

GAS-FIRED DIRECT VENT BOILER

User's Information Manual

Model NH-2001-DV
NH-1501-DV



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.

Thank you for purchasing this Noritz Gas-Fired Direct Vent Boiler.
Before using, please:

Read this manual completely for operation instructions.

Completely fill out the warranty registration card (included separately) and mail the detachable portion to Noritz America Corporation.

Keep this manual (and the remainder of the warranty registration card) where it can be found whenever necessary.

Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54 or CAN/CSA B149.1.

Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.

NORITZ America Corporation



Low NO_x
Approved by
SCAQMD



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 boiler and must be understood and observed. Potential dangers from accidents during installation and use are divided into the following four categories. Closely observe these warnings; they are critical to your safety.

Icons warning of risk level



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



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Other icons

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



DANGER



Prohibited

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

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

Keep flammable products:

1. Far away from the boiler.
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.



Be sure to do.

When the boiler is used as the heat source for an indirect storage tank, the temperature of the water will be 140°F - 180°F (60°C - 83°C). Install an anti-scald mixing valve on the hot water supply side of the indirect tank to prevent scalding.



Prohibited

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

Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering.

(Continued)

(Continued)



Prohibited

Do not remove or block the installed safety relief valve for safe operation of the boiler.



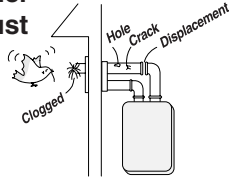
Prohibited

Do not use the hot water supplied by the boiler for drinking purposes.



Prohibited

Do not use the boiler if the intake/ exhaust pipe is displaced, has holes is clogged, or is corroded.



Prohibited

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

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

WARNING



No flame.

A. This boiler 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 boiler area for evidence of leaking gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS.

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

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

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



Be sure to do.

When a gas leak is noticed:

1. Stop use immediately
2. Close the gas valve
3. Open windows and doors



Be sure to do.

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

1. Turn off the heating system
2. Turn off the power to the boiler
3. Turn off gas, return/supply valve.
4. Call the nearest Noritz agent



Prohibited

Explosion Hazard ;

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

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



Be sure to do.

Should overheating occur or the gas supply fail to shut off, do not turn off or disconnect the power supply to the boiler. Instead, shut off the external gas supply valve to the boiler.

(Continued)

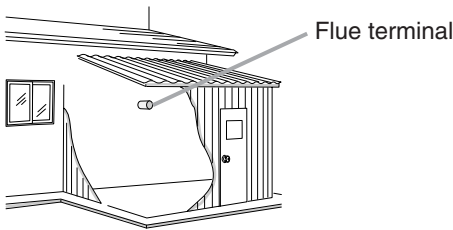
Important Safety Information-2

(Continued)



Prohibited

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



Carbon monoxide poisoning or fire may occur as a result.



Prohibited

Do not use combustible chemicals such as oil, gasoline, benzene etc. in the near the boiler or the flue terminal.



Prohibited

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



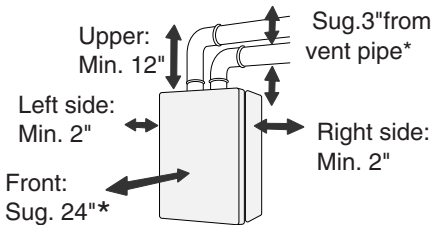
Prohibited

Do not place or use a spray can near the boiler or the flue terminal.



Be sure to do.

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

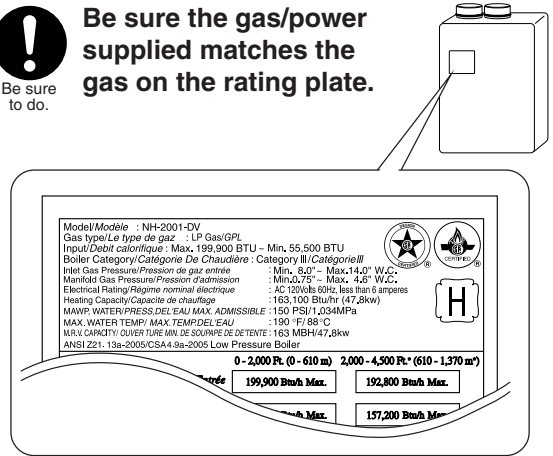


* Indicates suggested clearances for maintenance.



Be sure to do.

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



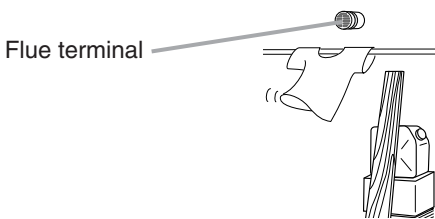
Prohibited

Carbon Monoxide Poisoning Hazard. Do not install this boiler in a mobile home, recreation vehicle or on a boat.



Prohibited

Do not place combustibles such as laundry, newspapers, oils etc. near the boiler or the flue terminal.



