

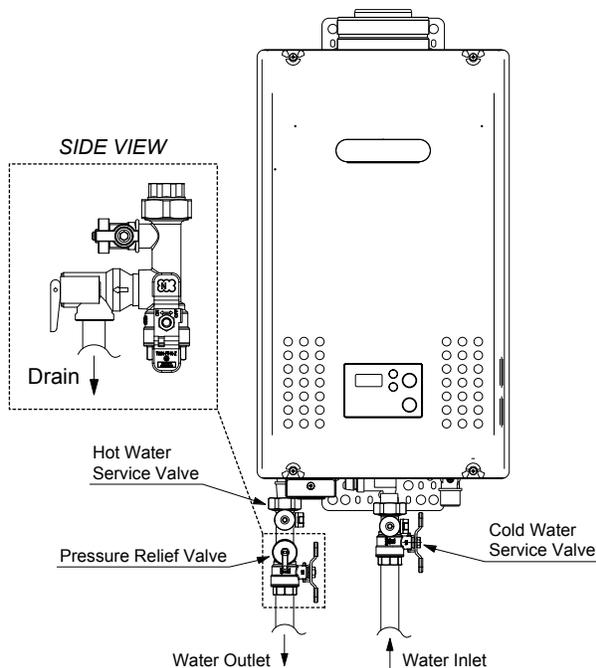
**IK-WV-200-1 (3/4" - CSA 500,000 BTU/hr RELIEF VALVE)**

**Installation Instructions:**

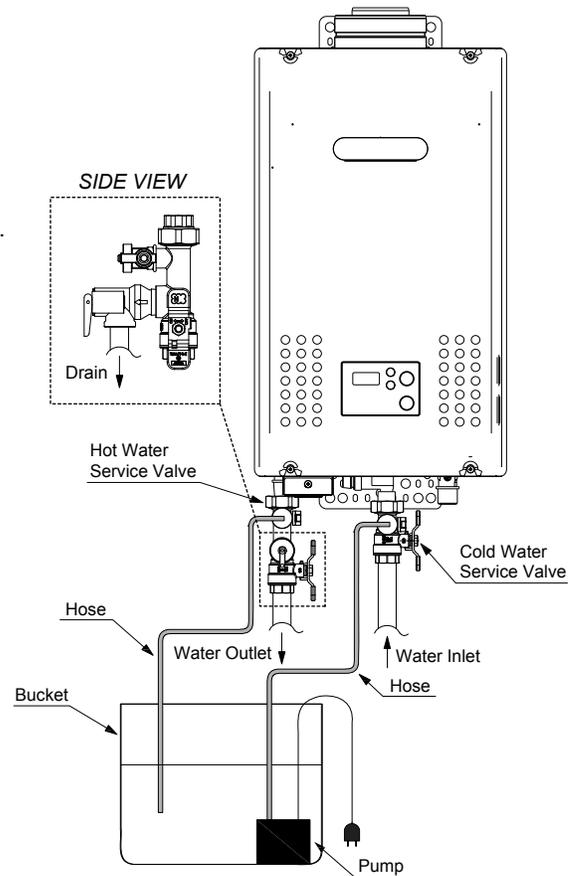
1. The HOT water service valve will have a red drain valve lever handle and a 3/4" threaded outlet for the pressure relief valve. Install the included pressure relief valve using Teflon® tape into the 3/4" threads adjacent to the drain valve lever handle.
2. Loosen the union assembly on the valve and connect the 3/4" fitting to the hot water outlet of the heater using Teflon® tape.
3. Tighten the union assembly to service valve making sure that the union nut is securely connected to the fitting and that the rubber o-ring is securely in place.
4. The COLD water service valve will have a blue drain valve lever handle. Loosen the union assembly from the valve and connect the 3/4" fitting to the cold water inlet of the heater using Teflon® tape.
5. Tighten the union assembly on the valve making sure that the union nut is securely connected to the fitting and that the rubber o-ring is securely in place.
6. Connect the COLD water service valve to the cold water supply piping.
7. Connect the HOT water service valve to the hot water supply piping.
8. The drain valve lever handles should be in the closed position (lever perpendicular to the drain portion of the body) during normal operation. Do not rely on the drain cap to stop the water from draining. Always remove the drain caps slowly to ensure that no pressure exists.

