



# CLEANING INSTRUCTIONS FOR CAMUS DYNAFLO WATER HEATERS WITH SCALEBREAK®-MP

When descaling the brazed plate heat exchanger on your DynaFlo water heater you will first need to visit our calculation tool at [www.goodway.com/camus](http://www.goodway.com/camus) so you know the proper amount of ScaleBreak®-MP needed and how long to perform the circulation.

1. Shut your DynaFlo unit down and allow it to cool to ambient temperatures.
2. Isolate the brazed plate heat exchanger from the system by closing the supply and return water valves.
3. Remove the front cover for access to the BPHE.
4. Unbolt the four Victaulic fittings from the supply and return on both the domestic and boiler sides.
5. Slide the BPHE out of the housing.
6. The BPHE should now be easily accessible for a cleaning.
7. Position a ball valve on the low point of the heat exchanger. This valve will function as the entry point for your ScaleBreak®-MP cleaning and can be closed to prevent backflow if needed.
8. Attach your circulation hoses so you are pumping into the bottom of the heat exchanger and returning the fluid out the top.
9. Your exit point on top needs to be at the highest point of the exchanger. If the exit point is lower than the top of the plate pack, position the hose at a higher point. This action will insure the entire plate pack is flooded and ScaleBreak®-MP comes in contact with all the interior wetted surfaces. It will also insure upper interior areas do not become air bound with CO<sub>2</sub> or foaming resulting from the cleaning.
10. Fill your exchanger with water and perform a hydrostatic test by turning your pump on and circulating the water. This action assures the exchanger is isolated and none of the ScaleBreak®-MP will be needlessly lost.
11. 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.
12. Water formed deposits will occupy volume, as a result, additional water may need to be added during the cleaning process as deposits are dissolved.
13. Start adding the predetermined amount of ScaleBreak®-MP into the top port of the GDS pump system.
14. Circulate the ScaleBreak®-MP solution for the recommended timeframe as indicated by our calculation tool.
15. Periodically the flow can be reversed on the GDS pump system by sliding the flow reversal valve to the opposite side.
16. 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.
17. Once you have reached the recommended circulation time and your ScaleBreak®-MP solution has completed the job, you can begin your flushing process.
18. 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.
19. To flush your heat exchanger, turn off your circulation pump, remove the return hose from your recirculation system and put it in a drain.
20. Add a fresh water hose to your recirculation bucket on your pump system and turn the pump back on.
21. Continue running clean water through the heat exchanger for 10-15 minutes or until the return water is running clear. This action will also flush out your pump system.
22. As an added safeguard you can reverse your hoses so you pump into the top and out the bottom. This action will flush away any debris that may have settled out the bottom of the exchanger.
23. Disconnect your hoses and pump system from the BPHE.
24. Slide the BPHE back into the housing and reconnect it to the DynaFlo system.
25. Open the supply and return valves for both the domestic and boiler supply water.
26. Your DynaFlow 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) or microbiologically induced corrosion (MIC). These types of corrosion can present themselves in the form of pitting, pin holes or similar types of damage.

**Please contact Goodway Technologies with any questions.**



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