Be sure to do.

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



Prohibited

If this unit will be installed in a beauty 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.



Prohibited

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



Don't touch with a wet hand.



Electric Shock.

Do not touch the power cord with wet hands.



Prohibited

Do not place outdoors

Rain may enter the unit or the burner fire may be blown by the wind, causing malfunction or fire as a result.



Prohibited

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

Outdoor

(Continued)

(Continued)



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



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

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.

CAUTION



Be sure to electrically ground the unit.

Ground.



Do not turn off the boiler while someone is bathing.



Keep power cord free of dust.

Be sure to do.



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



Do not use this boiler as a direct hot water heating device. It should only be used for space heating or with an indirect storage tank.

Prohibited



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



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.

Prohibited

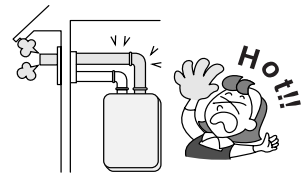


Do not touch the flue terminal and exhaust vent pipe during or immediately after operation of the boiler.



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

Be sure to do.



Do not remove the power plug.

When the power plug is inserted, the unit automatically operates the circulation pump for several seconds when the unit has not been used for approximately 15 days to prevent the circulation pump from malfunctioning due to build-up of lime deposits.

Be sure to do.



Replace the boiler water once every 2 years with anti-freeze specified by Noritz.

- Not replacing the boiler water will cause rusting and freezing, resulting in damage to the device and radiator. Repairs resulting from deterioration of the anti-freeze are not covered by the warranty.
- For replacement of the boiler water, contact the installer or a qualified service technician. Costs for the replacement of the anti-freeze are not covered by the warranty.

Be sure to do.

Important Safety Information-3

CAUTION

Keep the area around the unit clean.

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

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

Treat hard, acidic or otherwise impure supply water with approved methods to ensure full warranty coverage.

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

Check ignition during use and extinction after use.

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

This unit is only approved for installation up to 4500 ft. above sea level.

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

Do not disassemble the operation panel.

Do not use benzene, oil or fat detergents to clean the operation panel.

This may cause deformation.

Do not splash water on the operation panel. Do not expose the operation panel to steam.

Preventing damage from freezing (☞ p.16)

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

Take necessary measures to prevent freezing of water and leakage of gas when leaving the unit unused for long periods of time. (☞ p.16)

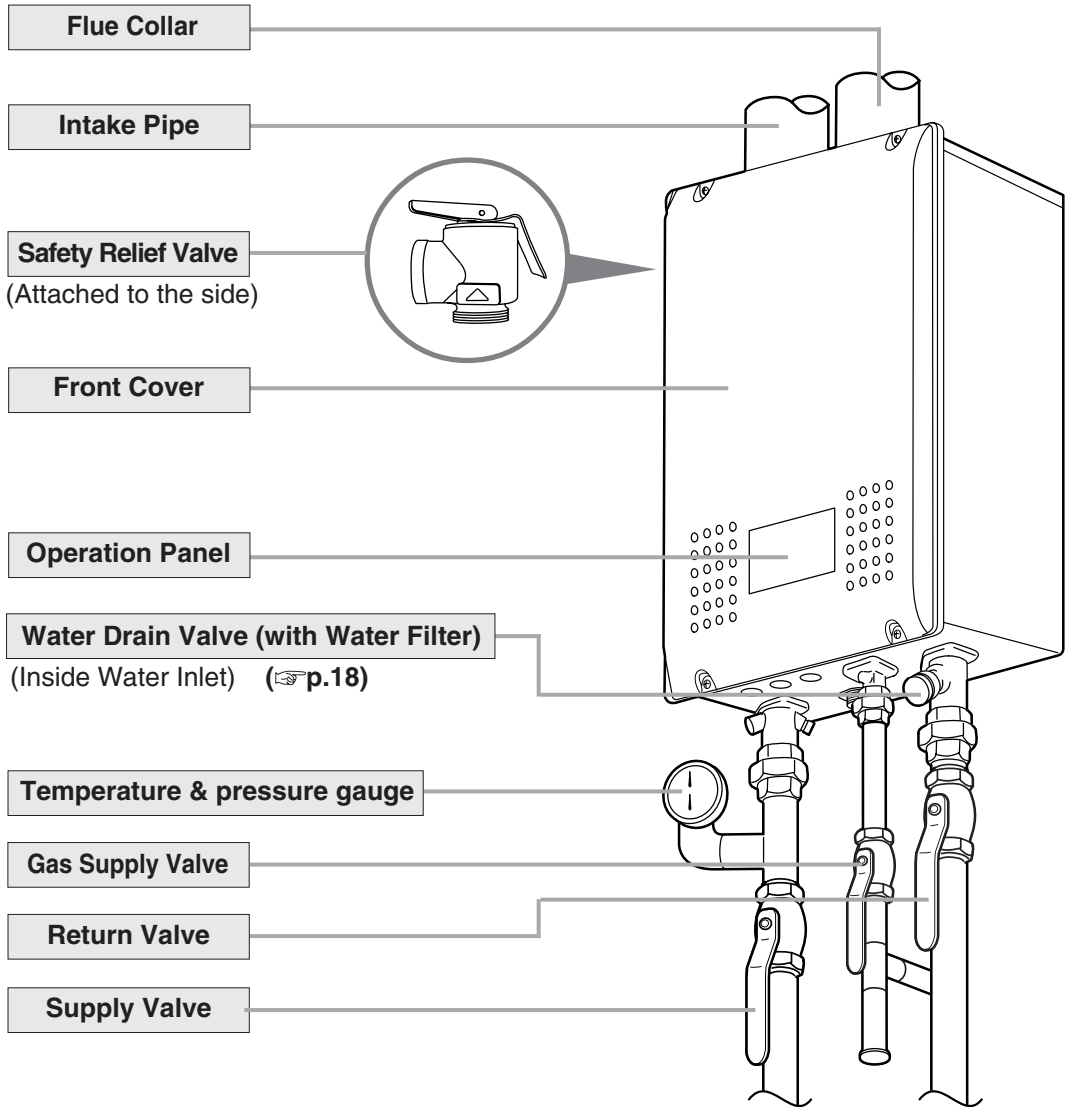
If it is snowing, check the flue terminal for blockage.

