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.
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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 three categories. Closely observe these warnings; they are critical to your safety.

Icons warning of risk level

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ Danger</td>
<td>Denotes content that may result in instantaneous fire, serious injury and even death when ignored.</td>
</tr>
<tr>
<td>⚠️ Warning</td>
<td>Denotes content that may result in fire, serious injury and even death when ignored.</td>
</tr>
<tr>
<td>⚠️ Caution</td>
<td>Denotes content that may result in bodily injury and physical damage when ignored.</td>
</tr>
</tbody>
</table>

Remarks

The content following this icon is necessary to understand for safe and easy use of this water heater.

Other icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚠️ Electric Shock</td>
<td></td>
</tr>
<tr>
<td>⚠️ High Temperature</td>
<td></td>
</tr>
<tr>
<td>⚠️ Be sure to do</td>
<td></td>
</tr>
<tr>
<td>⚠️ Ground</td>
<td></td>
</tr>
<tr>
<td>⚠️ Prohibited</td>
<td></td>
</tr>
<tr>
<td>⚠️ No flame</td>
<td></td>
</tr>
<tr>
<td>⚠️ Don’t touch</td>
<td></td>
</tr>
<tr>
<td>⚠️ Don’t disassemble the equipment</td>
<td></td>
</tr>
<tr>
<td>⚠️ Don’t touch with a wet hand</td>
<td></td>
</tr>
</tbody>
</table>

Danger

If you detect a gas leak:
1. Do not try to light any appliance
2. Do not touch any electrical switch; do not use any phone in your building.
3. Immediately call your gas supplier from a neighbor’s phone. Follow the gas supplier’s instructions.
4. If you cannot reach your gas supplier, call the fire department.

Do Not Install Indoors.

Indoor

This will cause carbon monoxide poisoning and a potential fire hazard.
**Important Safety Information - 2**

**Warning**

- 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 at the main
  4. Consult the nearest Noritz agent

- Do not turn off the water heater or change the water temperature while someone is bathing.

- Do not place combustibles such as laundry, newspapers, oils etc. near the heater.

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

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

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

- Check the temperature of the running hot water before entering the shower.
- Check the temperature before stepping into the bath tub.

- Be sure the gas/power supplied matches the gas on the rating plate.

**For Natural Gas**

**Automatic Instantaneous Water Heater**

Noritz America Corporation
50172 Arctic Ocean Dr Suite 102 Lake Forest, CA 92630
Tel: (949)430-0409
Nordi 4-99NI-02
Type of Gas: Natural Gas
Input: Max. 150,000 Btu
Recovery Rate: 188 Gallons/ Hour
Input Gas Pressure: Min. 4 Max. 13 Scf/hr
Mandolin Ani. Pressure: Min. 0.5 – Max. 2.4 inches
AC: 120 Volts 60Hz
Min: 15Psi – Max: 150Psi

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

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

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

- Contact Noritz before using with a solar pre-heater.
| Caution |
|------------------|--------------------------------------------------|
| ![Be sure to electrically ground the unit.](image) | ![Do not touch the exhaust vent during or immediately after operation of the water heater.](image) |
| ![Do not touch the power cord with wet hands.](image) | ![Keep power cord free of dust.](image) |
| ![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.](image) | ![Do not use hair spray or spray detergent in the vicinity of the heater.](image) |
| ![Do not use the water heater for other than hot water supply, shower and bath.](image) | ![If this unit will be installed in a salon or other location where hair spray or aerosols will be used, locate the unit in a separate area that is supplied with fresh air from outdoors.](image) |
| ![Do not install in locations where excessive dust or debris will be in the air.](image) | |
## Important Safety Information-3

<table>
<thead>
<tr>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>Clean the filter on the water inlet as frequently as required by the quality of your local water.</strong></td>
</tr>
<tr>
<td><strong>Keep the area around the unit clean.</strong> If boxes, weeds, cobwebs, cockroaches etc. are in the vicinity of the unit, damage or fire can result.</td>
</tr>
<tr>
<td><strong>Do not install the equipment where the exhaust will blow on walls or windows.</strong></td>
</tr>
<tr>
<td><strong>Treat hard, acidic or otherwise impure supply water with approved methods to ensure full warranty coverage.</strong></td>
</tr>
<tr>
<td><strong>Problems resulting from scale formation are not covered by the warranty.</strong></td>
</tr>
<tr>
<td><strong>Check ignition during use and extinction after use.</strong></td>
</tr>
<tr>
<td><strong>Do not run water through the unit when unit is not on.</strong> 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 or valves, discharge water setting the handle completely to the water side.</td>
</tr>
<tr>
<td><strong>This unit is only approved for installation up to 4500 ft. above sea level.</strong> For installations at higher elevations, contact Noritz America for Instructions.</td>
</tr>
<tr>
<td><strong>Do not disassemble the remote controller.</strong></td>
</tr>
<tr>
<td><strong>Do not use benzene, oil or fat detergents to clean the remote controller.</strong> This may cause deformation.</td>
</tr>
<tr>
<td><strong>Do not get the remote controller wet.</strong> Although it is water resistant, too much water can cause damage.</td>
</tr>
<tr>
<td><strong>Do not splash water on the remote controller. Do not expose the remote controller to steam.</strong> Do not locate the remote controller near stoves or ovens, this may cause damage or failure.</td>
</tr>
<tr>
<td><strong>Preventing damage from freezing (☞p.17)</strong> 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.</td>
</tr>
<tr>
<td><strong>Take necessary measures to prevent freezing of water and leakage of gas when leaving the unit unused for long periods of time. (☞p.18)</strong></td>
</tr>
<tr>
<td><strong>If it is snowing, check the air inlet, exhaust gas vent and exhaust vent terminal for blockage.</strong></td>
</tr>
<tr>
<td><strong>Do not use parts other than those specified for this equipment.</strong></td>
</tr>
</tbody>
</table>
General Parts-1

Main Unit

Outdoor Wall Hanging Model

Exhaust Vent

Front Cover

Air Inlet

Water Drain Valve (with Water Filter)
(Inside Water Inlet)  (p.20)

Pressure Relief Valve

Water Supply Valve

Gas Supply Valve

* The above illustration shows an example of installation. The exact installation configuration may be slightly different.
Remote Controller (RC-7646M-2)

Display
(See next page)

Setting Buttons
For setting the hot water temperature, the flow meter alarm, and other settings.

Power On/Off Button
For turning the heater on and off.

Flow Meter Alarm Set Button
For setting the flow meter alarm. (See p.14 and 15)

* Before use, remove the protective sheet from the remote controller surface.
* The unit has been shipped from the factory with the remote control set at 110°F.
The illustration below shows the remote controller display. What is actually displayed depends on how the water heater is set.

**Priority Indicator**
When this indicator is lit, the hot water temperature can be set. (☞ p.13)

**Burner On Indicator**

**Temperature Setting**
(Ex.: 110°F)

**Flow Meter Setting**
The display will flash after hitting the flow meter alarm set button. (☞ p.15)

**Error Code**
A number will flash if a failure occurs. (☞ p.24)
Initial Operation

Before the first use of your water heater, make the following preparations.

Follow steps 1 through 4.

1. Open the water supply valve.

2. Open a hot water fixture to confirm that water is available, and then close the fixture again.

3. Open the gas supply valve.

4. Turn on the power.
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. With the remote controller off, hold the Power On/Off Button for five seconds.

   - **Muted**: No sound after 5 sec.
   - **Sound**: Tone sounds after 5 sec.

The flow meter alarm cannot be muted.
How to Use (Using the remote controller)

Setting and Using the Water Heater

1. Press the Power On/Off Button.

(Starting with the Power Off)

The temperature will be displayed on the remote control thermostat.

Previous set temperature (Ex.: 110°F)

2

Caution

To prevent scalding:

Temperatures above 125°F can scald.

- Check the water temperature by hand before bathing or showering.

- When setting the unit to 125°F or higher, the temperature display will flash for 10 seconds as a high temperature warning.

- Take caution when using the unit again after setting to 125°F or higher. Always check the set temperature before use.

- Do not allow anyone to change the water temperature while hot water is running.

High Temperature

Remote Controller Display

Flashes for 10 sec

125°F?!

What's the setting?
2 Set temperature. (Always check the temperature setting before use.)

3 Turn on hot water.

4 Turn off the hot water.

Check the indicator lights.

Water temperature

<table>
<thead>
<tr>
<th>Temperature Setting</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>105</td>
</tr>
<tr>
<td>110</td>
<td>120</td>
</tr>
<tr>
<td>115</td>
<td>125</td>
</tr>
<tr>
<td>120</td>
<td>130</td>
</tr>
<tr>
<td>125</td>
<td>135</td>
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<td>130</td>
<td>140</td>
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<td>135</td>
<td>145</td>
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<tr>
<td>140</td>
<td>150</td>
</tr>
<tr>
<td>145</td>
<td>160</td>
</tr>
<tr>
<td>150</td>
<td>170</td>
</tr>
<tr>
<td>155</td>
<td>176</td>
</tr>
</tbody>
</table>

Water temperature

On

Off

Initial factory setting is 110°F

For most residential applications, the recommended setting temperature is 120°F or less. For applications that occasionally require a higher temperature setting, locate the remote controller in a convenient location (p.65).

Consult local codes for minimum operating temperatures.

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

If fixtures incorporate mixing valves, set the temperature higher than usual.
How to Use (Using the remote controller)
Flow Meter Alarm

1. Plug the bath drain.

Preparation

Press the Power On/Off Button


The temperature will be displayed on the remote control thermostat.

Previous set temperature (example: 110°F)

2. Set temperature. Always check temperature setting before use.

Check the indicator lights.

Water temperature
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.

To set the flow meter alarm:

3 Adjust flow meter alarm setting.

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 (in 5 gallon intervals), 70 - 100 (in 10 gallon intervals), or 990 gallons.

Note: The alarm will not sound if it is set for 990 gal.

Flow meter setting will be flashing (ex. 45 gal.)
- 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.

5 Turn off the hot water when the alarm sounds.

The 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 gal.

