PENTAIR

EVERPURE®

FOODSERVICE BULLETIN

***File No**: 110112*
***Date:** 11-01-12*
Subject: Deliming with Everpure Products

Pentair–Everpure would like to provide you with information regarding deliming, using Everpure Products such as Everpure ScaleKleen™, Everpure Kleensteam®/SR-X.

EV9798-35
Everpure ScaleKleen 2.2 lbs

EV9798-33
Everpure ScaleKleen 7 oz.

EV9798-31
Everpure ScaleKleen 1.75 oz.

EV9797-50
Everpure Kleensteam CT

EV9797-21
Everpure Kleensteam II Single

EV9797-22
Everpure Kleensteam II Twin

EV9797-20
SR-X Scale Inhibitor Systems with Deliming Kit

IMPORTANT! The processes below are designed as a **preventative program** for removing mild scale buildup. If heavy scale deposits already exist, then the process below may need to be repeated 2 or 3 times until scale deposits have been removed.

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Deliming using Everpure ScaleKleen and Everpure Kleensteam/SR-X

Boiler and Boilerless Steam Applications:

1. Close the inlet valve and outlet valve on the Everpure Kleensteam System and drain water from the system.
2. Remove the Everpure SR-X clear bowl and the Everpure Scalestick®. Discard the Scalestick.
3. Insert the dip tube into the inner stand pipe in the center top of the Everpure SR-X head.
4. Mix Everpure ScaleKleen with warm/tepid water (about 110°-120°F/43°-49°C).
    a. For **small steamers** (<10kW or <100,000BTU), mix **2.2 lbs of ScaleKleen** with two (2) quarts of tepid water to dissolve the ScaleKleen.
    b. For **large steamers** (>10kW or >100,00BTU), mix **2.2 lbs of ScaleKleen** with two (2) quarts of tepid water to dissolve the ScaleKleen.
5. Lubricate the bowl O-ring and replace the bowl into the SR-X head.
6. Open the inlet valve on the filter head to allow one (1) gallon of water to pass through the SR-X system (with a flow rate of 2.0 gpm, open the valve for one (1) minute). This will move the ScaleKleen solution into the steam oven.
7. Turn on the steam over. After it reaches operating temperature, allow **30 minutes** for ScaleKleen to remove scale. Turn off the steam oven.
    a. For **large steamers, repeat the process** above with another 2.2 lbs of ScaleKleen and warm water in the SR-X.
8. Blow down the boiler until pH of the outgoing (effluent) water is within one (1) pH unit of the incoming (influent) water. Place the steam oven back into service.
9. Close the water inlet and outlet valves and drain the water from the system. Remove the SR-X bowl, remove the dip tube and store on top of the system. Insert a new Scalestick and replace bowl. Open the inlet and outlet valves.

Proofers and Flash (Direct Heat) Steam Applications:

1. Close the inlet valves and outlet valve on the Kleensteam System and drain water from the system.
2. Remove the SR-X clear bowl and the Scalestick. Discard the Scalestick.
3. Insert the dip tube into the inner stand pipe in the center top of the SR-X head.
4. Mix ScaleKleen with warm/tepid water (about 110°-120°F/43°-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **proofers**, mix **7 ounces of ScaleKleen** with one (1) quart of tepid water to dissolve the ScaleKleen.
    b. For **flash steamers**, mix **7 ounces of ScaleKleen** with one (1) quart of tepid water to dissolve the ScaleKleen.
5. Lubricate the bowl O-ring and replace the bowl into the SR-X head.
6. Open the inlet valve on the filter head to allow one (1) quart of water to pass through the bowl (with a flow rate of 2.0 gpm, open the valve for 30 seconds). This will move the ScaleKleen solution into the steam oven.
7. Turn on the proofer or steam oven. After it reaches operating temperature, allow **30 minutes** for ScaleKleen to remove scale. Turn off the oven.
8. Blow down the boiler until the pH of the outgoing (effluent) water is within one (1) pH unit of the incoming (influent) water. Place the steam oven back into service.