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General Parts

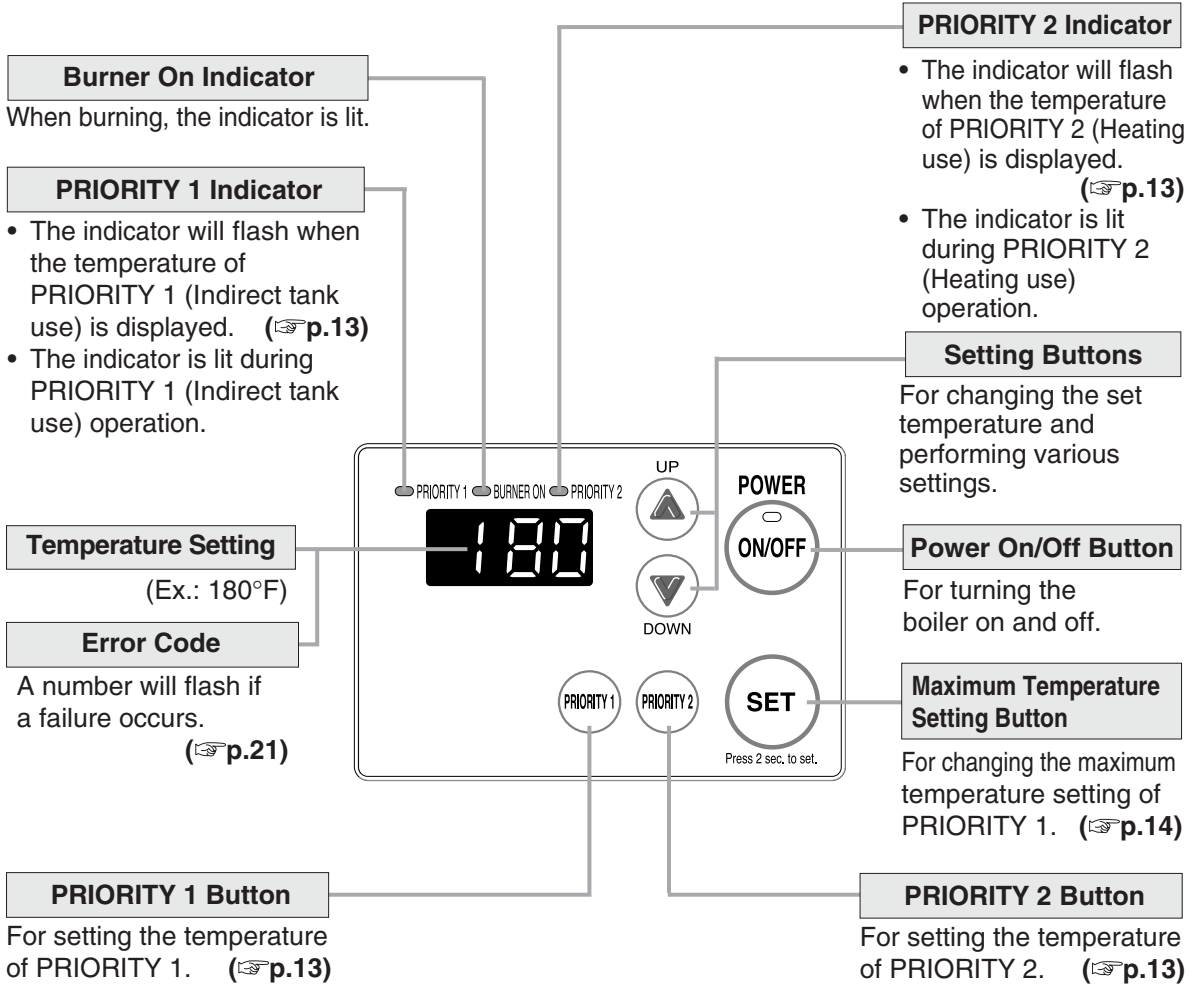
Main Unit



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

Operation Panel (RC-7648M)

What is actually displayed depends on how the boiler is set.



