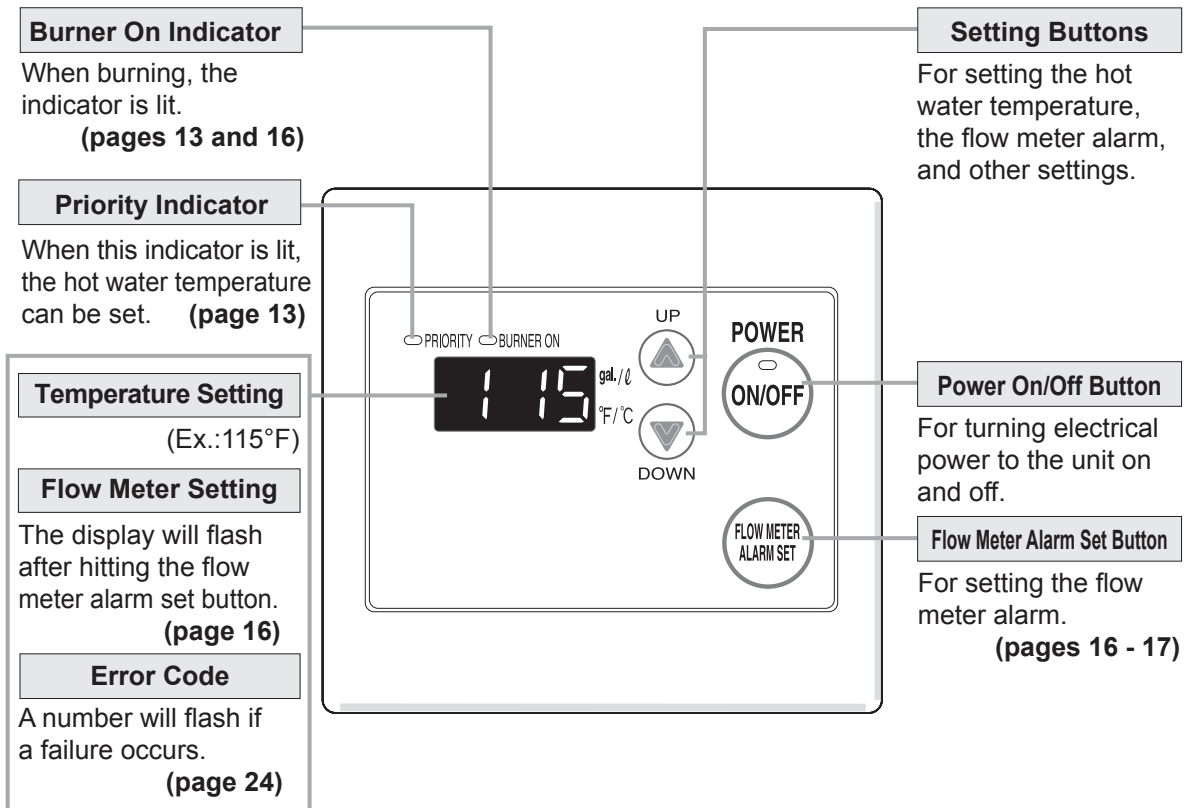


Remote Controller

Optional Remote Controller (RC-7651M)

If you want to change the temperature of supplied hot water frequently or you want to set the amount of hot water to accumulate the hot water, this remote controller is useful.

What is actually displayed depends on how the water heater is set.



* Before use, remove the protective sheet from the remote controller surface.

Note: Initial factory setting is set to display in °F and gallons.

To adjust the display to °C and liters, refer to the Installation Manual.

Setting and Using the Water Heater

1 Press the Power On/Off Button.

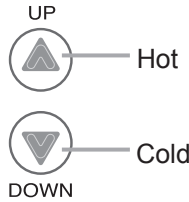


The temperature will be displayed on the remote control thermostat.



Previous set temperature (Ex.: 115°F)

2 Set temperature. (Always check the temperature setting before use.)



Check the indicator lights.



Water temperature

■ When using °F mode:

(°F: The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year.)

← The maximum output temperature can be set using the remote controller. (page 14) →

115	120	125	130	135	140
Shower, hot water supply, etc.		High temperature			

*Initial factory setting is 115°F

■ When using °C mode:

(°C (°F): The temperature settings below are examples. The temperature setting necessary depends on the usage, the length of piping and the time of year.)

← The maximum output temperature can be set using the remote controller. (page 14) →

46 (115)	47 (117)	48 (118)	50 (122)	55 (131)	60 (140)
Shower, hot water supply, etc.			High temperature		

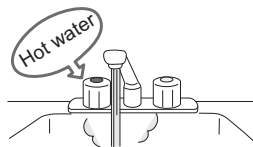
*Initial factory setting is 46°C (115°F)

If fixtures incorporate mixing valves, set the temperature higher than usual.

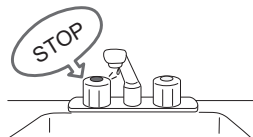
* For most residential applications, the recommended setting temperature is 120°F (50°C in °C mode) or less.

* Consult local codes for minimum operating temperatures.

3 Turn on hot water.



4 Turn off the hot water.

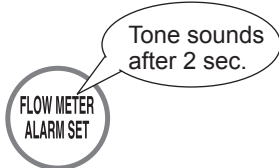


Adjusting the Maximum Output Temperature

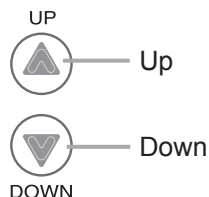
1 Turn off the Power On/Off Button.