Water Temperature

<table>
<thead>
<tr>
<th>Water Temperature</th>
<th>(°F)</th>
<th>The temperatures settings below are only examples. The temperature setting necessary will depend on the usage, the length of piping and the time of year.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>105</td>
<td>110</td>
</tr>
<tr>
<td>Warm</td>
<td>Warmer</td>
<td>Hot</td>
</tr>
</tbody>
</table>

* Initial factory setting: 110°F

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.
- If there was water in the tub before the fill began, the temperature in the tub after it is full may be different from the temperature setting.
How to Use (Not using the remote controller)

Setting and Using the Water Heater

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

1 Check that electrical power is connected.

2 Turn on hot water.

3 Mix for desired temperature.

4 Turn off the hot water.

WARNING

To prevent scalding.

- Check the temperature of the running hot water before using. Temperatures above 125°F can scald instantly.

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

The electrical power does not need to be disconnected between uses.
Preventing Damage from Freezing-1

Remarks
* 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.)

* 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 danger, 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 5°F)

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

1. Turn off the power.
2. Close the gas supply valve.
3. Open a hot water fixture, and keep a small stream of hot water running. (400cc/minute or about 1/4" thick.)
   * If there is a mixing valve, set it to the highest level.
   * When linking multiple units, discharge water equivalent to 400 cc/minute per unit.
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 (see p. 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 chance that the unit will freeze, drain the unit as 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 equipment and piping before using.

If the heater or the piping is frozen, do not use the heater or it may get damaged.
If the water heater will not be used for a long period of time, Drain the water.

Drain the water as follows:

1. Close the gas valve.

2. (1) Turn the power on. <Using the remote controller>

   (2) Turn and leave open the hot-water tap for more than 1 minute and close.
   * If multiple units are being used, drain one minute for each unit.

   * An 11 Error Code may appear on the remote controller.
   This is not a malfunction of the unit. Do not turn Power ON/OFF Button OFF.

3. Close the water supply valve, disconnect the electrical power supplied to the unit.

4. Fully open all hot water fixtures.

5. Open all drain plugs and drain the water out of the unit.

6. When the water is completely drained, replace all drain plugs and close the hot water fixtures.

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 p.10 “Initial operation”, steps 1 through 4.
Regular Maintenance-1

Periodic Inspection

**Caution**

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

- For laundry, newspaper, timber, oil, spray cans and other combustible materials. (☞ p. 4)
- For abnormal sounds during operation.
- For abnormalities in external appearance, discoloration or flaws.
- For proper operation of pressure relief valve.
- For dust and soot in the exhaust vent.
- For dust or debris in the air inlet.
- For water leaks from the equipment and piping.

Periodic Maintenance

**Equipment**

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

**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.
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 equipment 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 0.2 gal. 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).

Optional Maintenance

Water Heater Service Valves (IK-WV-1)

* Isolator valve kits may be purchased as an accessory (Part #IK-WV-1). 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

### Initial Operation

<table>
<thead>
<tr>
<th>Condition</th>
<th>Checkpoints</th>
</tr>
</thead>
</table>
| Unit does not attempt to ignite when water is running. | • Is water running?  
  • Check for reversed plumbing or crossed pipes.  
  • Check the water drain valve filter. ([p.20](#)) |
| 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. |

### Temperature

<table>
<thead>
<tr>
<th>Condition</th>
<th>Checkpoints</th>
</tr>
</thead>
</table>
| 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?  
  • 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?)  
  • Is the water drain valve filter clogged? ([p.20](#))  
  • Is the power button turned on? |
| No water is available when a fixture is opened. | • Is the water supply cut off?  
  • Is the heater frozen? |
| The hot water is not the correct temperature. | • Is the hot water fixture sufficiently open? |
| 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? |
| The water is too hot. | • Are the gas and water supply valves fully open?  
  • (Using the remote controller) Is the water temperature setting appropriate? ([p.12](#) and p.13)  
  If the water supply temperature is high, it is possible for the temperature to be higher than the temperature set on the remote controller.  
  • If only a small amount of hot water is demanded, it is possible for the temperature to be higher than the temperature set on the remote controller. |
| The water is not hot enough. | • Are the gas and water supply valves fully open?  
  • (Using the remote controller) Is the water temperature setting appropriate? ([p.12](#) and p.13)  
  • If the amount of hot water required is very high, it is possible for the 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. |
# Troubleshooting-2

## Temperature

| 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 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. |
| Fluctuations in hot water temperatures. | • Set water temperature at 115°F to 120°F. This will allow you to use a higher flow of hot water thus meeting the minimum flow requirement of 0.5 gpm.  
• Clean the water filter of any debris (☞ p.20) |

## Amount of Hot Water

| 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 a 45°F temp. rise. for N-069M-OD=6.9 GPM / for N-063S-OD=6.3 GPM  
• 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 discharges 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 small amount initially, but the amount increases over time. |
| The amount of hot water in the tub is less/more than the set amount. | • 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. |
| 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? (☞ p.20) |
Remote Controller

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.

Sounds

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.  
- 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.

Other

The Heater stops burning during operation.  
- 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?)

White smoke comes out of the exhaust vent on a cold day.  
- This is normal. The white smoke is actually steam.

The hot water is turbid.  
- This is harmless. Small bubbles appear as the air in the water is heated and depressurized rapidly to atmospheric pressure.

The water appears blue  
The bath tub/wash-basin has turned blue  
- 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.
Check for an Error Code or Flashing Light on the Unit

[Error displays on the remote controller]

If there is a problem with the unit, a numerical error code will flash on the 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.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Ignition error</td>
<td>Check whether the gas valve is open. Press the power button 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.</td>
</tr>
<tr>
<td>90</td>
<td>Abnormal combustion, low gas supply pressure</td>
<td>Have a professional check the gas supply pressure. Contact the nearest Noritz agent.</td>
</tr>
<tr>
<td>99</td>
<td>Abnormal combustion</td>
<td>Contact the nearest Noritz agent.</td>
</tr>
</tbody>
</table>

[Error displays on the lamp]

If there is a problem with the unit, a lamp will flash on the front of the unit. If this occurs, take appropriate measures as listed below.

<table>
<thead>
<tr>
<th>Lamp</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>Unit abnormality</td>
<td>Check whether the gas valve is open. Close the hot water fixture, and then open it again. If the lamp does not begin flashing again, the problem is solved.</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Contact our sales agent if:

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

Requesting Service
First follow the instructions in the troubleshooting section (p.21 to p.24). If the error is not corrected, contact our sales agent.

We will need to know:
The Model .......... (check the rating plate)
*See p.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
A warranty registration card is included separately. Be sure that the plumber, date of purchase and other necessary items are filled in. Read the content carefully, and keep the warranty card 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 a minimum of seven years after production has ceased.

Reinstallation
If you want to reinstall the appliance 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.

If you move to a region that uses a different type of gas, conversion and adjustment of the appliance will be necessary. This work must be performed by Noritz and will be charged for even during the warranty period.
### 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.

#### Outdoor, Wall Hanging
- **Power Vented**
- **Direct Ignition**
- **15-150 PSI**
- **0.5 GPM**
- **23.6"(Height) x 13.8"(Width) x 9.4"(Depth)**
- **0.2 Gallon**
- **3/4"**
- **120 VAC (60Hz)**
- **Zincified Steel Plate/Polyester Coating**
- **Stainless Steel**
- **Copper Sheeting, Copper Tubing**
- **Flame Rod, Thermal Fuse, Lightning Protection Device (ZNR), Electric Leakage Prevention Device (GFCI), Overheat Prevention Device, Freezing Prevention Device, Fan Rotation Detector**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>N-069M-OD</td>
</tr>
<tr>
<td>Installation</td>
<td>Outdoor, Wall Hanging</td>
</tr>
<tr>
<td>Air Supply/Exhaust</td>
<td>Power Vented</td>
</tr>
<tr>
<td>Ignition</td>
<td>Direct Ignition</td>
</tr>
<tr>
<td>Operating Pressure</td>
<td>15-150 PSI</td>
</tr>
<tr>
<td>Minimum Flow Rate</td>
<td>0.5 GPM</td>
</tr>
<tr>
<td>Dimensions</td>
<td>23.6&quot;(Height) x 13.8&quot;(Width) x 9.4&quot;(Depth)</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>Water Holding Capacity</td>
<td>0.2 Gallon</td>
</tr>
<tr>
<td>Connection Sizes</td>
<td>Water Inlet 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Hot Water Outlet 3/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Gas Inlet 3/4&quot;</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Supply 120 VAC (60Hz)</td>
</tr>
<tr>
<td>Consumption</td>
<td>NG : 66W LPG : 66W Freeze Prevention 125W</td>
</tr>
<tr>
<td>Materials</td>
<td>Casing Zincified Steel Plate/Polyester Coating</td>
</tr>
<tr>
<td></td>
<td>Exhaust Vent Stainless Steel</td>
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<tr>
<td></td>
<td>Heat Exchanger Copper Sheeting, Copper Tubing</td>
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<tr>
<td>Safety Devices</td>
<td>Flame Rod, Thermal Fuse, Lightning Protection Device (ZNR), Electric Leakage Prevention Device (GFCI), Overheat Prevention Device, Freezing Prevention Device, Fan Rotation Detector</td>
</tr>
<tr>
<td>Accessories</td>
<td>Remote Controller, Remote Controller Cord, Anchoring Screws</td>
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</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>Item</th>
<th>N-069M-OD</th>
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</thead>
<tbody>
<tr>
<td>Item</td>
<td>N-069M-OD</td>
</tr>
<tr>
<td>Gas Consumption</td>
<td>Maximum Performance NG : 190,000 btuh LP : 190,000 btuh</td>
</tr>
<tr>
<td></td>
<td>Minimum Performance NG : 25,000 btuh LP : 25,000 btuh</td>
</tr>
<tr>
<td>Maximum Hot Water Capacity 45°F Rise</td>
<td>6.9 Gal./min. 6.3 Gal./min.</td>
</tr>
<tr>
<td>Capacity Range</td>
<td>0.5-7.9 Gal./min. 0.5-6.3 Gal./min.</td>
</tr>
<tr>
<td>Temperature Settings</td>
<td>100-150°F (In 5°F intervals), 160, 170, 176°F (14 Options)</td>
</tr>
<tr>
<td></td>
<td>(Using the remote controller) 100-150°F (In 5°F intervals), 160°F (12 Options)</td>
</tr>
<tr>
<td>Default Temperature Options</td>
<td>120, 130, 140, 176°F (Original is 120°F)</td>
</tr>
<tr>
<td></td>
<td>120, 130, 140°F (Original is 120°F)</td>
</tr>
</tbody>
</table>
External outfitting N-069M-OD,063S-OD