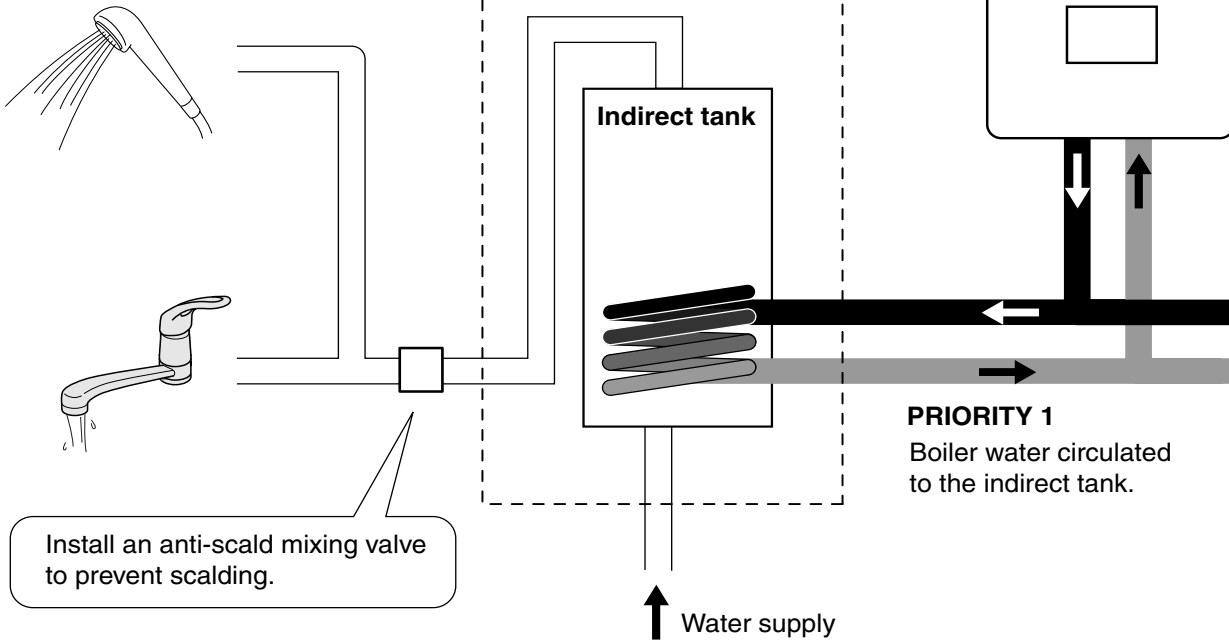
* Before use, remove the protective sheet from the remote controller surface.

Schematic

* Below is simplified diagram of the hydronic heating system. Direction of the pipes, location of installation and the number of terminals will vary depending on the household.

Circulates boiler water to the indirect tank and heating system.

Refer to the operation manual of the hot-water tank for proper installation of the tank and piping connections.



DANGER



High Temperature

To prevent scalding:

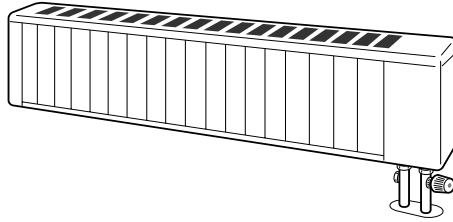
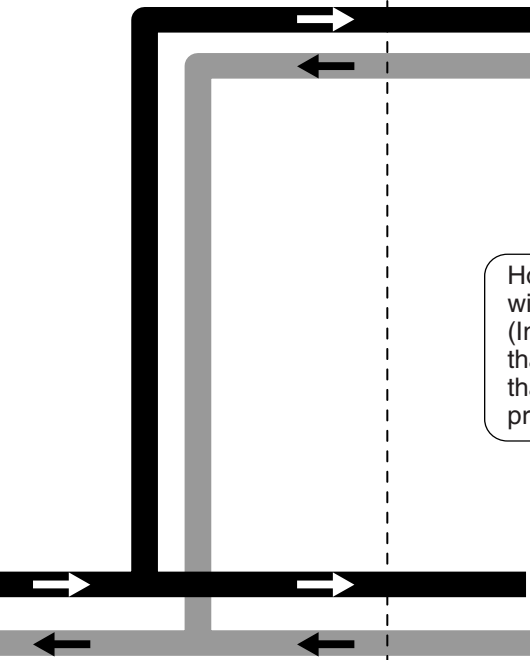


Be sure to do.

