TECHNICAL BULLETIN 59

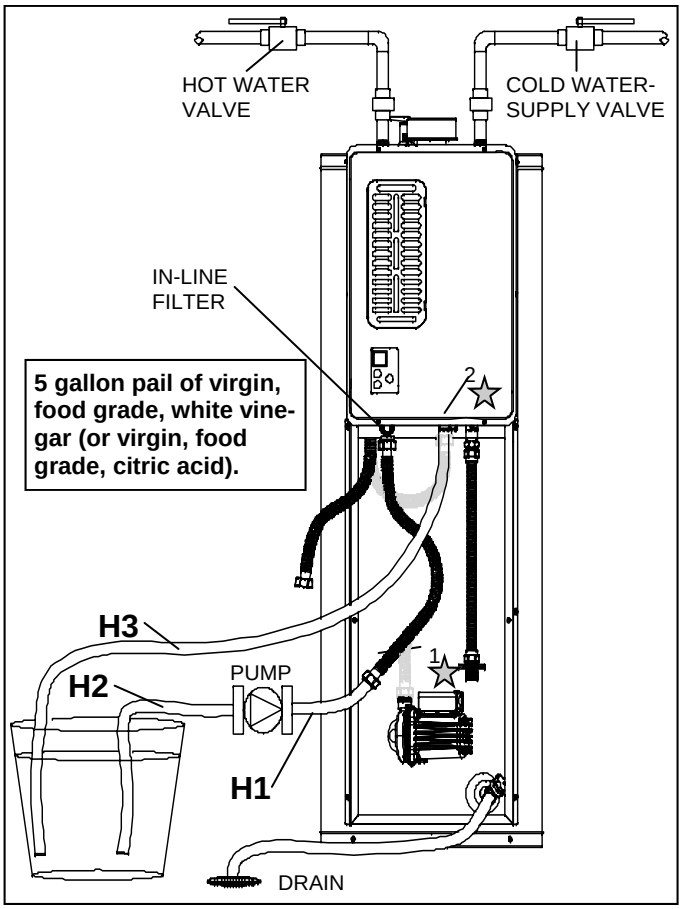
RH165 Heat Exchanger Flush Procedure

Use the following procedure to flush the heat exchanger of lime or scale build up. Damage caused by lime build-up is not covered by the unit's warranty. After flushing, reset any error codes by turning off the power to the unit and turning the power back on.

1. Disconnect electrical power to the water heater.
2. CLOSE the cold water supply valve. Leave the hot water valve and a hot water fixture OPEN to remove pressure from the system.
3. Connect one end of a hose to the drain valve on the tank and direct the other end to a drain. OPEN the drain valve.

NOTICE	Do not continue until all water has drained from the tank.

4. Remove the (3/4" NPT) return fitting 1☆ (see figure) at the pump. Connect pump outlet hose (H1) to the (3/4" NPT) return fitting. (Note: The tankless unit will still contain approximately 1/2 gallon of water. Prepare a bucket to catch this water.)
5. Remove the (3/4" NPT) supply fitting 2☆ (see figure) at the tankless unit. Connect drain hose (H3) to the (3/4" NPT) supply fitting at the bottom of the tankless unit.
6. Pour approximately 4 gallons of virgin, food grade, white vinegar or citric acid into pail.
7. Place the drain hose (H3) and the hose (H2) to the pump inlet into the cleaning solution.
8. Operate the pump and allow the cleaning solution to circulate through the water heater for at least 45 minutes.
9. Turn off pump
10. Rinse the cleaning solution from the water heater as follows:
    a. Disconnect pump outlet hose (H1) from the (3/4" NPT) return fitting. Connect the (3/4" NPT) return fitting to the pump.
    b. Disconnect drain hose (H3) from the (3/4" NPT) supply fitting at the bottom of the tankless unit. Connect the (3/4" NPT) supply fitting at the tankless unit.
    c. CLOSE THE DRAIN VALVE
    d. Open the cold water supply valve until water flows from the hot water fixture (See Step 2).
    e. Close the cold water supply valve.
    f. Connect power to the water heater and turn the temperature down to set point 1.
    g. Allow the water heater to run for 5 minutes.
11. Drain the water heater (See Step 3)
12. Remove, clean and replace the in-line filter.
13. CLOSE THE DRAIN VALVE.
14. Open the cold water supply valve until water flows from the hot water fixture (See Step 2).
15. Close the hot water fixture and inspect the appliance and plumbing for leaks.



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