2 Press and hold the flow meter alarm set button until a sound is heard (2 sec.).



3 Change the temperature using the setting buttons.



The upper limit of the hot-water supply temperature can be changed to

(For Fahrenheit (°F))
115°F, 120°F, 125°F, 130°F, 135°F or 140°F.

(For Celsius (°C))
46°C, 47°C, 48°C, 50°C, 55°C or 60°C.

4 Set the Power button to ON when continuing to use the unit as is. Otherwise, let the unit sit for 30 sec.



DANGER



To prevent scalding:

High Temperature

Hot Water Heater temperatures over 125°F (52°C) can cause severe burns instantly or death from scalding.

- Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering. Temperature limiting valves are available, ask professional person.
- When setting the unit to 125°F / 55°C (131°F) or higher, the temperature display will flash for 10 seconds and emit a tone as a high temperature warning.
- Take caution when using the unit again after setting to 125°F (52°C) or higher. Always check the set temperature before use.
- Do not allow anyone to change the water temperature while hot water is running.



Remote controller Display



Flashes for 10 sec

How to Use (Using the optional remote controller)

Flow Meter Alarm

Preparation

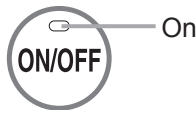
Plug the bath drain.

When the display setting is in Fahrenheit.

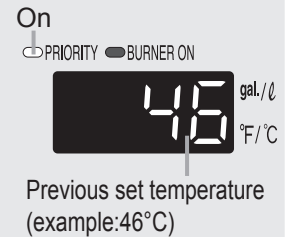
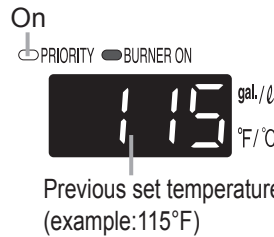
When the display setting is in Celsius.

1 Press the Power On/Off Button.

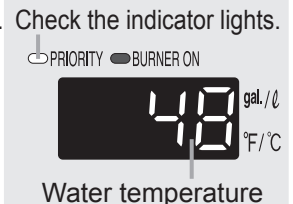
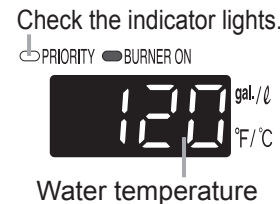
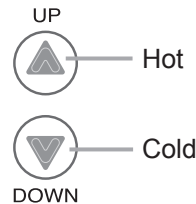
(Starting with the power off)



The temperature will be displayed on the remote control thermostat.



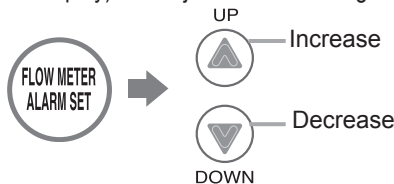
2 Set temperature. (Always check the temperature setting before use.)



3 Adjust flow meter alarm setting.

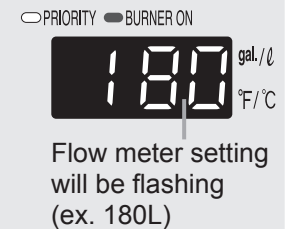
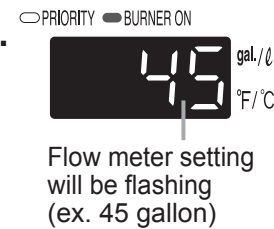
To set the flow meter alarm:

Press the flow meter alarm set button (the setting will flash on the display) and adjust with the setting buttons.



Choose the flow meter alarm setting from the following options: 10 - 60 gallon (40 - 240L) (In 5 gallon (20L) intervals), 70 gallon (260L), 80 gallon (300L), 90 gallon (340L), 100 gallon (380L), 990 gallon.

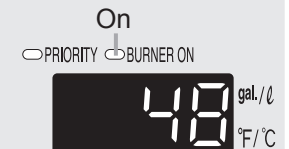
(Note:) The alarm will not sound if it is set for 990 gallon.



- * The level can only be adjusted while the indicator is flashing.
- * After ten seconds, the remote will again display the temperature.

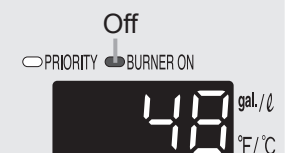
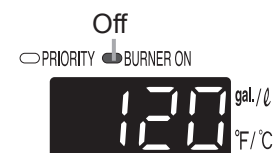
4 Turn on hot water.

Mix water to control the temperature of hot water as occasion demands. If water is mixed, fill larger quantity of hot water than the quantity of water you set.



5 Turn off the hot water when the alarm sounds.

The a alarm will sound when the set level has been reached. Stop the water.



(Note:) The alarm will not sound if it is set for 990 gallon.

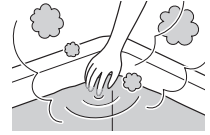
An alarm will sound for ten seconds when the flow reaches the set level.



The water will continue to run unless it is manually turned off.



Check the temperature before stepping into the bath tub.



If the flow meter alarm is being used to indicate when a tub is full:

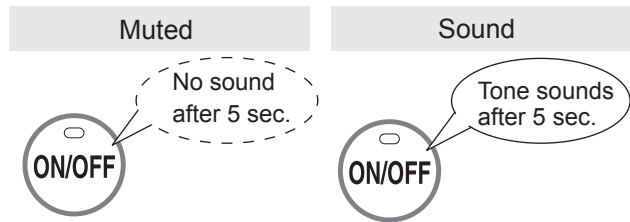
- If any hot water is being used besides what is going into the tub, the alarm will sound before the tub is full.
- If there was water in the tub before the fill began, or if the water is not shut off manually when the alarm sounds, the tub may overflow.