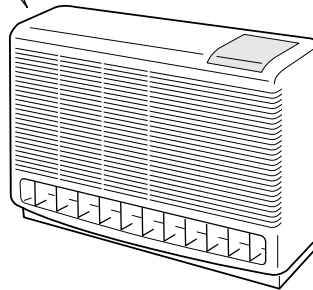
When the boiler is used as the heat source for an indirect storage tank, the temperature of the water will be 140°F - 180°F (60°C - 83°C). Install an anti-scald mixing valve on the hot water supply side of the indirect tank to prevent scalding.



Refer to the operation manual of the heating system for proper installation and operation specifics.



Hot-water supply to PRIORITY 2 (Heating use) will stop during operation of PRIORITY 1 (Indirect tank use). When using a heating system that draws air from the outdoors, it is recommended that a backdraft prevention device be installed to prevent cold air from entering the space.



PRIORITY 2
Boiler water circulated to the heating system.



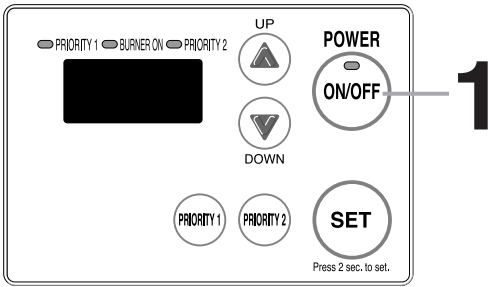
Prohibited

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

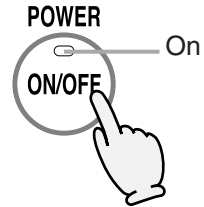
Children, disabled and elderly are at the highest risk of being scalded. Feel water temperature before bathing or showering.

Operation method

(Starting with the Power Off).

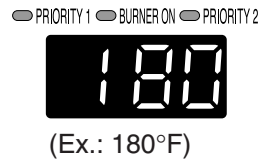


1 Press the Power On/Off Button.



When the Power button is set to On, the boiler will automatically start the circulator when the temperature of the hot water in the indirect tank drops, or when the heating switch of a room thermostat is turned on.

The temperature will be PRIORITY 1, displayed on the operation panel thermostat.



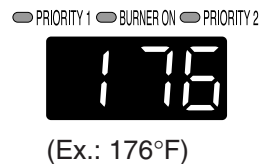
Shows the Operation panel displayed.

When the Power On/Off button is set to On, the temperature of the boiler water of PRIORITY 1 (Indirect tank use) is normally displayed.



When heating operation is started.

The temperature of the boiler water of PRIORITY 2 (Heating use) is displayed.



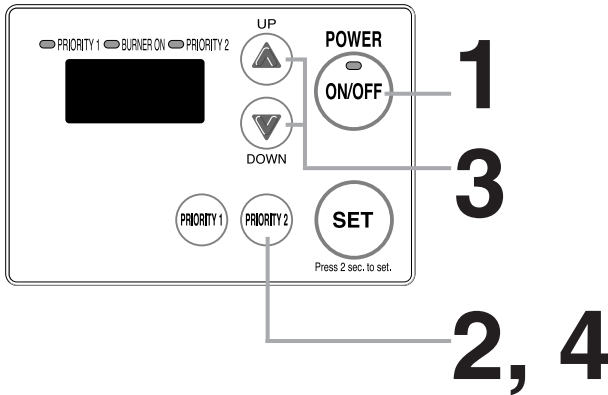
When the heating stops, or indirect tank operation is started.

Display returns to the temperature of the boiler water of PRIORITY 1 (Indirect tank use).

How to Use

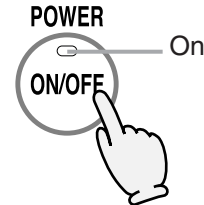
Setting the boiler water temperature

(Starting with the Power Off).



Temperatures of boiler water for PRIORITY 1 and PRIORITY 2 can be stored.

1 Press the Power On/Off Button.



The temperature will be PRIORITY 1, displayed on the operation panel thermostat.

PRIORITY 1 BURNER ON PRIORITY 2



(Ex.: 180°F)

2 Press the desired button. (Ex.: PRIORITY 2)

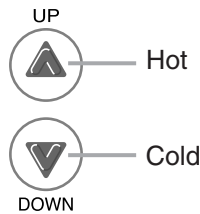


Flashing
PRIORITY 1 BURNER ON PRIORITY 2



Current temperature setting of PRIORITY 2. (Ex.: 170°F)

3 Set temperature.



PRIORITY 1 BURNER ON PRIORITY 2



(Ex.: 176°F)

4 Press the button pressed in 2 again.



The display returns to the temperature of PRIORITY 1.