For N-069M-OD only

For N-063S-OD only
### External outfitting N-069M-OD, 063S-OD

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Names</th>
<th>Order Nos.</th>
<th>Q'ty/unit</th>
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<tbody>
<tr>
<td>001</td>
<td>N-069M-OD Front set-AS</td>
<td>SKA7364</td>
<td>1</td>
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<tr>
<td>002</td>
<td>Front packing 1 EAA</td>
<td>EAAL002</td>
<td>2</td>
</tr>
<tr>
<td>003</td>
<td>Caution label 1 EHU</td>
<td>EHUK018</td>
<td>1</td>
</tr>
<tr>
<td>004</td>
<td>Caution label 2 EAU</td>
<td>EAUK004</td>
<td>1</td>
</tr>
<tr>
<td>005</td>
<td>Connection diagram label EHU</td>
<td>EHUK002</td>
<td>1</td>
</tr>
<tr>
<td>007</td>
<td>Case W EHU</td>
<td>EHU021</td>
<td>1&lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td></td>
<td>Case W EHV</td>
<td>EHV011</td>
<td>1&lt;N-063S-OD&gt;</td>
</tr>
<tr>
<td>010</td>
<td>Grommet CXP</td>
<td>CXPA026</td>
<td>1</td>
</tr>
<tr>
<td>015</td>
<td>Front packing L AAP</td>
<td>AAPL017</td>
<td>2</td>
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<tr>
<td>016</td>
<td>Lamp seal plate DEC</td>
<td>DECK008</td>
<td>1</td>
</tr>
<tr>
<td>020</td>
<td>Wiring coupling BXK</td>
<td>BXKA022</td>
<td>1</td>
</tr>
<tr>
<td>034</td>
<td>Junction box set EHU</td>
<td>EHUA008</td>
<td>1</td>
</tr>
<tr>
<td>035</td>
<td>Junction box packing EHU</td>
<td>EHUL002</td>
<td>1</td>
</tr>
<tr>
<td>037</td>
<td>Air thermistor-300 BWC</td>
<td>BWCH003</td>
<td>1</td>
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</tbody>
</table>

071  Cross recessed truss type3 EVERTIGHT tapping screw with PW 4X12
073  Cross recessed round-head collar type3 EVERTIGHT tapping screw 4X14
074  Cross recessed round-head collar N-tapping screw 4X8
Combustion unit and gas route N-069M-OD,063S-OD
### Combustion unit and gas route N-069M-OD,063S-OD

<table>
<thead>
<tr>
<th>Part Nos.</th>
<th>Part Names</th>
<th>Order Nos.</th>
<th>Q'ty/unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Combustion tube set EHU-A SET-V</td>
<td>SKA7365</td>
<td>1</td>
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<tr>
<td>101</td>
<td>Suction air joint packing DTJ</td>
<td>DTJL001</td>
<td>1</td>
</tr>
<tr>
<td>102</td>
<td>Ignition plug CZL &amp; packing DLK SET-V</td>
<td>SBC7684</td>
<td>1</td>
</tr>
<tr>
<td>103</td>
<td>Flame rod &amp; packing DLK SET-V</td>
<td>SBC7685</td>
<td>1</td>
</tr>
<tr>
<td>104</td>
<td>Plug packing (for B) DLK (NICH)</td>
<td>SAB2715</td>
<td>1</td>
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<tr>
<td>105</td>
<td>Plug mounting plate (for B) DLK</td>
<td>DLKC029</td>
<td>1</td>
</tr>
<tr>
<td>106</td>
<td>Burner sensor Q &amp; packing DWD SET-V</td>
<td>SBFL005</td>
<td>1</td>
</tr>
<tr>
<td>110</td>
<td>Main damper 11 DTJ</td>
<td>DTJC041</td>
<td>1</td>
</tr>
<tr>
<td>111</td>
<td>Fan packing Q DTJ</td>
<td>DTJL004</td>
<td>1</td>
</tr>
<tr>
<td>112</td>
<td>Fan flange DTJ</td>
<td>DTJF035</td>
<td>1</td>
</tr>
<tr>
<td>113</td>
<td>Fan motor EHU-A</td>
<td>EHUF031</td>
<td>1</td>
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<tr>
<td>114</td>
<td>Bell-mouth 48 DTJ</td>
<td>DTJF042</td>
<td>1</td>
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<tr>
<td>115</td>
<td>Mounting plate for igniter DTJ</td>
<td>DTJA015</td>
<td>1</td>
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<tr>
<td>116</td>
<td>Igniter CRP</td>
<td>CRPJ002</td>
<td>1</td>
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<tr>
<td>117</td>
<td>High-voltage cord L350 ALS</td>
<td>ALSJ079</td>
<td>1</td>
</tr>
<tr>
<td>118</td>
<td>Conduit guard packing DTJ</td>
<td>DTJL100</td>
<td>1</td>
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<tr>
<td>125</td>
<td>Manifold16 EHU SET-AS</td>
<td>SKA7408</td>
<td>1&lt;LP&gt;</td>
</tr>
<tr>
<td>126</td>
<td>Manifold seal packing top DTJ</td>
<td>DTJL005</td>
<td>2</td>
</tr>
<tr>
<td>127</td>
<td>Manifold seal packing side DTJ</td>
<td>DTJL007</td>
<td>1</td>
</tr>
<tr>
<td>132</td>
<td>Gas mech. S16D EDN SET-V</td>
<td>SBET833</td>
<td>2</td>
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<tr>
<td>134</td>
<td>O-ring P28</td>
<td>1648306</td>
<td>1</td>
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<tr>
<td>138</td>
<td>Gas coupling EHU</td>
<td>EHUE011</td>
<td>1</td>
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<tr>
<td>140</td>
<td>Gas fitting 20A SET EHU</td>
<td>EHUE021</td>
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<tr>
<td>145</td>
<td>Conduit R10 EHU</td>
<td>EHUJO04</td>
<td></td>
</tr>
</tbody>
</table>

- 162 Cross recessed round-head N-tapping screw 4X8
- 163 Cross recessed round-head collar N-tapping screw 4X12
- 164 Cross recessed truss machine screw with PW M4X12
- 165 Cross recessed round-head type3 EVERTIGHT tapping screw 5X16
- 166 Cross recessed hexagon head machine screw M4X8
- 167 Cross recessed round-head collar N-tapping screw 4X10
- 168 Cross recessed round-head machine screw M5X12
- 169 Cross recessed round-head SPAKmachine screw with guide M4X14
Hot-water feed route N-069M-OD

(Thermal fuse rounding procedure)

(Left side view) Thermal fuse fastener

(Front side view) Freeze preventative heater

(Right side view) Heater fastener

(Rear side view) Thermal fuse
Hot-water feed route N-063S-OD

(Left side view)
- Thermal fuse fastener
- Freeze preventive heater
- Heater fastener
- Thermal fuse

(Thermal fuse rounding procedure)

