

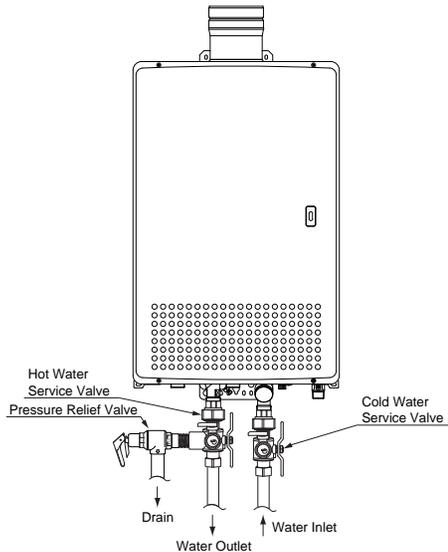
**IK-WV-9 (1" - 2.7 MILLION BTUH RELIEF WITH CLOSE NIPPLE)**

**Installation Instructions:**

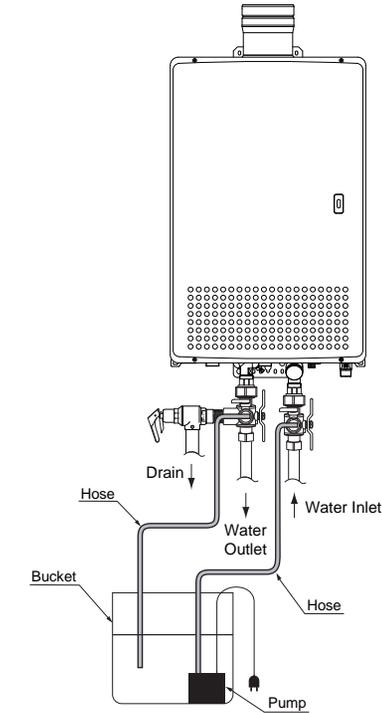
1. The HOT water Isolator EXP service valve will have a red insulating ring and a 3/4" threaded outlet for the pressure relief valve opposite the wing handle. Install the included pressure relief valve and close nipple using Teflon® tape into the 3/4" threads adjacent to the drain valve lever handle.
2. Loosen the union assembly on the valve and connect the 1" fitting to the hot water outlet of the heater using Teflon® tape.
3. Tighten the union assembly to Isolator EXP valve making sure that the union nut is securely connected to the fitting and that the rubber washer is securely in place.
4. The COLD water Isolator EXP service valve will have a blue insulating ring. Loosen the union assembly from the and connect the 1" 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 valve and that both the blue insulating ring and rubber washer are securely in place.
6. Connect the 1" connection on the COLD water Isolator EXP service valve to the cold water supply piping.
7. Connect the 1" connection on the HOT water Isolator EXP 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:**

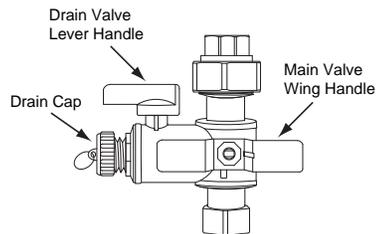
1. If not already on, turn the unit on with the Power Button on the Remote Controller. If no Remote Controller is installed, ensure that electrical power is supplied to the unit.
2. Close the gas supply valve.
3. Close both the hot and cold water valves with a quarter turn of the main valve wing handle. 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 valves (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 of the EXP valve as shown in **Figure 3**.
6. Connect a drain hose to the hot water drain valve outlet of the EXP 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 EXP 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 EXP 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.
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.

**Diagnostic and Testing Procedures:**

1. The full port characteristics of the Isolator EXP valves allow full diagnostic testing of your system.
2. Be certain that the drain valve lever handle of the hot water EXP 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 Isolator EXP 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.