PRIORITY 1 BURNER ON PRIORITY 2



* The display will also return to the temperature of PRIORITY 1 when no buttons are pressed for approximately 10 seconds. (Changes are memorized)

[Standard temperature of boiler water]

= Initial factory setting

Fahrenheit (°F)	140	145	150	155	160	165	170	176	180
Centigrade (°C)	60	65	70	75	80	83			

* The above is to be used only as a guide. Actual temperatures will differ depending on the season, length of pipes, etc.

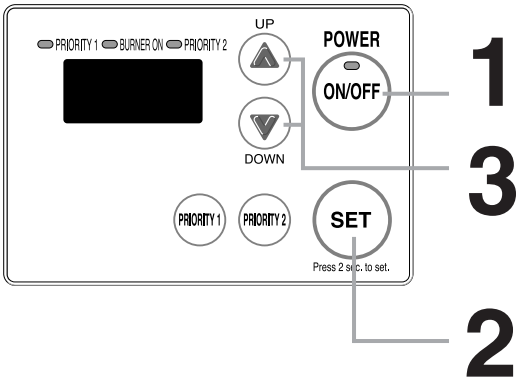
* The upper limit (maximum temperature) of PRIORITY 1 can be changed.

Do not set the temperature of PRIORITY 1 below the set temperature of the aquastat on the indirect storage tank.

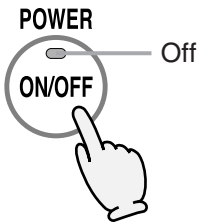
Setting the temperature of PRIORITY 1 below the temperature setting of the aquastat will cause PRIORITY 2 to stop due to continuous operation of PRIORITY 1. The heating system will not operate under this condition. (P20)

How to Use

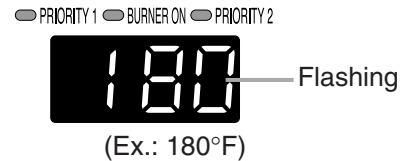
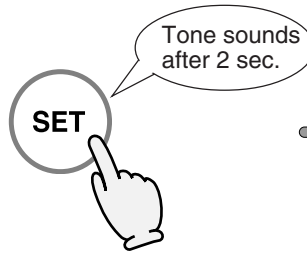
Adjusting the Maximum temperature of PRIORITY1



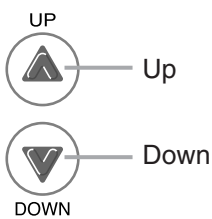
1 Turn off the Power.



2 Press and hold the maximum temperature setting button until a tone is heard (2 seconds).



3 Change the temperature using the setting buttons.



[For Fahrenheit]

PRIORITY 1 BURNER ON PRIORITY 2



(Ex.: 176°F)

Temperature can be changed to 140°F, 145°F, 150°F, 155°F, 160°F, 165°F, 170°F, 176°F or 180°F.

[For Centigrade]

PRIORITY 1 BURNER ON PRIORITY 2

"1:" is displayed at the head of the temperature.

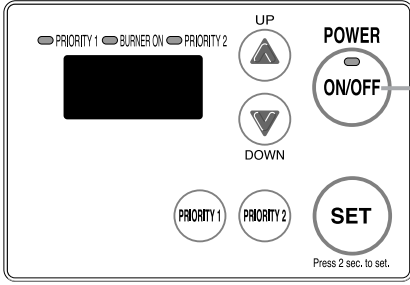


(Ex.: 80°C)

Temperature can be changed to 60°C, 65°C, 70°C, 75°C, 80°C, 83°C.

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

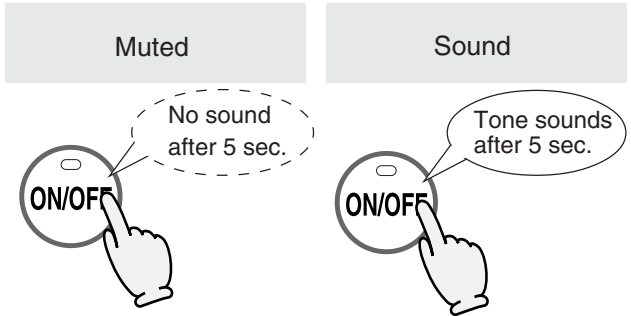
How to mute / beep the operation sound



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

* Initial factory setting is with sound

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



Preventing Damage from Freezing

CAUTION

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

Perform the following to prevent freezing

■ Do not remove the power plug

Freezing cannot be prevented when the power plug is disconnected. Also, take measures to protect exposed piping by using insulation, heat tape, or electric heaters. When in doubt, contact your installer.

■ Do not close the gas valve

The unit will automatically operate (combust) to warm the water within the circuit to prevent freezing.

Note: Freezing of water within the circuit may not be prevented depending on the heating system. For details, contact your installer.

Perform the following when not using the boiler for an extensive period

Check the label on the front cover of the device to see if anti-freeze has been added, then perform the measures indicated below as needed.

