

Service Bulletin: TWH-G1-39

Model: 38B, 125B, 125X, 125HX, 125FX, 425HN, 425EF

Descaling The Heat Exchanger



BOSCH



WARNING

Liquid propane and natural gas are extremely flammable. Take extra precautions when performing any work to the heater.

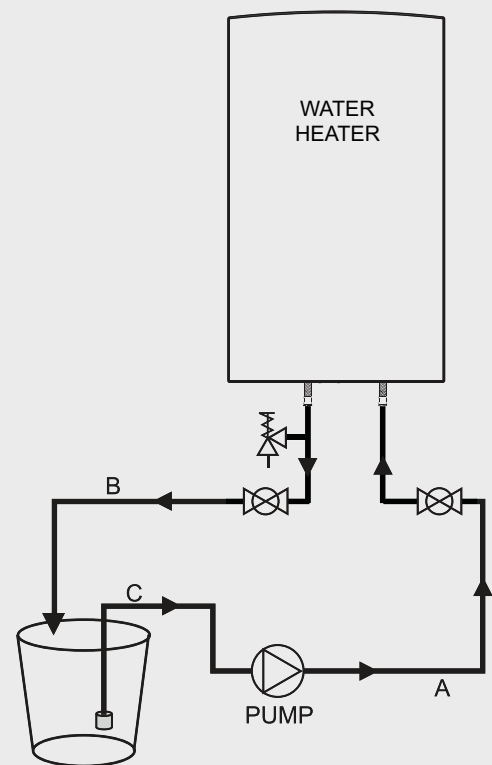


If you are not comfortable performing the tasks below, please seek a professional.

Procedure

1. Shut off gas supply to the water heater.
2. Disconnect electrical supply from the water heater if applicable.
3. Shut off the cold water supply to the water heater using (installer supplied) isolation valve.
4. Open hot water taps to drain and relieve pressure from the plumbing system.
5. Drain water from the unit's heat exchanger by disconnecting inlet and outlet water connections.
6. Connect the line (A) from the outlet of the circulating pump (installer supplied) to the inlet water fitting on the water heater.
7. Using another line (B), connect to the water outlet fitting on the water heater. Route the other end of this line into a descaling reservoir (5 gallon bucket will suffice).
8. Using a 3rd line (C) from the descaling reservoir, connect to the inlet side of circulating pump. Verify there is a filter on the end of the line in the descaling reservoir.
9. Make sure all connections are "hand tight."
10. Fill tank with descaling solution so lines inside are submersed. We recommend a straight white vinegar solution. If using a commercial descalant, refer to manufacturer's instructions on dilution with water.

Figure 1



11. Ensure inlet and outlet isolation valves to the water heater are open.
12. Operate the circulating pump.
13. Make sure there are no leaks and the solution is flowing from the descaling reservoir through the heat exchanger and returning to the reservoir.
14. Run solution through the heat exchanger until the solution returning to the descaling reservoir comes out clear. (Changing to a fresh solution may be necessary during this process in order to determine the solution exiting the water heater is clear).

15. Disconnect all lines and drain all solution from heat exchanger. Properly discard solution.
16. Position a container below the hot water outlet and reconnect cold water supply. Open cold water supply isolation valve and flush heat exchanger with clean water.
17. Shut cold water isolation valve and reconnect hot water supply to the water heater.
18. Reconnect electrical supply to unit (if applicable).
19. Turn on gas supply, open water isolation valves, and return the unit to service.



For standing pilot models, please refer to installation instructions for relighting the pilot.



For electronic ignition models, cycle the hot water on and off a few times to bleed off air.



If scale deposits occur frequently, it is recommended to seek a water quality professional for water softening/treatment options. Damage resulting from scale is not covered under warranty.



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