(Front side view)
- Thermal fuse fastener

(Right side view)
- Thermal fuse fastener

(Rear side view)
- Thermal fuse
### Hot-water feed route N-069M-OD, 063S-OD

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Names</th>
<th>Order Nos.</th>
<th>Q'ty/unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>Heat exchanger &amp; Exhaust box W EHU SET-AS</td>
<td>SKA7366</td>
<td>1&lt;N-069M-OD&gt;</td>
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<tr>
<td></td>
<td>Heat exchanger &amp; Exhaust box W EHV SET-AS</td>
<td>SKA7367</td>
<td>1&lt;N-063S-OD&gt;</td>
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<tr>
<td>401</td>
<td>Thermal fuse fastener CZL</td>
<td>CZLH005</td>
<td>1</td>
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<tr>
<td>402</td>
<td>Thermal fuse fastener DTJ</td>
<td>DTJH002</td>
<td>5</td>
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<tr>
<td>403</td>
<td>Thermal fuse Q DJT SET-V</td>
<td>SBC7703</td>
<td>1</td>
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<tr>
<td>404</td>
<td>Remaining flame safety device 96 EHU</td>
<td>EHUH001</td>
<td>1</td>
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<tr>
<td>406</td>
<td>Front top packing Q CZR</td>
<td>CZRL001</td>
<td>1</td>
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<tr>
<td>407</td>
<td>Freeze preventive heater CRP SET-V</td>
<td>SAC7745</td>
<td>1</td>
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<tr>
<td>409</td>
<td>Heater fastener EHK</td>
<td>EHKH001</td>
<td>1</td>
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<tr>
<td>410</td>
<td>Freeze preventive heater 3 BGD</td>
<td>BDH002</td>
<td>2</td>
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<tr>
<td>415</td>
<td>Quick fastener 13-22</td>
<td>SAD6537</td>
<td>2&lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>416</td>
<td>Quick fastener 13-22</td>
<td>SAD6537</td>
<td>1&lt;N-063S-OD&gt;</td>
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<tr>
<td>417</td>
<td>Quick fastener 16-25</td>
<td>SAD6593</td>
<td>2&lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>417</td>
<td>Quick fastener 16-25</td>
<td>SAD6593</td>
<td>1&lt;N-063S-OD&gt;</td>
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<tr>
<td>418</td>
<td>O-ring P12.5C</td>
<td>3359808</td>
<td>3&lt;N-069M-OD&gt;</td>
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<tr>
<td>419</td>
<td>O-ring P16C</td>
<td>3223302</td>
<td>4&lt;N-069M-OD&gt;</td>
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<tr>
<td>425</td>
<td>Water flow sensor set3 DUV</td>
<td>DUVD019</td>
<td>1</td>
</tr>
<tr>
<td>426</td>
<td>Water outlet magnetic sensor BWC</td>
<td>BWCD090</td>
<td>1</td>
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<tr>
<td>427</td>
<td>Water inlet thermistor-300 BWC</td>
<td>BWCD097</td>
<td>1</td>
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<tr>
<td>429</td>
<td>Thermistor holding plate ALS</td>
<td>ALS008</td>
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<tr>
<td>430</td>
<td>Bypass pipe EHU</td>
<td>EHU005</td>
<td>1&lt;N-069M-OD&gt;</td>
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<tr>
<td>431</td>
<td>Water valve set EHU</td>
<td>EHU007</td>
<td>1&lt;N-069M-OD&gt;</td>
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<tr>
<td>432</td>
<td>Conduit 23 EHU</td>
<td>EHU006</td>
<td>1&lt;N-069M-OD&gt;</td>
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<tr>
<td>435</td>
<td>Water inlet fitting 20A set EHU</td>
<td>EHU001</td>
<td>1&lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>436</td>
<td>Water inlet fitting 20A set EHV</td>
<td>EHV001</td>
<td>1&lt;N-063S-OD&gt;</td>
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<td>437</td>
<td>Water filter cover DTJ</td>
<td>DTJ006</td>
<td>1</td>
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<tr>
<td>442</td>
<td>Water filter (SUS) EGB</td>
<td>EGBD032</td>
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<tr>
<td>441</td>
<td>Water flow servo set HKP</td>
<td>HKPD005</td>
<td>1&lt;N-063S-OD&gt;</td>
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<tr>
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<td>Water flow servo set 2 DTZ</td>
<td>DZTD011</td>
<td>1&lt;N-069M-OD&gt;</td>
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<td>443</td>
<td>Heat exchanger thermistor-300 BWC</td>
<td>BWCD098</td>
<td>1&lt;N-069M-OD&gt;</td>
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<tr>
<td>444</td>
<td>O-ring P4C</td>
<td>1323709</td>
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<td>445</td>
<td>Waterproof cover CZL</td>
<td>CZLD041</td>
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<td>446</td>
<td>Conduit 86 DZT</td>
<td>DZTU008</td>
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<td>447</td>
<td>Hot-water thermistor-300 BWC</td>
<td>BWCD096</td>
<td>1&lt;N-063S-OD&gt;</td>
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<tr>
<td>448</td>
<td>Hot-water outlet fitting 20A EHU</td>
<td>EHU004</td>
<td>1</td>
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<tr>
<td>451</td>
<td>Drain cock CRU</td>
<td>CRUD003</td>
<td>1</td>
</tr>
<tr>
<td>452</td>
<td>Hot-water resistant O-ring P3</td>
<td>SAD6633</td>
<td>1</td>
</tr>
<tr>
<td>461</td>
<td>Cross recessed round-head P TIGHT screw 4X14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>462</td>
<td>Cross &amp; straight recessed truss type 3 S TIGHT tapping screw 4X6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>463</td>
<td>Cross recessed truss P TIGHT screw 4X10</td>
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</tr>
<tr>
<td>466</td>
<td>Cross recessed round-head machine screw M4X8</td>
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<tr>
<td>467</td>
<td>Cross recessed round-head collar type 3 EVERTIGHT tapping screw 4X12</td>
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</tbody>
</table>
Electronic control unit N-069M-OD,063S-OD

Remote controller
kitchen remote controller
(RC-7646M-2-USA)
For N-069M-OD only

Attached set

<table>
<thead>
<tr>
<th>Special part</th>
<th>Special part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>instruction manual</td>
<td>888</td>
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</table>
### Electric controller, Remote controller and attached set N-069M-OD,063S-OD

<table>
<thead>
<tr>
<th>Part Nos.</th>
<th>Part Names</th>
<th>Order Nos.</th>
<th>Q'ty/unit</th>
</tr>
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<tbody>
<tr>
<td>700</td>
<td>Relay case EHU-C SET-AS</td>
<td>SHA7841</td>
<td>1</td>
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<tr>
<td>703</td>
<td>Mounting plate for relay case EHU</td>
<td>EHUA007</td>
<td>1</td>
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<tr>
<td>704</td>
<td>Relay case cover EHU</td>
<td>EHUA013</td>
<td>1</td>
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<tr>
<td>705</td>
<td>Harness W EHU</td>
<td>EHUJ021</td>
<td>1 &lt;N-069M-OD&gt;</td>
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<td>Harness W EHV</td>
<td>EHVJ021</td>
<td>1 &lt;N-063S-OD&gt;</td>
</tr>
<tr>
<td>706</td>
<td>Lamp cable conduit CRP</td>
<td>CRPJ014</td>
<td>1</td>
</tr>
<tr>
<td>707</td>
<td>Current leakage safety device DTJ</td>
<td>DTJJ015</td>
<td>1</td>
</tr>
<tr>
<td>708</td>
<td>Mounting plate for terminal block DZT</td>
<td>DZTA006</td>
<td>1</td>
</tr>
<tr>
<td>711</td>
<td>Transformer EDN</td>
<td>EDNJ006</td>
<td>1</td>
</tr>
<tr>
<td>712</td>
<td>Transformer cover DJP</td>
<td>DJPA054</td>
<td>1</td>
</tr>
<tr>
<td>714</td>
<td>Nylon clamp HP-4N (NK-4N)</td>
<td>728909</td>
<td>1</td>
</tr>
<tr>
<td>716</td>
<td>Terminal block CRP</td>
<td>CRPJ017</td>
<td>1</td>
</tr>
<tr>
<td>731</td>
<td>Cross recessed bind machine screw M3.5X6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>732</td>
<td>Cross recessed round-head N-tapping screw 4X12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>751</td>
<td>RC-7646M-2 body USA QME</td>
<td>QMEJ005</td>
<td>1 &lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>752</td>
<td>Dressed frame body QME</td>
<td>QMEA003</td>
<td>1 &lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>753</td>
<td>Wall packing QHU</td>
<td>QHUA115</td>
<td>1 &lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>754</td>
<td>Oar plug 6X25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>755</td>
<td>Cross recessed round wood screw 4.1X25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800</td>
<td>N-069M packing set V</td>
<td>SBP7444</td>
<td>1</td>
</tr>
<tr>
<td>801</td>
<td>Cross recessed round-head machine screw M5X12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>802</td>
<td>Remote controller cord S SET EAU</td>
<td>EAUM001</td>
<td>1 &lt;N-069M-OD&gt;</td>
</tr>
<tr>
<td>888</td>
<td>Instruction manual N-069M-OD</td>
<td>SAR8330</td>
<td>1</td>
</tr>
</tbody>
</table>
Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to your safety.

**Danger**
- Danger of serious injury or even death as well as danger of fire when the product is misused by ignoring this symbol.

**Warning**
- Possibility of serious injury or even death as well as possibility of fire when the product is misused by ignoring this symbol.

**Caution**
- Possibility of bodily injury or damage to property when the product is misused by ignoring this symbol.

---

### Requests to Installers

**Caution**
- In order to use the water heater safely, read this installation manual carefully, and follow the installation instructions.

- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Check that the installation was done properly in accordance with this Installation Manual upon completion.
- After completion of installation, be sure to hand the Operation Manual (with warranty) to the customer upon filling in all of the required items.

Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54.
## 1. Included Accessories

The following accessories are included with the unit. Check for any missing items before starting installation.

<table>
<thead>
<tr>
<th>Part</th>
<th>Shape</th>
<th>Q'ty</th>
<th>Part</th>
<th>Shape</th>
<th>Q'ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross Recessed Head Screw</td>
<td></td>
<td>3</td>
<td>Installation Manual</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><em>(this document)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Controller (N-069M-OD only)</td>
<td></td>
<td>1</td>
<td>Remote Controller Cord (10ft)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><em>(N-069M-OD only)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 2. Optional Accessories

The accessories listed below are not included with the units, but may be necessary for installation.

<table>
<thead>
<tr>
<th>Part</th>
<th>Shape</th>
<th>Q'ty</th>
<th>Part</th>
<th>Shape</th>
<th>Q'ty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Controller Cord (26ft)</td>
<td></td>
<td>1</td>
<td>Quick Connect Cord</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Outdoor Remote Control Junction Box</td>
<td></td>
<td>1</td>
<td>Isolator Valves</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><em>(includes pressure relief valve)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RB-2 Recess Box</td>
<td></td>
<td>1</td>
<td>PC-63S-69M Pipe Cover</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Remote Controller (N-063S-OD only)</td>
<td></td>
<td>1</td>
<td>Remote Controller Cord (10ft)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><em>(N-063S-OD only)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3. Quick Connect Multi System Installation

• The Quick Connect Multi System allows the installation of two units together utilizing only the Quick Connect Cord.

The Quick Connect Cord is 6 ft. long. Install the units 2-18” apart from each other to ensure the cord will be able to reach between the units. (See Typical Plumbing diagram).

(If the distance between the two units is too great, not only will the cord not be able to reach, but the water temperature may also become unstable because of the difference in pipe length between the two units).

Note: Connect the remote controller to only one of the units.

System Diagram

Typical Plumbing

• Insulate the hot water piping to prevent heat loss. Insulate and apply heating materials to the cold water supply piping to prevent heat loss and freezing of pipes when exposed to excessively cold temperatures.
4. Before Installation

**Check the Gas**
- Check that the rating plate indicates the correct type of gas. Check that the gas supply line is sized for 190,000 Btuh for this unit.

**Check the Power**
- The power supply required is 120V AC, at 60Hz. Using the incorrect voltage may result in fire or electric shock.

**Do Not Use Equipment for Purposes Other Than Those Specified**
- Do not use for other than increasing the temperature of the water supply, as unexpected accidents may occur as a result.

**Check Water Supply Quality**
- If the water supply is hard, acidic or otherwise impure, treat the water with approved methods in order to ensure full warranty coverage.

**Use Extreme Caution if Using With a Solar Pre-Heater**
- Using this unit with a solar pre-heater can lead to unpredictable output temperatures and possibly scalding. If absolutely necessary, use mixing valves to ensure output temperatures do not get to scalding levels. Do not use a solar pre-heater with the quick-connect multi-system.