Muting the Remote Controller

The remote controller will emit a sound when any button is pushed. This sound can be muted if it is desired.

* Initial factory setting is with sound

1 Hold the Power On/Off Button for five seconds.



- The flow meter alarm cannot be muted.
- The high temperature warning tone when setting the unit to 125°F / 55°C (131°F) or higher will not emit a sound when muted.

Preventing Damage from Freezing-1

CAUTION

- * Damage can occur from frozen water within the device and pipes even in warm environments. Be sure to read below for appropriate measures.
- * Repairs for damage caused by freezing are not covered by the warranty.

Freezing is prevented within the device automatically by the freeze-prevention heater.

Freezing cannot be prevented when the power plug is unplugged. Do not remove the power plug from the wall outlet.

Freezing will be prevented regardless of whether the operation switch is ON or OFF.

- * In normal operation, freezing is prevented within the device automatically unless the outside temperature without wind is below -4°F (-20°C).
- * The freeze prevention heaters will not prevent the plumbing external to the unit from freezing. Protect this plumbing with insulation, heat tape or electric heaters, solenoids, or pipe covers. If there remains a freezing risk, contact the nearest Noritz agent.

Take the measures below for extremely cold temperatures*. <Only using the remote controller>
Outside temperature including wind chill factor less than -4°F (-20°C).

This method can protect not only the heater, but also the water supply, water piping and mixing valves.

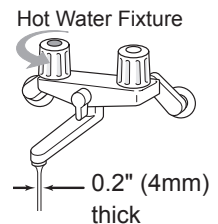
1. Turn off the Power On/Off Button.
2. Close the gas supply valve.
3. Open a hot water fixture, and keep a small stream of hot water running. (0.1 gallon (400cc)/minute or about 0.2" (4mm) thick.)

* If there is a mixing valve, set it to the highest level.

4. The flow may become unstable from time to time.

Check the flow 30 minutes later.

* In general, it is not advisable to run water through the unit when it is OFF (page 6), but in this case freeze prevention is more important.



* Remember to set mixing valves and fixtures to their original levels before using the unit again to prevent scalding.

* If there is still a risk that the unit will freeze, drain the unit as shown on the next page.

If water will not flow because it is frozen

1. Close the gas and water valves.
2. Turn off the power button.
3. Open the water supply valve from time to time to check whether water is running.
4. When the water is flowing again, check for water leaks from the unit and piping before using.

If the heater or the piping is frozen, do not use the heater or it may get damaged.

Preventing Damage from Freezing-2

If the water heater will not be used for a long period of time, drain the water.

Drain the water as follows:

CAUTION

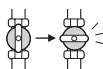


High Temperature

To avoid burns, wait until the unit cools down before draining the water. The appliance will remain hot after it is turned off.

Drain water into a bucket to prevent water damage.

1. Close the gas valve.



2. <Not using the remote controller>
Fully open one of the hot water fixtures.



<Using the remote controller>
Turn off the power button.

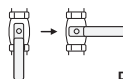
3. <Not using the remote controller>
Turn off the power supply after 2 minutes or more pass from operation of 2.

Do not touch with wet hands.

<Using the remote controller>
Turn off the power supply.

Do not touch with wet hands.

4. Close the water supply valve.

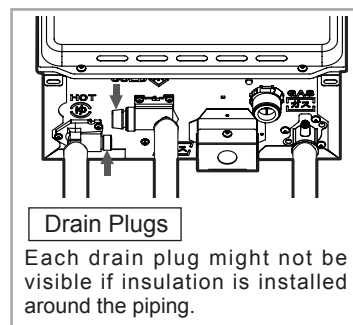


5. Fully open all hot water fixtures.



6. Turn the drain plug to the left to open, and then remove.

7. Check that the water is completely drained, close all the drain plugs and the hot water fixtures after 10 minutes or more pass from operation of 6.



Turning the Unit Back On

1. Check that all drain plugs are inserted.
2. Check that all hot water fixtures are closed.
3. Follow the procedure on page 10 "Initial operation", steps 1 through 4.

Regular Maintenance-1

Periodic Inspection



CAUTION



Be sure to do.

To prevent burns or scalding, turn off the power button or power supply and wait until the unit cools before performing maintenance.

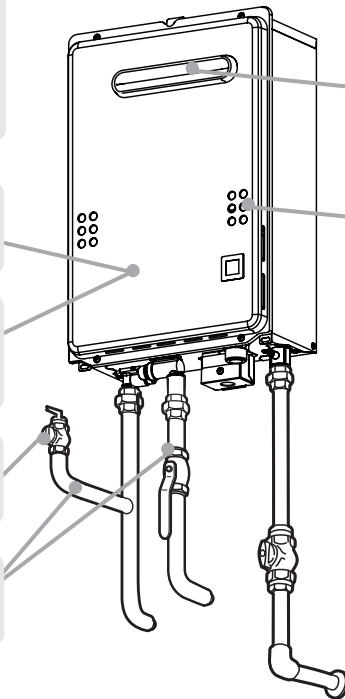
Check For laundry, newspaper, timber, oil, spray cans and other combustible materials near the heater or the exhaust vent.

Check For abnormal sounds during operation.

Check For abnormalities in external appearance, discoloration or flaws.

Check For proper operation of pressure relief valve.

Check For water leaks from the unit and piping.



Check For dust and soot in the exhaust vent.

Check For dust or debris in the air inlet.

Periodic Maintenance

Unit

Wipe the outside surface with a wet cloth, then dry the surface. Use a neutral detergent to clean any stains.

Optional Remote Controller

Wipe the surface with a wet cloth.