When there is anti-freeze

1. Set the Power button to Off.
2. Close the gas valve.
3. Remove the power plug.

<When reusing>

1. Insert the power plug.
2. Open the gas valve.

When there is no anti-freeze

Contact your installer.

<When reusing>

Contact your installer.

Regular Maintenance-1

Periodic Inspection

CAUTION



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

Be sure to do.

Check

For laundry, newspaper, timber, oil, spray cans and other combustible materials.

Check

For dust and soot in the flue terminal.

Check

For abnormal sounds during operation.

Check

For abnormalities in external appearance, discoloration or flaws.

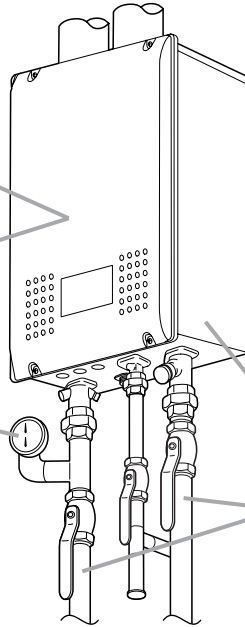
Check

For a proper pressure gauge reading. (Normal value: 15 psi)

Boiler water must be replenished if the pressure is 8 psi or less. Contact your installer or a qualified service technician.

Check

For water leaks from the equipment and piping.



Expansion tank

Inspect the expansion tank once a year for proper air pressure within the tank. Follow the instructions of the expansion tank manufacturer. For inspection, contact your installer or a qualified service technician.

Safety Relief Valve

Inspect the safety relief valve once a year to see if the valve works correctly. For inspection, contact your installer or a qualified service technician.

Recommended periodic inspection

For prevention of unforeseeable accidents and for the longer service life of this product, periodic inspection by a specialist is recommended once a year even if there are no problems with the operation of this unit. For inspection, contact your installer or a qualified service technician.

Regular Maintenance-2

Periodic Maintenance

Equipment

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

Operation panel

Wipe the surface with a wet cloth.

Do not use benzene, oil or fatty detergents to clean the operation panel;
deformation may occur.

When Using Anti-Freeze

Replace anti-freeze once every 2 years with anti-freeze specified by Noritz.
Not replacing the anti-freeze will cause rusting and freezing, resulting in damage to the device and radiator.
For replacement of the anti-freeze, contact the installer or a qualified service technician.
Repairs resulting from deterioration of the anti-freeze are not covered by the warranty.

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 water drain valve.
For cleaning the water drain valve, contact your installer or a qualified service technician.

Troubleshooting-1

Initial Operation

Unit attempts to ignite but fails.

- Perform operation again after setting the Power On/Off button to Off and then back to On. There may be air in the gas line.
- Have a professional check the gas supply pressure.

Temperature

Hot water is not available when a fixture is opened.

- Is the gas valve, return valve and supply valve fully 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 with debris? (☞p.18)
- Is the pressure gauge reading normal? (☞p.17)
- Is the power button turned on?
- The hot water of the indirect tank may have been fully used. Wait for several minutes until the water in the tank becomes hot.
- See the operation manual of the indirect tank or heating system.
- Can the sound of the pump be heard? If not, there may be a malfunction. Contact your installer or a qualified service technician.

Setting temperature cannot rise.

- Is the maximum temperature setting of PRIORITY 1 appropriate. (☞p.14)

Operation Panel

The light on the power button does not come on.

- Has there been a power failure?
- Is the power connected properly?

The panel cannot be used.

- There is a possibility that the unit has malfunctioned. Contact your installer or a qualified service technician.

Combustion indicator is lit even when the Power button is set to Off.
Combustion indicator is lit even when the heating is not being used.

- The pump automatically operates for combustion to prevent freezing.

The plastic on the surface or buttons of the remote controller has torn, peeled, or air bubbles inside.

- The surface of the remote controller is affixed with a protective sheet (to prevent surface scratching, etc.) at time of shipment. This sheet can be removed or left as it is. When leaving the protective sheet on, areas frequently touched may tear or peel. However, the remote controller will not malfunction from water entering such torn or peeled areas. To restore the appearance of the remote controller surface, simply remove the protective sheet.

Troubleshooting-2

Heating

The room does not get warm.
The heating does not operate.

- Is the gas valve, return valve and supply valve fully 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 with debris? (☞p.18)
- Is the pressure gauge reading normal? (☞p.17)
- Is the power button turned on?
- See the operation manual of the indirect tank or heating system.
- Is the heating switch of a room thermostat turned on?
- Has PRIORITY 1 been running for an extensive period?
In this case, the set temperature of the aquastat controlling the indirect tank may be higher than the set temperature of this unit. Contact your installer.
- Can the sound of the pump be heard? If not, there may be a malfunction. Contact your installer or a qualified service technician.

The heating turns off by itself during heating and there is no warm air.

- PRIORITY 2 (Heating use) will stop even during operation when PRIORITY 1 (Indirect tank use) operation starts. (☞p.11)

Sounds

The fan can be heard after operation is stopped.