5. Choosing Installation Site

* Locate the appliance in an area where leakage from the unit or connections will not result in damage to the area adjacent to the appliance or to the lower floors of the structure. When such locations cannot be avoided, it is recommended that a suitable drain pan, adequately drained, be installed under the appliance. The pan must not restrict combustion air flow.

**Danger**
- This water heater is for outdoor installation only. Never install it indoors. Do not enclose the termination with corrugated metal or other materials. This will cause carbon monoxide poisoning and a potential fire hazard.
• Install the water heater in a location where it is free from obstacles and stagnant air.
• Consult with the customer concerning the location of installation.
• Do not install the water heater near staircases or emergency exits.
• Avoid places where fires are common, such as those where gasoline, benzene and adhesives are handled, or places in which corrosive gases (ammonia, chlorine, sulfur, ethylene compounds, acids) are present.
  Using the incorrect voltage may result in fire or cracking.
• Do not install the water heater where the exhaust will blow on outer walls or material not resistant to heat. Also consider the surrounding trees and animals.
  The heat and moisture from the water heater may cause discoloration of walls and resinous materials, or corrosion of aluminum materials.
• Do not locate the vent termination directed towards a window or any other structure which has glass or wired glass facing the termination.
• Avoid installation in places where dust or debris will accumulate.
  Dust may block the air-supply opening, causing the performance of the device fan to drop and incomplete combustion to occur as a result.
• Install in a location where the exhaust gas flow will not be affected by fans or range hoods.
• Take care that noise and exhaust gas will not affect neighbors.
• Avoid installation in places where special chemical agents (e.g., hair spray or spray detergent) are used.
  Ignition failures and malfunction may occur as a result.
• Avoid installation where the unit will be exposed to excessive winds.
• Before installing, make sure that the vent termination will have the proper clearances according to the National Fuel Gas Code (ANSI Z223.1).
## 6. Installation Clearances

Before installing, check for the following:
Install in accordance with relevant building and mechanical codes, as well as any local, state or national regulations.

<table>
<thead>
<tr>
<th>Item</th>
<th>Check</th>
<th>Illustration</th>
</tr>
</thead>
</table>
| Required Clearances From Heater | • Maintain the following clearance from both combustible and non-combustible materials.  
• ( ) indicates the distance when installing a heat insulating board (incombustible material other than metal, with thickness of 0.1” or more) or "section of building effectively finished with incombustible material." Note, however, that combustion failure may occur to the unit as exhaust gas reflects from the wall. Provide clearance of 24” or more in front of the unit to facilitate inspection and repair. | ![Illustration of required clearances from heater](image) |
| Surrounded the area of installation | • When installing the unit in a common side corridor, provide a clearance of 47” or more in front of the unit.  
• Set the bottom edge of the exhaust port about 84" from the corridor floor.  
• When installing the unit on a balcony, etc., secure an evacuation route of 24” or more in width.  
• Provide clearance of 24” or more in front of the unit to facilitate inspection and repair. Do install the unit such as the wall of the second floor where the unit is out of reach. | ![Illustration of required clearances around the installation area](image) |
### Clearance Requirements from Vent Terminations to Building Openings

*All clearance requirements are in accordance with ANSI Z21.10.3 and the National Fuel Gas Code, ANSI Z223.1.*

<table>
<thead>
<tr>
<th>Clearance</th>
<th>Outdoor Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>A=</td>
<td>Above grade, veranda, porch, deck, or balcony 12&quot; (36&quot;)</td>
</tr>
<tr>
<td>B=</td>
<td>Window or door that may be opened 12&quot; (36&quot;)</td>
</tr>
<tr>
<td>C=</td>
<td>Permanently closed window *</td>
</tr>
<tr>
<td>D=</td>
<td>Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet from the center of the terminal *</td>
</tr>
<tr>
<td>E=</td>
<td>Unventilated soffit *</td>
</tr>
<tr>
<td>F=</td>
<td>Outside corner *</td>
</tr>
<tr>
<td>G=</td>
<td>Inside corner *</td>
</tr>
<tr>
<td>H=</td>
<td>Each side of center line extended above meter/regulator assembly 3' within a height 15' above meter/regulator assembly 3'</td>
</tr>
<tr>
<td>I=</td>
<td>Service regulator vent outlet 3'</td>
</tr>
<tr>
<td>J=</td>
<td>Nonmechanical air supply inlet or combustion air inlet to any other appliance 12&quot; (36&quot;)</td>
</tr>
<tr>
<td>K=</td>
<td>Mechanical air supply inlet 3' above if within 10' (6')</td>
</tr>
<tr>
<td>L=</td>
<td>Above paved sidewalk or paved driveway located on public property (7' ***)</td>
</tr>
<tr>
<td>M=</td>
<td>Under veranda, porch, deck, or balcony * (12&quot; - Canada Only****)</td>
</tr>
</tbody>
</table>

(= indicates clearances required in Canada

* Maintain clearances in accordance with local installation codes and the requirements of the gas supplier

**A vent shall not terminate directly above a sidewalk or paved driveway that is located between two single family dwellings and serves both dwellings.

****Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.
Clearance Requirements from Vent Terminations to Building Openings

* All clearance requirements are in accordance with ANSI Z21.10.3 and the National Fuel Gas Code, ANSI Z223.1.

<table>
<thead>
<tr>
<th>Outdoor Clearances to Opening into Any Building</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1' below, 1' horizontally from, or 1' above any door, operable window, or gravity air inlet into any building. 3' above any forced air inlet within 10'.</td>
<td><img src="image1" alt="Diagram of clearance requirements" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vent Clearances When Heater is Installed in a Recess Box (recess box installation with cover removed)</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1' below, 1' horizontally from, or 1' above any door, operable window, or gravity air inlet into any building. 3' above any forced air inlet within 10'.</td>
<td><img src="image2" alt="Diagram of clearance requirements" /></td>
</tr>
</tbody>
</table>

* For Installations in Canada, clearances are as follows: To windows, doors, & gravity air inlets: 36". To forced air inlets: 6".
7. Installation

Securing to the wall

- The weight of the device will be applied to the wall. If the strength of the wall is not sufficient, reinforcement must be done to prevent the transfer of vibration.
- Do not drop or apply unnecessary force to the device when installing. Internal parts may be damaged and may become highly dangerous.
- Install the unit on a vertical wall and ensure that it is level.

<table>
<thead>
<tr>
<th>Item</th>
<th>Check</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caution</td>
<td>• When installing with bare hands, take caution to not inflict injury.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Be careful not to hit electrical wiring, gas, or water piping while drilling holes.</td>
<td></td>
</tr>
<tr>
<td>Locating Screw Holes</td>
<td>1. Drill a single screw hole, making sure to hit a stud.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Insert and tighten the screw and hang the unit by the upper wall mounting bracket.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Determine the positions for the remaining four screws (two for the top bracket and two for the bottom), and remove the unit.</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>4. Drill holes for the remaining four screws.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. Hang the unit again by the first screw, and then insert and tighten the remaining four screws.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. Take waterproofing measures so that water does not enter the building from screws mounting the device.</td>
<td></td>
</tr>
<tr>
<td>Structure</td>
<td>• Make sure the unit is installed securely so that it will not fall or move due to vibrations or earthquakes.</td>
<td></td>
</tr>
</tbody>
</table>
8. Gas Piping

Follow the instructions from the gas supplier.

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The Appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

The appliance and its gas connections must be leak tested before placing the appliance in operation. The inlet gas pressure must be within the range specified. This is for the purposes of input adjustment.

In order to choose the proper size for the gas line, consult local codes or the National Fuel Gas Code ANSI Z223.1.

**Gas Pressure**

Size the gas line according to total btuh demand of the building and length from the meter or regulator so that the following supply pressures are available even at maximum demand:

- **Natural Gas Supply Pressure**
  - Min. 4” WC
  - Max. 10.5” WC

- **LP Gas Supply Pressure**
  - Min. 8” WC
  - Max. 14” WC

**Gas Meter**

Select a gas meter capable of supplying the entire btuh demand of all gas appliances in the building.

**Gas Connection**

- Do not use piping with a diameter smaller than the inlet diameter of the water heater.
- Gas flex lines are not recommended unless they are rated for 190,000 btuh.
- Install a gas shutoff valve on the supply line.
- Use only approved gas piping materials.

**Measuring Gas Pressure**

In order to check the gas supply pressure to the unit, a tap is provided on the gas inlet. Remove the hex head philips screw from the tap, and connect a manometer using a silicon tube.

In order to check the gas manifold pressure, a pair of taps are provided on the gas valve inside the unit. The pressure can be checked either by removing the hex head philips screw and connecting a manometer with a silicon tube, or by removing the 1/8” NPT screw with an allen wrench and connecting the appropriate pressure gauge.

---

**Sample Gas Line**

**Instructions**

1. Size each outlet branch starting from the furthest using the Btuh required and the length from the meter.
2. Size each section of the main line using the length to the furthest outlet and the Btuh required by everything after that section.