- Do not use benzene, oil or fatty detergents to clean the remote controller; deformation may occur.
- The remote controller is water resistant but not water proof. Keep it as dry as possible.

Regular Maintenance-2

Periodic Maintenance

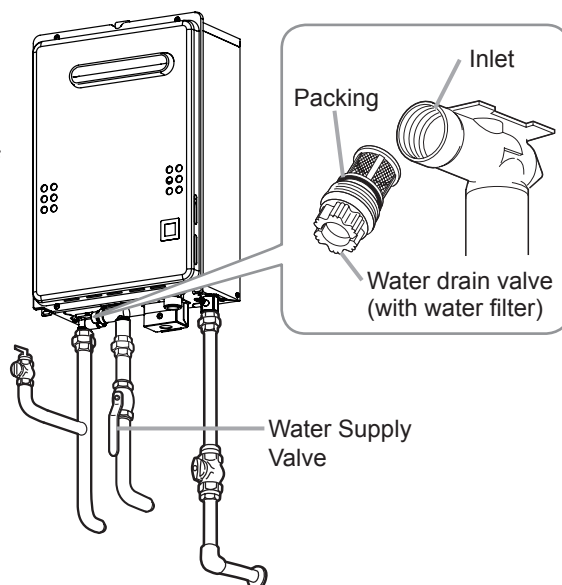
Water Drain Valve (with Water Filter)

If the water drain valve (with water filter) is covered with debris, the hot water may not run smoothly, or the unit may put out cold water. Check and clean the filter as explained below.

*** To avoid burns, wait until the unit cools down before draining the water.**

The appliance will remain hot after it is turned off.

1. Close the water supply valve.
2. Open all hot water fixtures.
3. With a bucket ready, remove the inlet and outlet drain plugs (about 0.15 gallon (0.5L) will drain out)
4. Take the water drain valve (with water filter) out of the inlet. (See illustration to right).
5. Clean the water drain valve (with water filter) with a brush under running water.
6. Replace the water drain valve (with water filter) and close the drain plugs.
(Take care not to lose the packing.)
7. Close all hot water fixtures.
8. Open the water supply valve and check that water does not leak from the drain plugs or water drain valve (with water filter).



Water Quality and Maintenance

For people who live in a hard water area, periodical flushing is necessary. If the Heat Exchanger is not flushed, the Scale Build-up may cause damage to the Heat Exchanger. In this case, this water heater will detect the Scale Build-up in the Heat Exchanger and then the error code "C*#" will be displayed in the Display Window.

When the error code "C*#" is flashing in the Display Window, the Heat Exchanger needs to be flushed to prevent damage from Scale Build-up. Please contact Noritz America for more information about flushing the Heat Exchanger. (<http://support.noritz.com/> or 866-766-7489)

* * = 1, 2, 3, 4, F

= 1, 2, 3, 4, 5, 6, 7, 8, 9, A, b, C, d, E, F

Damage to the water heater as a result of below is not covered by the Noritz America Limited Warranty. To ensure full warranty coverage, treat or condition water that exceeds the target levels provided in this table.

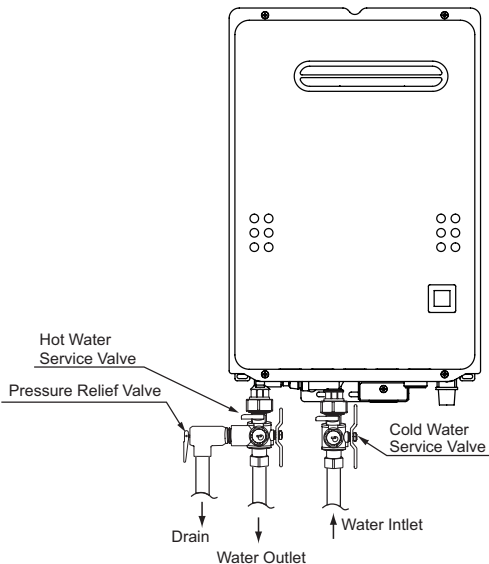
- Hard water
- Poor water quality (See the below list.)
- The water heater has displayed a "C*#" error code indicating Scale Build-up, but the heat exchanger has not been flushed.

Total Hardness**	: 200 mg/L (12 gpg) or less
Aluminum	: 0.05 to 0.2 mg/L or less
Chloride	: 250 mg/L or less
Copper	: 1 mg/L or less
Iron	: 0.3 mg/L or less
Manganese	: 0.05 mg/L or less
pH	: 6.5 - 8.5
Total Dissolved Solids	: 500 mg/L or less
Zinc	: 5 mg/L or less
Sulfate ion	: 250 mg/L or less
Residual chlorine	: 4 mg/L or less

** Maximum limit suggested by Noritz.

Source: EPA National Secondary Drinking Water Regulations (40 CFR Part 143.3)

Isolation Valves



- * Isolation valves may be purchased as an accessory from an authorized Noritz wholesaler. They allow for full diagnostic testing and easy flushing of the system.
- * The kit includes two full port isolation valves and a pressure relief valve for the hot side. Contact Noritz for more information.

Troubleshooting-1

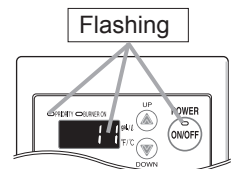
Check for an Error Code on the Display Window or Optional Remote Controller

If there is a problem with the unit, a numerical error code will flash on the display window or optional remote controller. If this occurs, take appropriate measures as listed below.

When an error code appears, the display and the operation light will flash together.



