

DESCALING HEAT EXCHANGER

MODELS: 80VP, 125VP, 170VP



WARNING

LP & NG ARE EXTREMELY FLAMMABLE SO TAKE EXTRA PRECAUTIONS WHEN PERFORMING ANY WORK TO THE HEATER

Introduction

In very hard water areas, periodic descaling may be necessary to ensure longer life and higher heat transfer efficiency. Symptoms which indicate a need for descaling include: decrease in flow of hot water, higher temperatures of water and a gurgling or boiling sound in the heater. A visual inspection can be made when changing the thermostat by looking inside the heat exchanger for signs of scaling.

Directions for descaling

1. Turn off cold water inlet to water heater. Open a hot water faucet.
2. Drain heater by opening the lowest water outlet in home.
3. With a catch basin below unscrew the brass nut on the cold water inlet and hot water outlet of heat exchanger.
4. Remove draft hood deflecting strip (#25687). Loosen the two support screws on each side of the heat exchanger at rear.
5. Pull heat exchanger out about an inch to clear inlet and outlet from connecting tubes.
6. Connect lengths of 5/8" hose or plastic tubing to each of the copper tubing points at A and B below. Make sure each hose is long enough to reach well above the top of the heat exchanger.
7. With funnel, pour descalant (see below) into right hose until level reaches "D" in the below diagram.
8. Let solution work for 10 - 15 minutes. (If using vinegar let sit for at least 45 min).
9. Now aim left hose into collecting bucket and drain descalant out, followed by one gallon of water added through the right hose.
10. Repeat until water is clear.
11. Rinse by pouring solution of 1/4 cup baking soda and 2 gallons of water through the right hose.
12. Reposition heat exchanger, tighten support screws. Reconnect copper tubing at A and B.
13. Run hot water a few minutes for final rinse.

