



Plumbing | Preventative Maintenance Programs

YOUR TASK: De-lime a tankless water heater.

Periodic inspection of the condition and performance of a water heater can catch small problems early before they blossom into larger, more complicated, and expensive repairs. In this exercise, you will perform a water heater tune-up for a tankless gas water heater.

Tasks below may be omitted if your company does not perform them.

Recommended equipment for this exercise:

- Screwdriver
- Nut driver 1/4"
- Washing Machine Hoses (3)
- 5-gallon bucket
- Transfer or circulation pump (with hose connections)
- Suitable cleaning chemical(s) such as white vinegar
- Channel Lock Pliers
- Appropriate PPE for the tasks performed.
- Adjustable wrench
- Leak detector (bubbles or electronic)
- Vacuum
- Manometer (analog or digital)

COMPLETING THE TASK SUCCESSFULLY

Always use the proper PPE for the tasks performed!	
Place the unit out of service Disconnect power, turn off the gas and close isolation valves for unit.	<input type="checkbox"/>
Connect pump and prepare chemicals Use an appropriate amount of chemical to clean the unit. Connect hoses to pump and to the tankless unit. Begin circulation.	<input type="checkbox"/>
Inspect the inside of the cabinet Remove the cover to expose the working components of the unit. Look for any signs of leaks.	<input type="checkbox"/>

<p>Clean filters</p> <p>If filters are present in the fresh air supply to the unit, remove and clean any lint or build-up that may be present. Remove the filter screen from the cold water feed and inspect and clean it if necessary.</p>	<input type="checkbox"/>
<p>Relief Valve</p> <p>This device is the safety of this appliance and MUST be in proper working order. The valve should open and close freely; if leaks are present or the valve will not reseal after testing, it should be replaced.</p>	<input type="checkbox"/>
<p>Flush the unit and place back into service</p> <p>Disconnect hoses and flush chemicals from the unit. Restore power and gas service to the unit. Open the isolation valves and place the unit back into service. Run hot water at a nearby fixture to confirm the unit's operation.</p>	<input type="checkbox"/>
<p>Test the gas pressure</p> <p>Carefully connect manometer and test the gas service pressure to the unit. Verify that the service pressure is adequate for the proper functioning of the unit. Disconnect the manometer when the test is completed and test the connection for leaks.</p>	<input type="checkbox"/>

RECEIVING CREDIT

To receive credit for the assignment, please complete the worksheet and upload this file in the assignment section. Your local training leader will determine if you pass and if you're ready to move forward in the curriculum.

Your Initials: Click or tap here to enter text.

Training Leader's Initials: Click or tap here to enter text.

Date: Click or tap to enter a date.