

OptiClean Descaling Powder

Instructions for Removing Lime-Scale from Water-Using Equipment

Important

- OptiClean is a Non-Hazardous, Citrus-Based Powder that when mixed with water becomes a powerful lime-scale remover.
- Do NOT mix OptiClean with other chemicals.
- OptiClean is for industrial or institutional use ONLY.
- Use one 2 lb. package to descale most countertop steamers.
- Use 2-4 packages to descale larger boiler-based steamers.
- ***Be sure to utilize a CTOS-10 Replacement Cartridge with IsoNet. Regularly changing the CTOS-10 cartridge will provide optimum scale protection and will minimize the need for descaling.***

De-liming Procedure

1. Turn off the power supply to the equipment.
2. Allow steamer to blow down automatically on shut-down. If steamer is not equipped with automatic blow-down, proceed with a manual blow-down.
3. Turn off inlet water supply to the OptiSteam using the inlet ball valve.
4. Relieve pressure in filter housing using the red button on top of the housing.
5. Remove clear filter housing sump, remove the CTOS-10 cartridge from the sump, and pour out the remaining water from sump.
6. Use the Venturi tube from clip on the left side of filter housing head. Insert the blue end of the tube into the center port of the head until it stops.
7. Carefully cut open a corner of a bag of OptiClean and slowly pour the contents into the clear sump. Avoid getting grains of the powder on the threads or o-ring.
8. Replace the sump and hand tighten. Do not use the filter wrench to tighten. The Venturi tube will be forced down through the powder with powder packing into the center of the tube. This will not affect the descaling operation.
9. Open the OptiSteam Inlet Valve.
10. Actuate the power supply to the equipment. Water flow will start and draw the powder directly into the boiler.
 - a) If de-liming a Counter-Top Steamer, proceed to step 11.
 - b) If de-liming a larger Boiler-Based Steamer, first perform the following steps before proceeding to step 11:

- Monitor powder level in sump
 - When level is to within 1" of bottom of sump, immediately turn off inlet water supply.
 - Relieve housing pressure and remove sump.
 - Carefully pour off the water in the sump directly to a drain.
 - Add another package of OptiClean and repeat steps 7-10.
 - Repeat as needed or until four packages of OptiClean have been used to fill the boiling chamber.
11. With water supply inlet valve open, allow steamer to come up to operating temperature and pressure. Allow unit to stabilize for one hour.
 12. Thirty minutes after the start of step 11, turn on steam to cooking chamber for a minute to descale distribution lines.
 13. One hour after starting step 11, de-energize the steamer and blow down manually or automatically.
 14. Fill the boiler with clean water and repeat blow-down to remove remaining loose scale from boiling chamber. In heavily-scaled areas, it may be necessary to repeat this step more than once.
 15. After blow-down, de-energize the steamer and close the water inlet valve on the OptiSteam.
 16. Depress pressure relief valve on top of housing and unscrew filter housing sump.
 17. Remove the Venturi tube and replace in black clip on left side of housing.
 18. Install a new CTOS-10 Cartridge in the clear sump and replace the sump. Hand-Tighten Only.
 19. Open the water inlet valve and relieve trapped air in filter housing by depressing the pressure relief valve on the top of the housing.
 20. Energize the steamer and start cooking!

Note: If the OptiClean Powder does not dissolve the scale, it usually indicates that the calcium carbonates have combined with silicates (occasionally found in some water supplies), and are virtually impossible to dissolve.

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