Display Window






Optional Remote Controller

Display Window Error Code	Remote Controller Error Code	Cause	Action
11	11	Ignition error.	Check whether the gas valve is open. Unplug the unit from power or press the power button on the optional remote controller to turn the unit off, open a hot water fixture, and turn the unit back on. If the flashing number doesn't return, the problem is solved.
901 903 908	90	Abnormal combustion.	If the display continues, contact the nearest Noritz agent.
902		Abnormal combustion, low gas supply pressure.	Have a professional check the gas supply pressure. Contact the nearest Noritz agent.
99	99	Abnormal combustion.	Contact the nearest Noritz agent.
C*# *=1-4, F #=1-9, A, b, C, d, E, F	C1 C4	The unit detects Scale Build-up in the Heat Exchanger. (Warning indication, and then the unit will shut off before long.)	When the error code is flashing in the Display Window, a warning indication will appear in the Display Window. And then the unit may shut off and lock before long. Needs to be flushed the Heat Exchanger to remove the Scale Build-up. If the unit will shut off and locked for this error, the unit can temporarily operate by disconnecting electrical power until the Heat Exchanger can be flushed. Contact Noritz America for more information about flushing the Heat Exchanger. (866-766-7489)
CF# #=1-9, A, b, C, d, E, F	CF	The unit detects the Scale Build-up in the Heat Exchanger many times (The unit is locked.)	The unit is locked because of repeated Scale Build-up error codes. Must flush the Heat Exchanger to remove the Scale Build-up. Before flushing the Heat Exchanger, contact Noritz America for more information.(866-766-7489)
		The outlet temperature is colder than set temperature.	Contact the nearest Noritz agent.
		The indication on the display window shown is not an error of unit. If you try to supply a low flow of water when the inlet water temperature is high, hot water is not supplied sometimes (combustion is automatically stopped and the temperature of outlet water does not become hot).	







Contact Noritz America if:

- Any other error code appears.
- An error code is indicated again after the above actions were followed.
- There are any other questions.



Initial Operation

Problems	What to do	Display Window
Unit does not attempt to ignite when water is running.	Check for reversed plumbing?	
	Check the water drain valve filter. (page 22)	
Unit attempts to ignite but fails.	Reset unit and try again. There may be air in the gas line.	
	Have a professional check the gas supply pressure.	
The hot water is not the correct temperature.	The water may be mixed in the hot water plumbing.	
	The actual outlet water temperature is lower than the set temperature of the unit.	
	Contact the nearest Noritz agent.	

Temperature

Problems	What to do	Display Window
Hot water is not available when a fixture is opened.	Are the gas and water supply valves fully open?	
	Is the water supply cut off? (Check for the circular pattern in the Display Window.)	
	Is the hot water fixture sufficiently open?	
	Is the gas being cut off by the gas meter? (Can other gas device such as stoves be used?)	 or
	(For LP) Is there enough gas in the tank? (Can other gas devices such a stoves by used?)	
	Is the water drain valve filter clogged? (page 22)	
	Is the power button (optional remote controller) turned on?	
	Check for the error code in the Display Window? Is the error code "C*#" flashing? (page 24)	 *=1-4, F # =1-9, A, b, C, d, E, F (page 24)
No water is available when a fixture is opened.	Is the water supply cut off? (Check for the circular pattern in the Display Window.)	
	Is the unit frozen?	
The hot water at the fixture is not the correct temperature.	Is the hot water fixture sufficiently open?	
	The actual outlet water temperature is lower than the set temperature of the unit.	
	Contact the nearest Noritz agent.	
Water takes time to become hot when turning the hot water fixture.	Have you allowed enough time for the cold water in the pipes to drain out.	

Troubleshooting-2

Temperature		
Problems	What to do	Display Window
The hot water at the fixture is too hot.	Are the gas and water supply valves fully open?	
	[Using the optional remote controller] Is the water temperature setting appropriate? (page 13)	
	[Using the optional remote controller] If the water supply temperature is high, it is possible for the outlet temperature to be higher than the temperature set on the remote controller.	
	[Using the optional remote controller] If only a low flow of hot water is demanded, it is possible for the outlet temperature to be higher than the temperature set on the remote controller.	
The hot water at the fixture is not hot enough.	Are the gas and water supply valves fully open?	
	[Using the optional remote controller] Is the water temperature setting appropriate? (page 13)	
	If the amount of hot water required is very high, it is possible for the outlet temperature to be lower than the temperature set on the remote controller. Decrease the amount of hot water passing through the unit and the temperature should stabilize.	
	The actual outlet water temperature is lower than the set temperature of the unit. Contact the nearest Noritz agent.	
The water is cold when only a single fixture is open.	The unit will not heat the water if the flow rate is less than 0.5 gallons (2L) per minute. Open the fixture more or open other fixtures so that a greater flow passes through the unit, and the unit should begin heating again.	
The unit does not fire when water is flowing due to high supply water temperature.	If you try to supply a low flow of water when the supply water temperature is too high.	
	The unit will not fire because it will over heat the outlet water.	
Fluctuations in hot water temperatures.	Clean the water filter of any debris. (page 22)	
[Using the optional remote controller] Setting temperature cannot rise.	Is the maximum temperature setting appropriate? (page 14)	