**Sample Calculation**

Outlet A: 45’ (Use 50’), 50,000 Btuh requires 1/2”
Outlet B: 40’, 65,000 Btuh requires 1/2”
Section 1: 45’ (Use 50’), 115,000 Btuh requires 3/4”
Outlet C: 30’, 35,000 Btuh requires 1/2”
Section 2: 45’ (Use 50’), 150,000 Btuh requires 3/4”
Outlet D: 25’ (Use 30’), 25,000 Btuh requires 1/2”
Section 3: 45’ (Use 50’), 175,000 Btuh requires 1”
Outlet E: 25’ (Use 30’), 190,000 Btuh requires 3/4”
Section 4: 45’ (Use 50’), 365,000 Btuh requires 1 1/4”

---
Gas Line Sizing for a Noritz N-069M-OD, N-063S-OD
Adapted from UPC 1997

### Maximum Natural Gas Delivery Capacity in Cubic Feet per Hour (0.60 Specific Gravity, 0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>10'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>70'</th>
<th>80'</th>
<th>90'</th>
<th>100'</th>
<th>125'</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>363</td>
<td>249</td>
<td>200</td>
<td>171</td>
<td>152</td>
<td>138</td>
<td>127</td>
<td>118</td>
<td>111</td>
<td>104</td>
<td>93</td>
</tr>
<tr>
<td>1&quot;</td>
<td>684</td>
<td>470</td>
<td>377</td>
<td>323</td>
<td>286</td>
<td>259</td>
<td>239</td>
<td>222</td>
<td>208</td>
<td>197</td>
<td>174</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1404</td>
<td>965</td>
<td>775</td>
<td>663</td>
<td>588</td>
<td>532</td>
<td>490</td>
<td>456</td>
<td>428</td>
<td>404</td>
<td>358</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>2103</td>
<td>1445</td>
<td>1161</td>
<td>993</td>
<td>880</td>
<td>798</td>
<td>734</td>
<td>683</td>
<td>641</td>
<td>605</td>
<td>536</td>
</tr>
<tr>
<td>2&quot;</td>
<td>4050</td>
<td>2784</td>
<td>2235</td>
<td>1913</td>
<td>1696</td>
<td>1536</td>
<td>1413</td>
<td>1315</td>
<td>1234</td>
<td>1165</td>
<td>1033</td>
</tr>
<tr>
<td>2 1/2&quot;</td>
<td>6455</td>
<td>4437</td>
<td>3563</td>
<td>3049</td>
<td>2703</td>
<td>2449</td>
<td>2253</td>
<td>2096</td>
<td>1966</td>
<td>1857</td>
<td>1646</td>
</tr>
<tr>
<td>3&quot;</td>
<td>11,412</td>
<td>7843</td>
<td>6299</td>
<td>5391</td>
<td>4778</td>
<td>4329</td>
<td>3983</td>
<td>3705</td>
<td>3476</td>
<td>3284</td>
<td>2910</td>
</tr>
<tr>
<td>3 1/2&quot;</td>
<td>16,709</td>
<td>11,484</td>
<td>9222</td>
<td>7893</td>
<td>6995</td>
<td>6338</td>
<td>5831</td>
<td>5425</td>
<td>5090</td>
<td>4808</td>
<td>4261</td>
</tr>
<tr>
<td>4&quot;</td>
<td>23,271</td>
<td>15,990</td>
<td>12,847</td>
<td>10,995</td>
<td>9745</td>
<td>8830</td>
<td>8123</td>
<td>7557</td>
<td>7091</td>
<td>6698</td>
<td>5936</td>
</tr>
</tbody>
</table>

Contact the Gas Supplier for Btu/Cubic Ft. of the Supplied Gas. 1000 BTU/Cubic Ft. is a Typical Value

### Maximum Liquefied Petroleum (Undiluted) Delivery Capacity in Thousands of Btuh (0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>10'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>70'</th>
<th>80'</th>
<th>90'</th>
<th>100'</th>
<th>125'</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>567</td>
<td>393</td>
<td>315</td>
<td>267</td>
<td>237</td>
<td>217</td>
<td>196</td>
<td>185</td>
<td>173</td>
<td>162</td>
<td>146</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1071</td>
<td>732</td>
<td>590</td>
<td>504</td>
<td>448</td>
<td>409</td>
<td>378</td>
<td>346</td>
<td>322</td>
<td>307</td>
<td>275</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>2205</td>
<td>1496</td>
<td>1212</td>
<td>1039</td>
<td>913</td>
<td>834</td>
<td>771</td>
<td>724</td>
<td>677</td>
<td>630</td>
<td>567</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>3307</td>
<td>2299</td>
<td>1858</td>
<td>1559</td>
<td>1417</td>
<td>1275</td>
<td>1181</td>
<td>1086</td>
<td>1023</td>
<td>976</td>
<td>866</td>
</tr>
<tr>
<td>2&quot;</td>
<td>5221</td>
<td>4331</td>
<td>3485</td>
<td>2952</td>
<td>2646</td>
<td>2394</td>
<td>2205</td>
<td>2047</td>
<td>1921</td>
<td>1811</td>
<td>1602</td>
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</table>

**For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

### Maximum Capacity of Flex TracPipe® in Cubic Feet per Hour of Natural Gas (0.60 Specific Gravity, 0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>10'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>70'</th>
<th>80'</th>
<th>90'</th>
<th>100'</th>
<th>125'</th>
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<tbody>
<tr>
<td>3/4&quot;</td>
<td>206</td>
<td>147</td>
<td>121</td>
<td>105</td>
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<td>55</td>
</tr>
<tr>
<td>1&quot;</td>
<td>383</td>
<td>269</td>
<td>218</td>
<td>188</td>
<td>168</td>
<td>153</td>
<td>141</td>
<td>132</td>
<td>125</td>
<td>118</td>
<td>94</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>614</td>
<td>416</td>
<td>334</td>
<td>284</td>
<td>251</td>
<td>227</td>
<td>209</td>
<td>194</td>
<td>181</td>
<td>171</td>
<td>157</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>1261</td>
<td>888</td>
<td>723</td>
<td>625</td>
<td>559</td>
<td>509</td>
<td>471</td>
<td>440</td>
<td>415</td>
<td>393</td>
<td>350</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2934</td>
<td>2078</td>
<td>1698</td>
<td>1472</td>
<td>1317</td>
<td>1203</td>
<td>1114</td>
<td>1042</td>
<td>983</td>
<td>933</td>
<td>762</td>
</tr>
</tbody>
</table>

**For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

### Maximum Capacity of Flex TracPipe® in Thousands of Btuh Liquefied Petroleum (0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>10'</th>
<th>20'</th>
<th>30'</th>
<th>40'</th>
<th>50'</th>
<th>60'</th>
<th>70'</th>
<th>80'</th>
<th>90'</th>
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<tr>
<td>3/4&quot;</td>
<td>325</td>
<td>232</td>
<td>191</td>
<td>166</td>
<td>149</td>
<td>136</td>
<td>126</td>
<td>118</td>
<td>112</td>
<td>106</td>
<td>87</td>
</tr>
<tr>
<td>1&quot;</td>
<td>605</td>
<td>425</td>
<td>344</td>
<td>297</td>
<td>265</td>
<td>241</td>
<td>222</td>
<td>208</td>
<td>197</td>
<td>186</td>
<td>143</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>977</td>
<td>661</td>
<td>528</td>
<td>449</td>
<td>397</td>
<td>359</td>
<td>330</td>
<td>307</td>
<td>286</td>
<td>270</td>
<td>217</td>
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<tr>
<td>1 1/2&quot;</td>
<td>1993</td>
<td>1404</td>
<td>1143</td>
<td>988</td>
<td>884</td>
<td>805</td>
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<td>656</td>
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<tr>
<td>2&quot;</td>
<td>4638</td>
<td>3285</td>
<td>2684</td>
<td>2327</td>
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<td>1647</td>
<td>1554</td>
<td>1475</td>
<td>1205</td>
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**For reference only. Please consult gas pipe manufacturer for actual pipe capacities.

**TracPipe® is a registered trademark of Omega Flex.

### Maximum Capacity for Gas Flex Connectors in Cubic Feet per Hour of Natural Gas (0.60 Specific Gravity, 0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>12&quot;</th>
<th>24&quot;</th>
<th>36&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>180</td>
<td>150</td>
<td>125</td>
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<td>86</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>290</td>
<td>255</td>
<td>215</td>
<td>197</td>
<td>173</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>581</td>
<td>512</td>
<td>442</td>
<td>397</td>
<td>347</td>
<td></td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>1470</td>
<td>1200</td>
<td>1130</td>
<td>960</td>
<td>930</td>
<td></td>
</tr>
</tbody>
</table>

### Maximum Capacity for Gas Flex Connectors in Thousands of Btuh Liquefied Petroleum (0.5" WC Pressure Drop)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>12&quot;</th>
<th>24&quot;</th>
<th>36&quot;</th>
<th>48&quot;</th>
<th>60&quot;</th>
<th>72&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>288</td>
<td>240</td>
<td>200</td>
<td>169</td>
<td>149</td>
<td>137</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>465</td>
<td>409</td>
<td>344</td>
<td>315</td>
<td>278</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>930</td>
<td>825</td>
<td>708</td>
<td>638</td>
<td>556</td>
<td></td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>2352</td>
<td>1920</td>
<td>1808</td>
<td>1536</td>
<td>1488</td>
<td></td>
</tr>
</tbody>
</table>

**For reference only. Please consult gas pipe manufacturer for actual pipe capacities.
This appliance suitable for potable water and space heating applications. Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and replace any part of the control system and gas control which has been under water.

If the water heater is installed in a closed water supply system, such as one having a backflow preventer in the cold water supply line, means shall be provided to control thermal expansion. Contact the water supplier or a local plumbing inspector on how to control this situation.

A pressure relief valve must be installed near the hot water outlet that is rated in accordance with and complying with either The Standard for Relief Valves and Automatic Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22, or The ANSI/ASME Boiler and Pressure Vessel Code, Section IV (Heating Boilers). This pressure relief valve must be capable of an hourly Btu rated temperature steam discharge of 190,000 Btuh. Multiple valves may be used. The pressure relief capacity must not exceed 150 psig. No valve shall be placed between the relief valve and the water heater. The relief valve must be installed such that the discharge will be conducted to a suitable place for disposal when relief occurs. No reducing coupling or other restriction may be installed in the discharge line. The discharge line must be installed to allow complete drainage of both the valve and the line. If this unit is installed with a separate storage vessel, the separate vessel must have its own temperature and pressure relief valve. This valve must also comply with The Standard for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22 (in the U.S. only). A temperature relief valve is not required, but if one is used, do not install the valve with the probe directly in the flow of water. This may cause unwarranted discharge of the valve.

Piping and components connected to the water heater shall be suitable for use with potable water. Toxic chemicals, such as those used for boiler treatment, shall not be introduced into the potable water. A water heater used to supply potable water may not be connected to any heating system or components previously used with a nonpotable water heating appliance.

When water is required in one part of the system at a higher temperature than in the rest of the system, means such as a mixing valve shall be installed to temper the water to reduce the scald hazard.