**Water Heater Flush Procedure:**

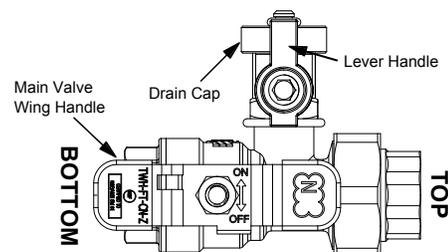
1. If not already on, turn the unit on with the Power Button on the Remote Controller. If no Remote Controller is installed, ensure that electrical power is supplied to the unit.
2. Close the gas supply valve.
3. Close both the hot and cold water valves with a quarter turn of the main valve wing handle. The handle will be perpendicular to the main valve body.
4. Ensure the drain valve lever handles are closed on both the hot and cold valve (the lever will be perpendicular to the drain portion of the body) and slowly remove the drain caps.
5. Connect the pump outlet hose to the cold water drain valve on the service valve as shown in **Figure 3**.
6. Connect a drain hose to the hot water drain valve outlet on the service valve as shown in **Figure 3**.



**Figure 2. Completed Installation**



**Figure 3. Flush Procedure**



**Figure 1. Valve Detail (Cold Water Valve shown)**

## Water Heater Flush Procedure (Continued)

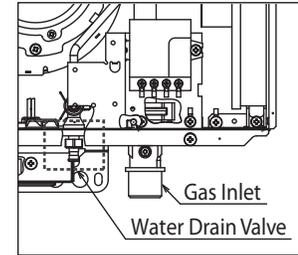
7. Pour approximately 5 gallons of virgin food grade white vinegar or a solution of Lime Away or CLR and water (diluted 3 parts water to 1 part Lime Way or CLR) into a bucket.
8. Place both the pump inlet hose and the drain outlet hose into the bucket.
9. Open both drain valve lever handles on the service valves.
10. Turn the pump on. The unit will attempt to ignite and a number 11 should flash on the remote controller after about 1 minute. Do not reset the unit. Allow the solution to circulate for 45 minutes.

**NOTE:** *It may take a few minutes to clear air out of the heater and hoses.*

11. Turn the pump off and close the cold water drain valve of the service valve.
12. Remove the hose from the cold water drain valve and replace the drain cap onto the drain valve outlet.
13. Remove the pump and hose from the bucket and empty the solution.
14. Put the hot water drain hose end back into the empty bucket and open the cold water main valve handle. This procedure will flush out the heater with fresh cold water. Flush for at least 5 minutes or until 20 gallons of water has passed through the heater.

**NOTE:** *For NRC and NCC Series condensing models, carefully unscrew the water drain valve from the bottom of the water heater near the gas inlet to flush any residual solution from the system (see Figure 4). The system will be under pressure and the drain valve will only require a couple of turns to allow sufficient flow from the drain. Place a bucket under the unit and flush for about 10 seconds. Attempting to remove the drain valve completely could result in an excessive leak.*

15. Close the cold water main valve handle and clean the water inlet filter. Place the filter back into the unit.
16. Close the hot water drain valve lever handle, remove the drain hose and replace the drain cap onto the hot water drain valve outlet.
17. Open both the hot and cold water main valve handles. Handles should now be (OPEN) parallel to the main valve body and lever handles should be (CLOSED) perpendicular to the drain portion of the body, which is the normal operating position.
18. Open the gas supply valve and reset the unit by turning the power off and then on again using the Power Button on the Remote Controller. If no Remote Controller is installed, disconnect, then reconnect electrical power to the unit in order to reset the system.



**Figure 4. Water Drain Valve on Condensing Models**

## Diagnostic and Testing Procedures:

1. The full port characteristics of the service valves allow full diagnostic testing of your system.
2. Be certain that the drain valve lever handle of the hot water valve is closed (the lever will be perpendicular to the drain portion of the body) before you begin to avoid injury or damage.
3. Slowly remove the drain cap. You may now connect a hose to the drain valve and begin testing of the system.

**NOTE:** *Water discharged from the drain valve can be at high temperatures. Use caution when draining water out of a hose and into an open area.*

4. Because of the full flow characteristics of the service valve, you may now perform flow rate, temperature, and gas pressure testing. This should be done by either the installer or an authorized Noritz service representative. Contact Noritz for further information.

## LIMITED WARRANTY AND DISCLAIMER

Noritz America Corporation ("the Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, Noritz America will, at its option, replace or recondition the product without charge. THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product. Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.



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