

CLEANING INSTRUCTIONS FOR CAMUS[®] VTECH WATER HEATERS WITH SCALEBREAK[®]-MP

When descaling a Camus[®] VTech water heater you will first need to visit our Camus[®] on-line calculation tool at www.goodway/Camus.com Here you will be able to obtain the proper amount of ScaleBreak[®]-MP and circulation time.

Keeping your Camus[®] VTech clean with ScaleBreak[®]-MP from water formed deposits is essential to efficient operation. Preventive maintenance cleanings of your water heater will give you a payback in reduced gas/propane consumption through clean efficient operation.

1. Allow the water heater to cool to ambient temperatures.
2. Close all valves and isolate the water heater.
3. Your circulation points will be the ¾" drain at the bottom and the pressure relief valve at the top.
4. A ¾" ball valve is located at the bottom drain point of the water heater, you will need to add a ¾" NPT male nipple to the valve. Attach one end of your hose to the ¾" nipple and the other end to your pump discharge. This valve can also be closed to avoid flood back should you need to shut your pump system down during the cleaning.
5. Remove the pressure relief valve on the top side of the water heater. Utilize this opportunity to perform an inspection of the pressure relief valve to make sure it is still functioning correctly.
6. This port is a 1" NPT opening so you will first need to attach a 1" to ¾" reducer. Your return hose will be attached to the reducer and the other end to the return point of the pump system.
7. Fill your pump system with water, open your bottom valve and turn your pump on and perform a hydrostatic test. This action assures the water heater is isolated and none of the ScaleBreak[®]-MP will be needlessly lost.
8. You will need to bleed off enough water equal to the volume of ScaleBreak[®]-MP required for the cleaning. If you relieve too much water, you can add some back to complete your circulation loop.
9. Water formed deposits will occupy volume, as a result, additional water may need to be added during the cleaning duration as deposits are dissolved.
10. Periodically check your isolation valves as they may have initially seated against scale. As ScaleBreak[®]-MP dissolves the scale, this action will help you avoid losing product.
11. Circulate the ScaleBreak[®]-MP solution for the recommended timeframe as indicated by our calculation tool.
12. During your ScaleBreak[®]-MP cleaning you will want to make sure your solution remains active. For this step, please follow our "Testing ScaleBreak's Effectiveness" procedure.
13. Once you have reached the recommended circulation time and your ScaleBreak[®]-MP solution has completed the job, you can begin your flushing process.
14. Though ScaleBreak[®]-MP is a biodegradable solution, most facilities need to conform to pH discharge limits. ScaleBreak[®] Neutralizer can be utilized to safely elevate your pH to meet your discharge limit so it can be flushed to the drain. Please follow the instructions for this process in the ScaleBreak[®] Neutralizer information sheet.
15. To flush your water heater, turn off your circulation pump, remove the return hose from your recirculation system and put it in a drain.
16. Add a fresh water hose to your recirculation bucket on your pump system and turn the pump back on.
17. Continue running clean water through the heater until the return water is running clear. This action will also flush out your pump system.
18. As an added flushing safeguard, reverse the flow with the lever on the pump. This action will flush away any debris that may have settled out the bottom of the water heater.
19. Disconnect your hoses, close the bottom drain valve and remove the reducer from the pressure relief valve port. Inspect your relief valve for proper functionality and reattach to the water heater.
20. Your VTech water heater can now be returned to service.

Please note:

- Follow all local regulations for discharge.
- Follow all plant personal protective equipment guidelines as determined by your health & safety team.
- ScaleBreak[®] formulas have very minimal corrosion rates, however, the application of ScaleBreak[®] may reveal pre-existing under-deposit corrosion (UD). This type of corrosion can present itself in the form of pitting, pin holes or similar types of damage.

Please contact Goodway Technologies with any questions.

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