- Flush water through the pipe to clean out metal powder, sand and dirt before connecting it.
- Take appropriate heat insulation measures (e.g., wrapping with heat insulation materials, using electric heaters) according to the climate of the region to prevent the pipe from freezing.
- Use a union coupling or flexible pipe for connecting the pipes to reduce the force applied to the piping.
- Do not use piping with a diameter smaller than the coupling.
- When feed water pressure is too high, insert a depressurizing valve, or take water hammer prevention measure.
- Avoid using joints as much as possible to keep the piping simple.
- Avoid piping in which an air holdup can occur.
- If installing the unit on a roof:
  - About lower-level hot water supply
    If the unit is installed on a roof to supply water to the levels below, make sure that the water pressure supplied to the unit does not drop below 29 psi. It may be necessary to install a pump system to ensure that the water pressure is maintained at this level.
    Check the pressure before putting the unit into operation. Failure to supply the proper pressure to the unit may result in noisy operation, shorter lifetime of the unit, and may cause the unit to shut down frequently.

Supply water piping
- Do not use PVC piping.
- Mount a check valve and a shut off valve (near the inlet).
- In order for the client to use the water heater comfortably, 98.1 to 491 kPa (14 to 70 PSI) of pressure is needed from the water supply. Be sure to check the water pressure. If the water pressure is low, the water heater cannot perform to its full capability, and may become a source of trouble for the client.

Drain piping
- Expansion water may drop from the pressure prevention device and wet the floor. If necessary, provide drain piping or use a drain hose to remove the water.

Hot water piping
- Do not use lead or PVC piping.
- The longer the piping, the greater the heat loss. Try to make the piping as short as possible.
- Use mixing valves with low water resistance. Use shower heads with low pressure loss.
- If necessary, use a pump or other means to ensure that the supply water pressure to the inlet of the heater does not fall below 29 PSI when the maximum amount of water is being demanded. Also install a pressure meter on the inlet. If this is not done, local boiling will occur inside the water heater causing abnormal sounds and decreasing the durability of the heat exchanger.
10. Plumbing Applications

Recirculation System

- Cold Water Supply
- NORITZ N-069M-OD
- N-063S-OD
- Shutoff Valve
- Expansion Tank
- Check Valve
- Pressure Relief Valve
- Drain
- Hot Water Return
- Pump Control Signal
- (N-069M-OD) (See notes for Sizing)
- Aquastat (N-063S-OD)
- (For N-069M-OD, Use Aquastat if Unit Isn’t Controlling Pump)
- 8-10 Gal.
- Storage Tank
- (To Alleviate Cold Water Sandwich)
- Aquastat Wiring
- Use Honeywell Aquastat
  (Model L6006A or L6006C)
- Pump
- Fixtures
- 105
- R
- B
- W
- Neutral
- Ground
- Live
- Pressure Relief Valve
- Hot Water Shutoff Valve
- Drain
- Air Scoop
- (Optional)
- Temp. & Press. Gauge
- (Optional)
- Hydronic Heat Exchanger or Radiant Heat Piping
- Pressure Reducing Valve
- (Optional)
- Backflow Preventer
- (Optional)
- Hot Water Return
- Pump
- Check Valve
- Aquastat
- (Use Aquastat if Unit Isn’t Controlling Pump)
- Heating Controls
- For Baseboard Applications: Please contact Noritz for compatibility.

Heating System

- Cold Water Supply
- NORITZ N-069M-OD
- N-063S-OD
- Shutoff Valve
- Expansion Tank
- Check Valve
- Pressure Relief Valve
- Drain
- Hot Water
- Boiler Drain Valve
- Hydronic Heat Exchanger or Radiant Heat Piping
- Temp. & Press. Gauge
- (Optional)
- Backflow Preventer
- (Optional)
- Pressure Reducing Valve
- (Optional)
- Pump
- Check Valve
- Aquastat
- (Use Aquastat if Unit Isn’t Controlling Pump)
- Heating Controls
- For Baseboard Applications: Please contact Noritz for compatibility.

For Space Heating Purposes:
If the system requires water for space heating at a higher temperature than for other uses, means such as a mixing valve shall be provided to temper the water for the other uses to help prevent scalding.

N-069M-OD
N-063S-OD

Cold Water Supply
Tempered Potable Hot Water
Mixing Valve
Hot Water for Heating
11. Electrical Wiring

Consult a qualified electrician for the electrical work.

Do not connect electrical power to the unit until all electrical wiring has been completed.

This appliance must be electrically grounded in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70. In Canada, the latest CSA C22.1 Electrical Code.

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

Field wiring to be performed at time of appliance installation.

Caution

Do not turn on the power until the electrical wiring is finished. This may cause electrical shock or damage to the equipment to occur.

- The electrical supply required by the water heater is 120V AC at 60 Hz.
  The power consumption may be up to 125W or higher if using optional accessories.
  Use an appropriate circuit.
- Do not disconnect the power supply when not in use. When the power is off, the freeze prevention in the water heater will not activate, resulting in possible freezing damage.
- Do not let the power cord contact the gas piping.
  Tie the redundant power cord outside the water heater. Putting the redundant length of cord inside the water heater may cause electrical interference and faulty operation.

Ground

- To prevent electrical shock, provide a ground with resistance less than 100Ω. An electrician should do this work.
- A grounding screw is provided on the back of the junction box lid.
  Do not connect the ground to the city water or gas piping. Do not tie the ground to a telephone line.

Breaker Installation

- Mount a device which shuts off the electrical path automatically (leakage breaker) when electrical leakage is detected.

1. Unscrew the junction box lid and open.
2. Push the power cord through the bottom of the unit.
3. Connect the live and neutral wires to the black and white wire in the junction box.
4. Screw the ground wire to the ground screw on the back of the junction box lid and close junction box.
Remote Controller

- Applicable Model

<table>
<thead>
<tr>
<th>Remote controller</th>
<th>RC-7646M-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-069M-OD, N-063S-OD (option)</td>
<td></td>
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</tbody>
</table>

Install the remote controller according to the instructions in the Installation Guide (p. 58).

- The N-069M-OD can be programmed so that it will default to one of four temperatures if the remote controller is removed (176, 140, 130, 120°F). To change the default temperature, the remote controller must be initially installed, and removed after programming.

* Changing the default temperature setting:

1. Within the first ten minutes of connecting electrical power to the unit, but before pressing the Power On/Off button, hit the up [▲] or down [▼] button on the remote controller. This will put the unit into maintenance writer mode. If pressing either of these buttons does not put the unit into maintenance writer mode, unplug the unit for sixty seconds and try again.

2. The maintenance monitor item number will flash on the display. (the initial item number will be “99”).

3. The up [▲] and down [▼] buttons can be used to change the maintenance writer item number.

4. Choose a temperature from the chart below and set the 14 and 15 maintenance writers according to the chart. Pressing the Flow Meter Alarm Set button for 0.5 seconds will switch the indicated item number from “OFF” to “ON” or “ON” to “OFF”. If the Priority lamp is flashing when an item number is displayed, this indicates an “ON” setting for that item number, and if the Priority lamp is off, the item number is off.

   *Do not change the other item numbers. This may cause a fault in the water heater.

5. After setting the 14 and 15 item numbers for the desired temperature, press and hold the up [▲] and down [▼] buttons together for five seconds to confirm the new settings. The remote controller will emit a tone when the settings are confirmed. If this is not done, the unit will not put the setting changes into effect. After confirming the setting, remove the remote controller to initiate the default temperature setting.

Note: The setting changes can be cancelled by pressing the Power On/Off button before confirming the settings, or if the unit is left alone for ten minutes without confirming the settings. If the default setting needs to be changed again, disconnect the electrical power to the unit, reconnect it and follow this procedure again.

---

<table>
<thead>
<tr>
<th>Temp.</th>
<th>Item No.</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>176°F</td>
<td></td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>140°F</td>
<td></td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>130°F</td>
<td></td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>120°F*</td>
<td></td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

* Factory Default Setting
Connecting Remote Controller Cord to Unit

- Keep the remote controller cord away from the freeze prevention heaters in the unit.
- Tie the redundant cord outside the water heater. Do not put the extra length inside the equipment.
- The remote controller cord can be extended up to 300' with 18AWG wire.
- Use a Y type terminal with a resin sleeve. (Without the sleeve, the copper wire may corrode and cause problems).
- Be sure to hand tighten when screwing to the terminal block. Power tools may cause damage to the terminal block.

Remote controller cord

- For extensions, a 26' cord can be purchased (Part # RC-CORD26) or use 18AWG wire.
- Install according to the National Electrical Code and all applicable local codes.

1. Leave enough slack so that the remote controller cord will not be damaged if the unit is removed from the wall.
2. Remove the front cover of the heater (4 screws).
3. Pass the remote controller cord through the wiring throughway and into the unit.
4. Connect the Y terminals at the end of the remote controller cord to the terminal block.
5. Secure the remote controller cord with a clamp.
6. Replace the front cover.

Changing Set Temperature (Not using the remote controller for N-063S-OD)

1. Disconnect power to the heater.
2. Remove the front cover of the heater (4 screws).
   - To set the temperature to 130°F
     Remove the connector with 130°F tag.
   - To set the temperature to 140°F
     Remove the connector with 140°F tag.
3. Replace the front cover of the heater (4 screws).
4. Reconnect power to the heater.
Connecting the pump control wire

1. Leave enough slack so that the pump control wires will stay connected if the unit is removed from the wall.
2. Remove the front cover of the heater (4 screws).
3. Cut off the connector at the end of the pump control wires.
4. Wire the pump control wires through the wiring throughway and connect them to the wiring inside the pump (this will be the power supply for the pump, do not also connect 120 V to the pump). If a large pump is being used (greater than 85W) use the voltage from these wires as the signal to close a normally open relay through which 120 V will be supplied directly from a wall circuit to the pump.
5. Replace the front cover.

Relay connection with larger pumps (>85 W)

1. Locate and prepare the pump control wires as described above.
2. Choose a suitable installation location for the relay where it will be protected from moisture.
3. Connect the pump control wires from the heater to the signal input on the relay.
4. Cut one of the electrical supply leads and wire it across the open terminals of the relay.
5. Secure all connections and replace the front cover of the heater.
12. Maintenance

Periodically check the following to ensure proper operation of the water heater.

