

Installation Notes

Before installing this Combi Boiler, be sure to read the Installation Manual and Owner's Guide. The following items must be verified prior to completion of the installation.

1. Check the gas type




DANGER

Verify that gas supply type matches the gas type listed on the rating plate. Improper gas type may result CARBON MONOXIDE POISONING.





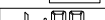





2. Set the Service Reminder





The Combi Boiler is equipped with a Service Reminder to announce for maintenance. The factory default of this Service Reminder is OFF. The customer or installer needs to set the Service Reminder to ON or OFF. Refer to the Installation Manual.

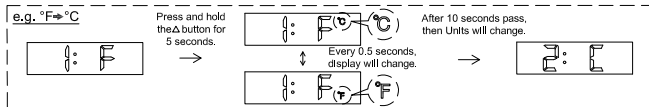
3. Set the temperature and flow rate units on the Operation Panel

The factory default is °F & GPM. This function will appear within the first 10 minutes of connecting electrical power and before pressing the  button.

<Units Setting>

1. Press the  button. Select  using the  buttons, and then press the  button.
2. Display will change to . After 1 sec. , then press the  button.
3. To change the unit.
 $^{\circ}\text{F} \rightarrow ^{\circ}\text{C}$: Press and hold the  button for approximately 5 seconds.
 $^{\circ}\text{C} \rightarrow ^{\circ}\text{F}$: Press and hold the  button for approximately 5 seconds.
4. Press the  button to exit the function.

Procedure 1	Procedure 2	Procedure 3 <u>Units Choices</u> (Factory Setting is Shaded)	
			
		°F / Gal (Fahrenheit / Gallon)	°C / L (Celsius / Liter)



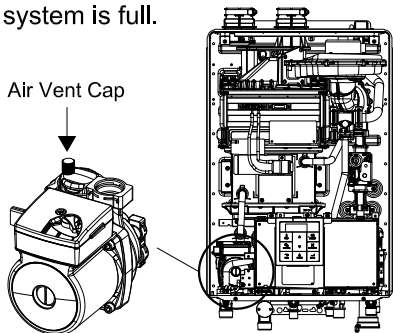
4. Set the Heating Temperature and the DHW Temperature

Change the Heating Temperature setting and the DHW Temperature setting on the Operation Panel. Refer to the Installation Manual.

5. Remove residual air from the system

This Combi Boiler has a built-in air vent inside to remove air from the heating system.

Before filling the Combi Boiler, loosen the Air Vent Cap to allow the system to fill properly. Tighten the cap when the system is full.



CAUTION

Loosen Air Vent Cap before filling the System. The System will not be properly filled if the Air Vent Cap is not loosened. Air in the system may cause malfunctions and system overheating.

NOTE

This Combi Boiler is equipped with an auto feeder valve. Therefore, installation of additional system water fill connection is not necessary in most cases.

* If the heating system does not require the Auto Feeder (the internal water feeder) operation or when using freeze protection products, plug the Auto Feeder Water Inlet Connection and set "Auto Feeder Activation" OFF. Refer to the Installation Manual for changing "Auto Feeder Activation" Setting.

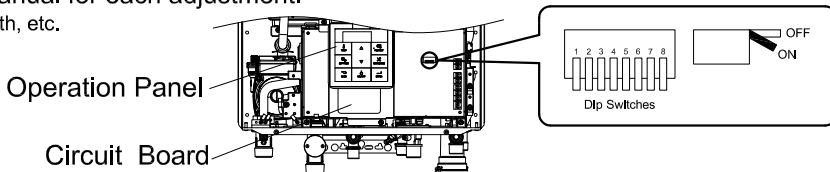
6. Adjust the Dip Switches

This Combi Boiler has some Dip Switches for proper unit operation.

Dip Switches must be changed depending on the installation condition*.

Refer to the Installation Manual for each adjustment.

* Elevation, Vent size, Vent length, etc.