Amount of Hot Water

Problems	What to do	Display Window
The amount of hot water at a certain fixture is not constant.	When hot water is demanded at other fixtures, the amount available may be reduced. The maximum flow available from this unit is 5.3 GPM (20L/min.) at a 45°F (25°C) temperature rise.	
	Pressure fluctuations and other plumbing conditions can cause the temperature and pressure at a fixture to be unstable, but it should stabilize after a short time.	
	There are some types of hot water taps that discharge large volumes of hot water at first but stabilize after time.	
	To keep the temperature stable, the heater limits the amount of water that can flow through it to a low flow initially, but the amount increases over time.	
[Using the optional remote controller] The amount of hot water in the tub is less/more than the set amount when using the flow meter alarm feature.	When hot water is used for other fixtures while filling the bath tub, the tub will not fill as much.	
	If there is water in the tub already, or when filling is stopped and restarted, the tub will fill more.	
[Using the optional remote controller] The flow meter alarm does not sound even when filled to the set amount.	The flow meter alarm is set to sound when hot water is continuously discharged for the set volume of water. If mixing valves are used, or if cold water is mixed with hot water at the fixture, the tub will fill more than the setting of the flow meter alarm.	
Amount of hot water available has decreased over time.	Is the water filter clogged? (page 22)	
	If the supply water is hard and has not been treated, scale can build-up in the water heater and decrease the maximum amount of hot water available. Scale can be removed from the water heater by flushing the unit periodically. To prevent scale from forming in the water heater, a water softener or scale inhibitor is recommended.	

Optional Remote Controller

Problems	What to do	Display Window
The light on the power button does not come on.	Has there been a power failure?	
	Is the power connected properly?	
The water temperature changes after a power failure or when the power is disconnected.	The temperature setting and the flow meter alarm setting may both need to be reset after a power outage.	
The plastic on the surface or buttons of the remote controller has torn, peeled, or air bubbles inside.	The surface of the remote controller is affixed with a protective sheet (to prevent surface scratching, etc.) at time of shipment. This sheet can be removed or left as it is. When leaving the protective sheet on, areas frequently touched may tear or peel. However, the remote controller will not malfunction from water entering such torn or peeled areas. To restore the appearance of the remote controller surface, simply remove the protective sheet.	

Troubleshooting-3

Sounds

Problems	What to do	Display Window
<p>The fan can be heard after operation is stopped. A motor can be heard when turning the unit ON or OFF, when opening or closing a fixture, or after the unit has been running for a while.</p>	<p>These noises indicate the proper operation of devices which are designed to let the unit reignite more quickly, and ensure the water temperature is stable.</p>	
<p>The fan can be heard when it is very cold outside.</p>	<p>The fan may run to prevent freezing.</p>	
<p>There is a buzzing, beeping or humming noise emitting from the unit.</p>	<p>This noise is a normal function of the unit. The valves that control the water flow through the unit move during operation and also when the unit is not heating water.</p>	
<p>Loud rumbling noise on start up or during operation emitting from the unit.</p>	<p>The unit may need adjustments done for installations higher than 2000ft above sea level. Please contact your installer or Noritz to verify the unit dip switches are set correctly for your installation.</p>	

Other

Problems	What to do	Display Window
<p>The Heater stops burning during operation.</p>	<p>Are the gas and water supply valves fully open? Is the water supply cut off? Is the hot water fixture sufficiently open? Is the gas being cut off by the gas meter? (Can other gas devices such as stoves be used?) (For LP) Is there enough gas in the tank? (Can other gas devices such as stoves be used?)</p>	
<p>White smoke comes out of the exhaust vent on a cold day.</p>	<p>This is normal. The white smoke is actually steam.</p>	
<p>The hot water is turbid.</p>	<p>This is harmless. Small bubbles appear as the air in the water is heated and depressurized rapidly to atmospheric pressure.</p>	
<p>The water appears blue. The bath tub/wash-basin has turned blue.</p>	<p>Coloration to a blue color may be noticed from small traces of copper ion contained in the water and fat (furring). However, there are not problems concerning health. Coloration of the bath tub/wash-basin can be prevented by cleaning frequently.</p>	

Follow-up Service-1

Requesting Service

First follow the instructions in the troubleshooting section (pages 24 - 28).
If the error is not corrected, contact Noritz America Technical Support at 866-766-7489 or <http://support.noritz.com/>.

We will need to know:

The Model(check the rating plate)

*See page 4 for the location of the label

Date of purchase(see the warranty)

Details of problem(flashing error codes,
etc., in much detail as possible)

Your name, address, and telephone number

Desired date of visit



* A request for service may be rejected if the water heater is installed in a location where working on the unit may be dangerous. Contact a plumber.

Warranty

The warranty registration information is shown on the last page of this owner's guide (See page 32). Be sure that installer name, date of purchase and other necessary information. Read the content carefully, and keep this owner's guide in a safe place.

For repairs after the warranty period, there will be a charge on any service, and service will only be performed if the unit is deemed repairable.

Period of Time for Stocking Repair Parts

Noritz will stock repair and maintenance parts for this unit for the time period from the date of the production date as follows: twelve (12) years for the heat exchanger and ten (10) years for remaining parts.

Reinstallation

If you want to reinstall the unit at a different location, confirm that the gas and power supply indicated on the rating plate are available at the new location. If you are not sure, consult the local utility company.

Follow-up Service-2

Gas Conversion

If you move to a region that uses a different type of gas or if the local gas supply is converted, replacement of the gas manifold and adjustment of the appliance will be necessary.

This work must be performed by either Noritz or a qualified service agency and will be charged for even during the warranty period. The qualified installer will also be responsible for purchasing the gas conversion kit directly from the manufacturer.

For more information, contact Noritz America Technical Support at 866-766-7489.

WARNING

The gas conversion kit shall be installed by a qualified service agency* in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. The information in the instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury, or death. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

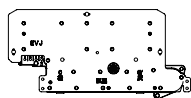
* A qualified service agency is any individual, firm, corporation, or company which either in person or through a representative is engaged in and is responsible for the connection, utilization, repair or servicing of gas utilization unit or accessories; who is experienced in such work, familiar with all precautions required, and has complied with all of the requirements of the authority having jurisdiction.