- These noises indicate the proper operation of devices which are designed to let the unit reignite more quickly, and ensure temperature of the boiler water is stable.

Rotating sound.
(low humming sound.)

- The sound is from the pump operating to prevent freezing.
- The unit automatically operates the pump for several seconds when the unit has not been used for approximately 15 days to prevent the pump from malfunctioning due to build-up of deposits.

Other

The heating stops burning during operation.

- Is the gas valve, return valve and supply valve fully 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?)

(Continued)

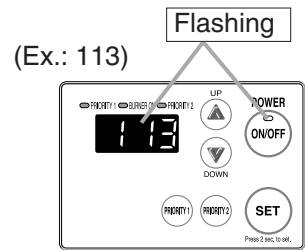
(Continued)

White smoke comes out of the exhaust vent on a cold day.	<ul style="list-style-type: none"> This is normal. The white smoke is actually steam.
The boiler water is leaking from the safety relief valve.	<ul style="list-style-type: none"> There is a possibility that air is leaking from the expansion tank. Contact your installer or a qualified service technician.
PRIORITY 1 continuously operates and does not switch to PRIORITY 2.	<ul style="list-style-type: none"> The set temperature of the aquastat controlling the hot-water tank may be higher than the set temperature of this unit. Contact your installer.

Check for an Error Code on the Operation Panel

If there is a problem with the unit, a numerical error code will flash on the operation panel.
If this occurs, take appropriate measures as listed below.

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



Error Code	Cause	Action
113	Ignition error	<ol style="list-style-type: none"> Set the Power On/Off button and heating operation to Off. Check the items below and take measures if necessary. Is the gas valve open? Has the gas meter cut off the supply of gas? In the case of LP gas, has the gas run out? Set the Power On/Off button and heating operation to On to start heating operation. Operation is normal if there is no display.
903	Device combustion abnormality	In the case the unit cannot be reset after setting the Power On/Off button to Off and back to On, or when the error display persists even when resetting the boiler, service must be performed. Contact Noritz America to arrange for a qualified service technician.
103	Capacity is dropped for safe operation due to intake/exhaust abnormality	The unit can continue to be used with a drop in capacity; however, inspection is recommended for safety.
993	Device combustion abnormality	Service must be performed. Contact Noritz America to arrange for a qualified service technician.

Contact Noritz America if:

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

Follow-up Service

Requesting Service

First follow the instructions in the troubleshooting section (☞ p.19 to p.21).
If the error is not corrected, contact Noritz America Technical Support at 866-766-7489.

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 boiler 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 within ten (10) years of the date of original installation.

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 America 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.

Specifications

Item		Specification	
Model Name		NH-2001-DV	NH-1501-DV
Type	Installation Air Supply/Exhaust Heating method	Indoor Wall Mounted Direct Vent / Sealed Combustion Closed type hot-water circulation method	
Ignition		Direct Ignition	
Operating Pressure		15-150 psi	
Safety valve setting pressure		30 psi	
Amount of boiler water used		4-17 GPM (bypass minimum-flow rate: 2.5GPM)	
Dimensions		24.2"(Height) x 18.3"(Width) x 9.4"(Depth)	
Weight		65.3 lbs.	
Water Holding Capacity		0.4 Gallon	
Connection Sizes	Supply	1 "	
	Return	1"	
	Gas Inlet	3/4"	
Power Supply	Supply	120 VAC (60Hz)	
	Consumption (*)	NG : 97W LP : 111W	NG : 93W LP : 93W
Materials	Casing	Zincified Steel Plate/Polyester Coating	
	Flue Collar	Stainless Steel	
	Heat Exchanger	Copper Sheetting, Copper Tubing	
Safety Devices		Flame Rod, Thermal Fuse, Lightning Protection Device (ZNR), Overheat Prevention Device, Freezing Prevention Device, Fan Rotation Detector, Boil-dry Safety Device, Boil-dry Protection Device, Overcurrent Protection Device	
Accessories		Pressure & Temperature Gauge, Safety Relief Valve (valve, fitting, and gasket), Anchoring Screws, Terminals	

* The values listed are for the boiler only.

The maximum current draw by the unit with 2 pumps connected will be 6 amperes or less.

Performance

Item			NH-2001-DV	NH-1501-DV
Gas Consumption	NG	Maximum Performance	199,900 btuh	150,000 btuh
		Minimum Performance	55,500 btuh	55,500 btuh
	LP	Maximum Performance	199,900 btuh	150,000 btuh
		Minimum Performance	55,500 btuh	55,500 btuh
AFUE	NG		82.7%	83.0%
	LP		83.0%	82.8%
Standard output			45,500-163,100 btuh	45,500-122,400 btuh
Temperature Settings		Fahrenheit	140-170°F (In 5°F intervals), 176, 180°F (9 Options)	
		Centigrade	60-80°C (In 5°C intervals), 83°C (6 Options)	