- The burner flame must be checked periodically for a proper blue color and consistency.
- If the flame does not appear normal, the burner may need to be cleaned.
- The burner needs to be cleaned, it must be performed by a qualified service technician.
- Do not obstruct the flow of combustion and ventilation air.
- The pressure relief valve must be operated once a year to ensure that it is functioning properly and there is no obstruction. Turn the power off to the unit before opening the relief valve, and make sure that water draining out of the valve will not cause any damage.
- If the relief valve discharges periodically, it may be due to thermal expansion in a closed water system. Contact the water supplier or a local plumbing inspector on how to correct this situation.
- Do not plug the relief valve.
- See Operation Manual for further maintenance.

Warning: There is a scald potential if the output temperature is set too high.

Should overheating occur, or the gas supply fail to shut off, turn off the manual gas control valve to the appliance.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

Periodically check and clean the filter inside the cold water inlet of the unit.

13. Trial Operation

The installer should test operate the unit, explain to the customer how to use the unit, and give the owner this manual before leaving the installation.

- Preparation ............ (1) Open a hot water fixture to confirm that water is available, and then close the fixture.
(2) Open the gas supply valve.
(3) Turn on the power supply. Using the remote controller, turn on the Power On/Off button (the Operation lamp will turn on).

(1) Open a hot water fixture and confirm that the Burner On lamp comes on, and that hot water is being produced. (If necessary, repeat until the air in the gas piping is bled out).

* White smoke may be noticed from the exhaust vent during cold weather. However, this is not a malfunction of the unit.

* If an “11” error code appears or a Burner On indicator flashes on the remote controller, turn the unit off and then back on again, and then open a hot water fixture again.

(2) Change the temperature setting on the remote controller and check that the water temperature changes.

- If the water heater does not operate normally, refer to “Troubleshooting” in the Operation Manual.
- After the trial operation, clean the filter in the cold water inlet.

<If installed with a quick connect multi-system>

- Turn the system power ON with the remote controller.
- Slowly open a hot water fixture and check that the units ignite sequentially. Check to see that the hot water temperature is the same as the temperature displayed on the remote controller (*)

* If both units do not ignite, switch which unit will ignite first by pressing the Max. or Min. Manifold Pressure Set Button on the circuit board (see p. 56). (*)

Unit A Ignoes  
Unit B Doesn't Ignite  
Press Max. or Min. Manifold Pressure Set Button on Unit B  
Unit A Doesn't Ignite  
Unit B Ignoes

* If an 11 or F11 error code flashes on the remote controller, hit the Power Button on the remote controller off and on 2 - 3 times.

* If (*) and (**) cannot be done, the Quick Connect Cord may not be properly connected. Check that the cord is properly connected.
Lighting Instructions
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.
1. Read the safety information in the installation manual or on the front of the water heater.
2. Turn off all electrical power to the unit.
3. Do not attempt to light the burner by hand.
4. Turn the gas control manual valve (external to the unit) clockwise to the off position.
5. Wait five minutes to clear out any gas. If the smell of gas remains, stop, and follow the instructions on page 3 of this manual.
6. Turn the gas control manual valve counterclockwise to the on position.
7. Turn on electric power to the unit.
8. The unit will now operate whenever hot water is called for. If the unit will not operate, follow the shutdown instructions and call a service technician.

Shutdown Instructions
1. Stop any water demand.
2. Turn off electric power.
3. Turn the gas control manual valve clockwise to the off position.

Should overheating occur, or the gas supply fail to shut off, turn off the manual control valve to the appliance.

发热器使用说明

此热水器没有火塞。它装有自动点火装置。切勿尝试用手点燃燃烧器。
1. 阅读安装说明书中的安全信息或热水器前方的安全信息。
2. 关闭所有电力供应。
3. 切勿尝试用手点燃燃烧器。
4. 将燃气控制手动阀（外部）顺时针旋转到关闭位置。
5. 等待五分钟以排出燃气。如果闻到燃气，停止并按本手册第3页的说明操作。
6. 将燃气控制手动阀逆时针旋转到开启位置。
7. 重新开启电力供应。
8. 一旦热水被要求，热水器将开始运作。如果热水器不运作，请遵循指示并联系维修技工。

在试验操作后处理

如果该装置不立即使用，关闭所有的燃气和水关闭阀门，将热水器和系统中的水全部排出，然后放空燃气管线。

警告

- 将燃气控制手动阀逆时针旋转到关闭位置。
- 如果发生过热，或燃气供应失败，请关闭手动控制阀。

在试验操作后处理

- 如果该装置不立即使用，关闭所有的燃气和水关闭阀门，将热水器和系统中的水全部排出，然后放空燃气管线。
14. Dimensions

N-069M-OD

N-063S-OD
Connecting Quick Connect Cord

**Caution**

The wire coloring on the Quick Connect Cord will not be the same as the wire coloring of the connection plug inside the unit.

* The remote controller can be connected to either unit A or B.

Connecting the Quick Connect Cord to the two units.

1. Turn off the power.
2. Remove the front cover of the heater (4 screws).
3. Pass the Quick Connect Cord through the wiring throughway and into the unit.
4. Plug the connector on the Quick Connect Cord to the receptacle inside the unit.
5. Attach the ground wire of the Quick Connect Cord to the terminal block fixing plate. (If the ground wire is not attached, electrical noise may cause problems).
6. Secure the Quick Connect Cord with a clamp.
7. Replace the front cover.
Remote Controller RC-7646M-2

Installation Guide

NORITZ AMERICA CORPORATION

For Installers:
Read this installation guide carefully before carrying out installation.

Note
Do not connect power to the water heater before the remote controller has been properly installed.

Included Parts List

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Controller</td>
<td>1</td>
</tr>
<tr>
<td>Wall Packing</td>
<td>1</td>
</tr>
<tr>
<td>Phillips Roundhead Wood Screw</td>
<td>2</td>
</tr>
<tr>
<td>Wall Anchor</td>
<td>2</td>
</tr>
</tbody>
</table>

Connection of Remote Controller Cord

- White Connector ➔ To Remote controller
- Y-shaped terminals ➔ To Water heater (two-core)

Notes on the Installation Location
- The remote should be installed in an easily accessible location.
- Avoid installing in a place where water may splash on the controller.
- Avoid locations where special chemical agents (e.g., benzene, fatty and oily detergents) are used.
- Avoid outdoor installation, or installation in an indoor location where it will be exposed to direct sunlight.

* Confirm the connection with the labels at both ends of the remote controller cord.
* A 26’ cord can be purchased separately (Part # RC-CORD26).
* The remote controller cord can be extended up to 300 ft. by splicing the cord and using 18 gauge wire to extend the cord to the appropriate length.
**Installation**

1. Apply Wall Packing to the rear side of the remote controller.
2. Connect the remote controller wires to the separate remote controller cord.
3. Remove the cover of the remote control, mark the location of the screw holes, and drill holes for the wall anchors.
4. Insert the wall anchors, screw the remote control to the wall and replace the cover.
Installing the Remote Controller Outdoor Junction Box

1. Insert the remote controller wires through the wall pipe and secure the wall pipe to the remote controller. Locate the remote controller wall packing, slide it over the pipe and wires, and apply it to the rear side of the remote.

2. Drill a $1\frac{1}{4}^\text{"}$ hole in the wall where the remote controller will be installed.

   * Do not install the remote controller in a location that is exposed to moisture, direct sunlight, or chemical agents. These can damage the remote controller.

3. Insert the wall pipe containing the remote controller wires through the hole.

4. Slide the junction box packing and the junction box over the remote controller wires and wall pipe protruding from the outside wall.

5. Slide the box nut over the remote controller wires and screw it onto the wall pipe.

6. Connect the remote controller wires to the separate remote controller cord inside the box. Wind the excess remote controller wire on the provided hooks as illustrated below.

   (Wind the excess wire here.)

7. Close the junction box.
Automatic Instantaneous Water Heater
NORITZ AMERICA CORPORATION
25172 Arctic Ocean Dr. Suite 102, Lake Forest CA 92630
Tel: (949) 420-0409
Model: N-069M-OD
Type of Gas: Natural Gas
BTU Input: Max. 190,000 ~ Min. 25,000
Recovery Rate: 189 Gallons/Hour
Inlet Gas Pressure: Min. 4 ~ Max. 10.5 inches
Manifold Gas Pressure: Min. 0.6 ~ Max. 2.4 inches
Electrical Rating: AC 120 Volts 60Hz
Max. Water Pressure: Min. 15psi ~ Max. 150psi
ANSI Z21.10.3

FOR YOUR SAFETY
Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.

REQUIRED CLEARANCES TO COMBUSTIBLES

<table>
<thead>
<tr>
<th>Clearance</th>
<th>Outdoor Install</th>
<th>Indoor Install</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top of heater</td>
<td>36 inches</td>
<td></td>
</tr>
<tr>
<td>Back of heater</td>
<td>0 inch</td>
<td></td>
</tr>
<tr>
<td>Front of heater</td>
<td>24 inches</td>
<td></td>
</tr>
<tr>
<td>Side of heater</td>
<td>6 inches</td>
<td></td>
</tr>
</tbody>
</table>

SERIAL NUMBER @@@@@. @@ - @@@@@@@

Made in JAPAN NR99 +++++

61
WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

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 of 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.
OPERATING INSTRUCTIONS

1. STOP! Read the safety information above.
2. Turn off all electric power to the appliance.
3. Do not attempt to light the burner by hand.
4. Turn the gas control manual valve (installed on the gas supply line external to the unit) clockwise to the position.
5. Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.
6. Turn the gas control manual valve (installed on the gas supply line external to the unit) counterclockwise to the full ON position.
7. Turn on all the electric power to the appliance.
8. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

TO TURN OFF GAS TO APPLIANCE

1. Turn off all electric power to the appliance if service is to be performed.
2. Turn the gas control manual valve (installed on the gas supply line external to the unit) clockwise to the full OFF position.

DANGER

Flammable Vapors

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 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.

DANGER

Hot Water Heater temperature over 125 °F 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.

WARNING: 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.

A temperature and pressure relief valve listed as complying with the standard for Relief Valve and Automatic Gas Shutoff Devices for Hot Water Supply System, ANSI Z21.22, shall be installed at the time of installation of the heater in the location specified by the manufacturer. Local codes shall govern the installation of relief devices for safety operation of the water heater. The relief valve must not be removed or plugged.