Before the gas conversion is performed, verify the proper gas conversion kit with your water heater model on the table provided below.

Conversion Kit	Model	Conversion Type
CK-58	NER66OD (GQ-2039WS ET US)	Propane to Natural Gas
CK-59	NER66OD (GQ-2039WS ET US)	Natural Gas to Propane

The following parts are supplied in the conversion kit. These items will replace the existing parts that are currently installed in the unit. Make sure that all parts are replaced and properly installed by a qualified service agency.

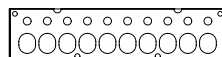
* A Noritz remote controller and a digital gas manometer are required to complete the installation. Do not proceed if this equipment is not immediately available.



Manifold Plate



O-Ring



Damper



Conversion Kit Label

After the necessary parts have been replaced on the unit, the remote controller is then used to adjust the settings on the water heater for use with the proper gas type.

The gas pressure values at both the gas supply inlet fitting and at the manifold inlet on the unit are verified by the installer. Proper adjustments will be made to ensure safe and efficient operation.

Once this is completed, a final gas leak check will be performed to confirm that all parts have been securely installed.

If you notice the smell of gas at any time after the installation has been completed, turn the water heater off and contact your gas supplier immediately.

Specifications

- Specifications may be changed without prior notice.
- The capacity may differ slightly, depending on the water pressure, water supply, piping conditions, and water temperature.

Specifications

Item		Specification
Model Name		NER66OD (GQ-2039WS ET US)
Type	Installation	Outdoor Wall Mounted
	Air Supply/Exhaust	Power Vented
Ignition		Direct Ignition
Operating Pressure		15-150 psi
Minimum Flow Rate		0.5 GPM (2 L/min.)
Dimensions (Height) x (Width) x (Depth)		20.5" (520mm) x 13.8" (350mm) x 6.7" (170mm)
Weight		35 lbs.
Water Holding Capacity		0.15 Gallon (0.5L)
Connection Sizes	Water Inlet	NPT 3/4"
	Hot Water Outlet	NPT 3/4"
	Gas Inlet	NPT 3/4"
Power Supply	Supply	120 VAC (60Hz)
	Consumption	NG : 38W LP : 39W Freeze Prevention 138W
Materials	Casing	Zincified Steel Plate/Polyester Coating
	Flue Collar	Stainless Steel
	Heat Exchanger	Copper Sheeting, Copper Tubing
Safety Devices		Flame Rod, Thermal Fuse, Lightning Protection Device (ZNR), Overheat Prevention Device, Freezing Prevention Device, Fan Rotation Detector
Accessories		Cross recessed head screw

Performance

Item		Maximum Performance	Minimum Performance
Gas Consumption	NG	140,000 btuh	15,000 btuh
	LP	140,000 btuh	15,000 btuh
Maximum Hot Water Capacity	45°F (25°C) Rise	5.3 GPM (20 L/min.)	
Capacity Range		0.5-6.6 GPM (2-25.0 L/min.)	
Default Temperature Options		120°F (50°C), 130°F (54°C), 135°F (57°C), 140°F (60°C) (Original is 120°F (50°C))	
Temperature Settings (Using the optional remote controller)	°F Mode:	115-140°F (In 5°F intervals) (6 Options)	
	°C Mode:	46, 47, 48, 50, 55, 60°C (6 Options)	

Noritz America Corporation LIMITED WARRANTY - TANKLESS WATER HEATERS

1. What is Covered by this Warranty During the applicable Warranty Period (specified below), Noritz America Corporation (“Noritz”) warrants to the original purchaser (“Buyer”) that the new Noritz gas water heater in the originally installed location (“Product”) is free from material defects in material or workmanship (the “Warranty”). This Warranty is for the benefit of the original Buyer only and terminates upon transfer of the Product from the original Buyer to any other person or entity. For this Warranty to be effective (i) the Product must be installed by a method recognized and authorized by Noritz and in compliance with Noritz published materials specifically indicated in writing to be applicable to the type and model number of the Product and in compliance with instructions in the Installation Manual and Owner’s Guide, which are included with the Product (“Proper Installation”); and (ii) Buyer must use the Product in compliance with instructions in the Installation Manual and Owner’s Guide, which are included with the Product.

2. Warranty Period This Warranty is provided by Noritz to the Buyer for the duration of the applicable Warranty Period. This Warranty takes effect (“Warranty Effective Date”) on the date of Proper Installation of the Product, or 30 days after the date of purchase of the Product, whichever occurs first, and is effective until the expiration of the “Warranty Period” for the particular Product component as shown below. The date of Proper Installation must be provided to Noritz as well as a copy of the original receipt for the purchase of the Product to establish the Warranty Effective Date. For example, when the Product is installed in new single-family residential construction, the Warranty Effective Date is the date upon which the Buyer takes title to the real property (e.g., the date of recordation of the deed conveying title to Buyer).

■ Warranty Period for Heat Exchanger

Conditions	
A) Used in a single family dwelling	12 years
B) Used in conjunction with a controlled recirculation system[1] installed in accordance with the installation manual in a single family dwelling	3 years [2]
C) Used in a commercial capacity; used in other than a single family dwelling; supplied with pre-heated water or used in conjunction with uncontrolled recirculation	

■ Warranty Period for Parts and Labor

Parts other than Heat Exchanger	5 years
Reasonable labor [3]	1 year

Footnote:

- [1] An aquastat is the minimum pump control requirement in order to maintain the full recirculation warranty. Point of use or “on demand” recirculation systems which are thermally controlled (i.e. aquastat) also classify as controlled systems.
- [2] 3 years or 4,000 operational (burn) hours, whichever occurs first.
- [3] A reasonable labor rate will be paid by Noritz to service/repair professional on Noritz-approved Warranty repairs, subject to Noritz’s schedule of approved labor allowances.