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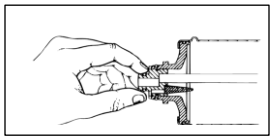
9. Close the water inlet and outlet valves and drain water from the system. Remove the SR-X bowl, remove the dip tube and store on top of the system. Insert a new Scalestick and replace the bowl. Open the inlet and outlet valves.

Deliming using Everpure ScaleKleen and Everpure JT Flushing/Sanitizing Cartridge:



1. Turn off inlet water supply on the water filter system; remove and discard existing Everpure filter cartridge.
2. Remove top plug from JT can and pour ScaleKleen mixed with water (see below for quantities).
3. Replace top plug, insert the JT can into the head assembly and turn the inlet water on.
4. When the steps below are complete, replace the JT can with a new Everpure filter cartridge.

Boiler and Boilerless Steam Applications:

1. Mix ScaleKleen with warm/tepid water (about 110°-120°F or 43-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **small steamers** (<10kW or <100,000 BTU), mix **2.2 lbs of ScaleKleen** with two (2) quarts of tepid water in a clean bucket. Pour solution into the JT can.
    b. For l**arge steamers** (>10kW or >100,000 BTU), mix **2.2 lbs of ScaleKleen** with two (2) quarts of tepid water in a clean bucket. Pour solution into the JT can.
2. Open the inlet valve on the filter head to allow 1 gallon of water to pass through the JT can (with a flow rate of 2.0 gpm, open the valve for one (1) minute). This will move the ScaleKleen solution into the steam oven.
3. Turn on the steam oven. After it reaches operating temperature, allow **30 minutes** for ScaleKleen to remove scale. Turn off the steam oven.
4. For **large steamers**, **repeat the process** above with another 2.2 lbs of ScaleKleen and tepid water in the JT can.
5. Blow down the boiler until the pH of the outgoing (effluent) water is within one (1) pH unit of the incoming (influent) water. Place the steam oven back into service.

Proofers and Flash (Direct Heat) Steam Applications:

1. Mix ScaleKleen with warm/tepid water (about 110°-120°F or 43-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **proofers,** mix **7oz of of ScaleKleen** with once (1) quart tepid water in a clean bucket. Pour solution into the JT can.
    b. For **flash steamers,** mix **7oz of of ScaleKleen** with once (1) quart tepid water in a clean bucket. Pour solution into the JT can.
2. Open the inlet valve on the filter head to allow 1 quart of water to pass through the JT can (with a flow rate of 2.0 gpm, open the valve for 30 seconds). This will move the ScaleKleen solution into the flash steamer.
3. Turn on the proofer or flash steamer. After it reaches operating temperature, allow **30 minutes** for ScaleKleen to remove scale. Turn off steam oven.
4. Blow down the boiler until the pH of the outgoing (effluent) water is within one (1) pH unit of the incoming (influent) water. Place the proofer or flash steamer back into service.

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Drip Coffee Applications:

1. Mix ScaleKleen with warm/tepid water (about 110°-120°F or 43-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **glass ½ gallon pot, single airpot and satellite brewers**, mix 7 ounces of ScaleKleen with one (1) quart of tepid water in a clean bucket and pour into JT can.
    b. For **dual airpot**, mix 7 ounces of ScaleKleen with one (1) quart of tepid water, filling the JT can.
2. Dump any coffee grounds from the brew basket and replace the basket.
3. Cycle coffee maker once, vending 1 pot. **Let sit for 30 minutes**.
4. After 30 minutes, cycle coffee maker with 10 pots of filtered water to flush the ScaleKleen from brewer. NOTE: Check the pH of the hot water – if it's within one (1) pH unit of the incoming cold water, the ScaleKleen is flushed out.
5. For **dual airpot brewers, repeat all steps for the other half of the brewer**.