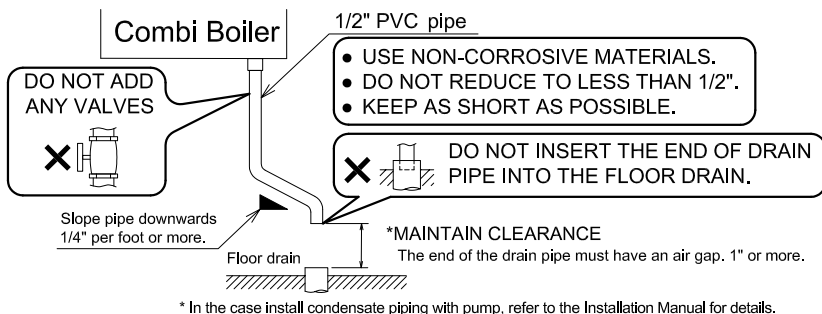
7. Condensate Piping



CAUTION

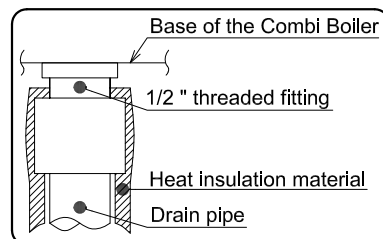
Due to the acidic nature of condensate, be sure to properly drain and if necessary, treat the condensate prior to disposal. Damage caused by improperly handled condensate is not covered by the warranty.

- This Combi Boiler is a high efficiency, fully condensing Combi Boiler which produces acidic condensate during operation. The unit incorporates a collection and removal system which must be properly drained in order to ensure proper operation of this unit.
- Take measures to prevent the condensate drain lines from freezing. (insulation, heat tape, electric heaters, etc.).

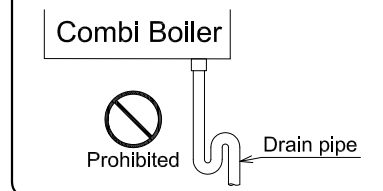


NOTICE

If the drain line becomes clogged or frozen, condensate will back-up into the Combi Boiler and a "90" error code will flash on the Operation Panel, ceasing operation. The condensate will be discharged by gravity force only. When there is not slope downwards of drain pipe enough, it will cause clogging ("90" error).



Do not pitch the drain line up once a horizontal section has been introduced. Always pitch the drain line down to ensure proper drainage.



8. Filling the condensate container with water



DANGER

Prior to initial start up, make sure that you fill the condensate container with water. This is to prevent dangerous exhaust gases from entering the building. Failure to fill the condensate container could result in severe personal injury or death.

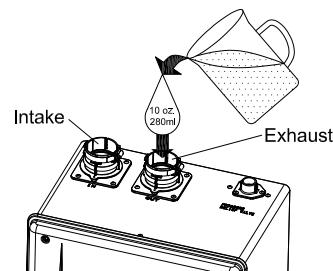
The condensate container can be filled with water before connecting the vent pipe.
Filling the condensate container before vent pipe installation.

- 1) Fill the condensate container by pouring approx. 10 oz. (280 ml) of water into exhaust flue on the top of the appliance as illustrated right.

Or, if the vent pipe has already been installed:

- 2) After installing the drain pipe, make sure that the area around the appliance is well ventilated; open a window or a door if necessary. Then, operate the Combi Boiler and verify that condensate is coming out of the drain pipe.

(During normal use of the Combi Boiler, condensate will begin to discharge from the drain pipe within 15 minutes of use. However, depending on the season and / or installation site condition, it may take longer.)



e.g.) NRCB199DV(GHQ-C3201WX-FF US)

9. Verify proper operation and to prevent damage from freezing

- Before connecting the cold water supply line to the Combi Boiler, open the water supply valve and flush out any pipe shavings, flux, dirt, etc. from the water pipe.
- Make sure that the vent system is gas tight and will not leak, and there are no water leaks from pipes.
- Verify proper operation of the Combi Boiler by performing "Trial Operation" procedures as outlined in the Installation Manual.
- After performing the test operation, perform the following insulation measures for prevention of freezing. Refer to the Installation Manual.
- If the unit will not be used immediately, close off all gas and water shutoff valves, drain all of the water out of the unit and the plumbing system to prevent the unit and system from freezing, and bleed the gas out of the gas line. Refer to the Owner's Guide for the procedure for draining the water.
 - * Freezing is not covered by the warranty.
- If you are draining water, catch the discharge water in a container to prevent water from slipping on to the floor.

PLEASE RETURN THE "OWNER'S GUIDE" TO THE CUSTOMER AFTER INSTALLATION.