3. How do I Use this Warranty? If Buyer discovers, within the applicable Warranty Period, a defect in material or workmanship (“Defect”), Buyer must promptly notify Noritz or its authorized representative. Please notify Noritz by contacting Noritz’s Customer Care at info@noritz.com, or by writing to Noritz Customer Care at 11160 Grace Avenue, Fountain Valley, CA 92708, or by calling Noritz Customer Care at 866-766-7489. Buyer must provide evidence of the Warranty Effective Date (See Section 2 above). Within a reasonable time after Noritz receives such notification, Noritz will ship at Noritz’s expense, either new or used/refurbished replacement parts to correct a Noritz-confirmed Defect. Buyer is responsible for any other costs, including but not limited to labor for servicing or replacing the part or Product (except to the extent that labor is covered as described in the Warranty Period section above), costs for permits or materials necessary for the repair or replacement, or incidental costs resulting from damage external to the Product resulting from the Defect. The replacement component or Product will be warranted only for the unexpired portion of the original component’s applicable Warranty Period. If during the applicable Warranty Period, the Noritz-provided new or used replacement parts, when properly installed, do not correct the Defect, or if Noritz is unable to correct the Defect after a reasonable number of attempts, Noritz will provide, at its option, one of the following: (i) a replacement new or used/refurbished Product (at Noritz’s option, either the same, comparable or better model), to be shipped at Noritz’s expense, or (ii) a full refund of the purchase price paid for the Product (excluding labor or installation costs). These remedies are the Buyer’s only remedies for breach of Warranty.

4. What is Not Covered by this Warranty Please refer to the Installation Manual and Owner’s Guide supplied with your new Noritz Product. In addition, this Warranty becomes null and void if any of the following are determined to be contributing factors to failure of the Product under this Warranty:

- Abuse, neglect, misuse or misapplication
- Improper, dangerous, or destructive maintenance procedures
- Use in conjunction with any unapproved device
- Installation in an environment that is corrosive or otherwise destructive to the Product, whether internal or external
- Incorrect gas or water pressure
- Incorrect sizing for the application
- Use with improper gas type
- Damage as a result of freezing within the Product or surrounding piping
- Damage as a result of use with non-potable water, untreated or poorly treated well water, or water with high PH levels or hardness levels in excess of 12 grains per gallon (200 mg/L). (Please refer to the “Water Quality” section of the Owner’s Guide for details)
- Damage caused by acts of God including, but not limited to; fire, flood, lightning, or natural disaster
- Damage caused by use of the Product for purposes other than those for which it was designed
- Damage caused by unauthorized attachments or modifications
- Damage resulting from improper installation of the Product
- Damage during shipment

Product purchased from any seller or retailer that is not authorized by Noritz, or any installer that obtained the Product from a distributor or supplier that is not authorized by Noritz (collectively, “Non-Authorized Product”) is not covered by this Warranty and the Warranty shall be void as to such Non-Authorized Product.

5. DISCLAIMER OF WARRANTIES THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. NORITZ DISCLAIMS ALL OTHER OBLIGATIONS OR LIABILITIES ON ITS PART AND NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON OR ENTITY TO BIND OR ASSUME FOR NORITZ ANY OTHER LIABILITIES IN CONNECTION WITH THE PERFORMANCE OF THE PRODUCT. THIS WARRANTY ONLY COVERS REPLACEMENT PRODUCT OR PARTS THEREOF, AND EXCEPT AS EXPRESSLY SET FORTH ABOVE, DOES NOT COVER THE COST OF LABOR OR SERVICES UNDER ANY CIRCUMSTANCES. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

6. LIMITATION OF REMEDIES NORITZ’S TOTAL LIABILITY FOR ANY CLAIM ARISING HEREUNDER SHALL NOT EXCEED THE PURCHASE PRICE WHICH YOU PAID FOR THE PRODUCT. IN NO EVENT WILL NORITZ BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED ON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. DAMAGES THAT NORITZ WILL NOT BE RESPONSIBLE FOR INCLUDE, BUT ARE NOT LIMITED TO: LOSS OF PROFITS; LOSS OF SAVINGS OR REVENUE; LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT; COST OF CAPITAL; COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, OR SERVICES; DOWNTIME; THE CLAIMS OF THIRD PARTIES, INCLUDING CUSTOMERS; AND INJURY TO PROPERTY.

7. Time Limit for Bringing Suit Any action for breach of Warranty must be filed and served within 6 months following the expiration of the applicable Warranty Period with respect to the particular Product component.

8. No Other Warranties There are no express warranties other than those contained in this agreement. Unless modified in a writing signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all oral or written prior agreements and all other communications between the parties relating to the subject matter of this agreement, including but not limited to statements made by salespersons. No employee or representative of Noritz, or any other person or entity, is authorized to make any warranty in addition to those made in this agreement, or to modify any warranty made in this agreement. Buyer is warned, therefore, to check this agreement carefully to see that it correctly reflects those terms that are important to the Buyer.

9. Allocation of Risks This agreement allocates the risks of Product failure between Noritz and the Buyer. This allocation is recognized by both parties and is reflected in the price of the goods. Buyer acknowledges that it has read this agreement, understands it, and is bound by its terms. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

Register your Warranty online at www.noritz.com/warranty