Espresso Applications:

1. Mix ScaleKleen with warm/tepid water (about 110°-120°F or 43-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **all espresso machines, including semi-and super-automatics**, mix **7 ounces of ScaleKleen** with one (1) quart of tepid water in a bucket and pour solution into the JT can.
2. Empty the basket of any coffee grounds and reinsert the portafilter.
3. Run the pump in 15 second start/stop intervals until about 3 quarts of water are sent to drain to flush the ScaleKleen from the machine. Run the steam wand for 15 seconds. NOTE: Check the pH of the hot water – if it's within one (1) pH unit of the incoming cold water, the ScaleKleen is flushed out.

Ice Applications:

1. Turn off the ice machine and drain the sump. The sump is a reservoir where water is stored in the ice machine until it is drawn and poured over the chilled ice tray.
2. Mix ScaleKleen with warm/tepid water (about 110°-120°F or 43-49°C). The tepid water will dissolve the ScaleKleen, allowing it to work better.
    a. For **cubers and flakers < 600 lbs ice per day**, mix **7 ounces of ScaleKleen** with one (1) quart of tepid water in a clean bucket.
    b. For **cubers and flakers > 600 lbs ice per day**, mix **14 ounces of ScaleKleen** with one (1) gallon of tepid water in a clean bucket.
3. Pour the ScaleKleen solution into the ice machine sump. Allow the sump to fill completely so the machine won't be starved for water.
4. Turn the machine on to "PUMP" mode and allow the ScaleKleen solution to recirculate inside the machine for **20 minutes**.
5. Drain and rinse the sump thoroughly with clean water to remove any residual traces of ScaleKleen. NOTE: Check the pH of the water in the sump. If it's within one (1) pH of the influent tap water, then the ScaleKleen has been rinsed out.
6. Turn the ice machine on in the 'ICE" mode and put it back into service.

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How often should you delime using ScaleKleen?

		Water Type	Grains Per Gallon (gpg)	Deliming Interval
COFFEE	BREWERS	Soft Water	0-3 gpg	6 Months
		Moderately Hard Water	3-7 gpg	3 Months
		Hard Water	7-15 gpg	2 Months
		Very Hard Water	15 + gpg	1 Month
ESPRESSO	MACHINES	Soft Water	0-3 gpg	6 Months
		Moderately Hard Water	3-7 gpg	3 Months
		Hard Water	7-15 gpg	2 Months
		Very Hard Water	15 + gpg	1 Month
ICE	MACHINES	Soft Water	0-3 gpg	12 Months
		Moderately Hard Water	3-7 gpg	6 Months
		Hard Water	7-15 gpg	4 Months
		Very Hard Water	15 + gpg	3 Month
PROOFERS &	FLASH STEAM	Soft Water	0-3 gpg	1 Month
		Moderately Hard Water	3-7 gpg	8 days
		Hard Water	7-15 gpg	5 days
		Very Hard Water	15 + gpg	3 days
BOILER STEAM	(No Kleensteam)	Soft Water	0-3 gpg	6 Months
		Moderately Hard Water	3-7 gpg	4 Months
		Hard Water	7-15 gpg	3 Months
		Very Hard Water	15 + gpg	1 Month
BOILER STEAM	(W/Kleensteam)	Soft Water	0-3 gpg	12 Months
		Moderately Hard Water	3-7 gpg	6 Months
		Hard Water	7-15 gpg	6 Months
		Very Hard Water	15 + gpg	3 Months

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Did you know…

That you can also use a 4JT can to sanitize your water filter system?

1. Open the JT can and add about a teaspoon of laundry bleach (5.25% sodium hypochlorite solution).
2. Insert the JT can into the filter head, plugging any unused heads in the system, and slowly open the shut-off valve at the front (inlet) of the filter system. Allow the water to run to drain until the smell of chlorine is strong.
3. Then immediately shut off the water and wait **30 minutes**.
4. After **30 minutes**, run the water to drain for 5 minutes to purge the system of any residual bleach.
5. Replace the JT can with a new Everpure filter cartridge.

For additional information, please contact your Sales Manager or Customer Service toll-free at 800.942.1153 (local 630.307.3000), or via email at cseverpure@pentair.com.

- Pentair - Everpure Marketing

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