

Read these important points before installing this KleenSteam® System:

- 1. Always use a minimum 3/8" O.D. copper tubing from the outlet of the KleenSteam unit to your steamer.
- 2. Use the water from the KleenSteam unit only on steamer feed and make-up water. DO NOT USE TO TREAT CONDENSATE COOLING WATER.
- 3. For many years, Everpure has worked closely with all major foodservice equipment manufacturers to assure the highest possible degree of compatibility and optimal performance of the KleenSteam System with their steamers.

To help ensure satisfactory operation, we recommend that you obtain and read the equipment manufacturer's operating and maintenance instructions for your specific steamer model. Follow the manufacturer's instructions and procedures for installation, maintenance and cleaning. Or consult with the manufacturer's representative or technical service personnel for quidance regarding any differences between their directions and those included with the KleenSteam System. Failure to do so may affect equipment performance and/or warranty coverage.

Installation instructions

Do not make any disconnections until you have inspected the contents of the KleenSteam unit carton. You should have:

- KleenSteam plate-mounted system consisting of:
 - Quick-change filter head with 7CB5 Filter Cartridge (AR-X System) or 4CB5 Filter Cartridge (CT System)
 - AR-X Housing
 - AR-10 Cartridge or ScaleStick SS-10
 - Dip Tube for ScaleKleen delimer
- (4) ScaleKleen 2.2 lb. packets (AR-X System)
- (2) ScaleKleen 7 oz packets (CT System)

If you do not have these components, do not attempt to install this system!

Contact your local Everpure Master Distributor for assistance.

- Shut off power to the steamer.
- Shut off the inlet water to the steamer at the supply valve.
- Attach the plate-mounted KleenSteam system to a suitable structure in an accessible location. Mounting holes are provided on the mounting plate. THE KLEENSTEAM AR-X WEIGHS 25 POUNDS IN SERVICE. THE KLEENSTEAM CT WEIGHS 15 POUNDS IN SERVICE.

- 4. Attach the inlet of the KleenSteam unit to a COLD water supply line only. Hot water will damage the KleenSteam unit and will void the warranty. Use a minimum of 3/8" tubing.
- Attach only copper or stainless steel tubing from the outlet of the KleenSteam system to the inlet feed/makeup water connection on your steamer. Keep the tubing run to the steamer under 20 feet. DO NOT CONNECT TO CONDENSATE COOLING LINE.
- Install 7CB5 or 4CB5 Filter Cartridge into the guickchange filter head as instructed on the cartridge label.
- Unscrew the clear bowl and insert the AR-10 cartridge or SS-10 ScaleStick into the center port of the AR-X head. The friction fit between the cartridge and port should allow the cartridge to be suspended while placing the clear bowl over the cartridge and threading it into place on the head. NOTE: The cartridge must be replaced when the level of the white material drops below 1/4" in depth. Take care not to block the KleenSteam unit from view when installing.
- With the supply water to the KleenSteam unit off, rotate the inlet valve handle to the open position.
- Attach tubing to the outlet of the flushing valve and open the valve.
- 10. Turn on the inlet supply water and flush the 7CB5 or 4CB5 cartridge to drain (or bucket) at full force for several minutes. This will flush incidental carbon fines and any trapped air.

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- 11. After flushing, close the flushing valve handle until the water stops.
- 12. Depress red pressure relief button on the AR-X head until water flows out and around the red button.
- 13. Inspect KleenSteam unit for leaks, and correct as required.
- 14. Turn on power to steamer.

Highly Acidic Water in Steam Applications

The Everpure AR-10 scale control cartridge has been included standard with KleenSteam systems using the AR-X feeder. The cartridge contains a buffered food grade pH/alkalinity adjustment media that is successfully applied to reduce or prevent scale formation in water-fed equipment such as steamers.

While the acidity of the AR-10 product is very gentle, it may be less appropriate in already low pH, low alkalinity water applications (pH < 7.5; alkalinity < 50 ppm). In such low pH, low alkalinity water areas, a corrosive environment can be created in the steam generator. The pH and alkalinity of your water can be checked with easy-to-use test strips that are readily available from Everpure and other sources.

Under extremely low pH and alkalinity conditions, a suggested alternate scale control product is the Everpure ScaleStick model SS-10. The ScaleStick cartridge fits directly into the AR-X housing in place of the AR-10 cartridge without any additional modification or adaptation, and may provide improved, longer lasting scale control performance in more extreme (pH, alkalinity, TDS, temperature) inlet water conditions.

Deliming Instructions

In addition to reducing harmful chlorine and controlling limescale build-up, the KleenSteam system may be used to conveniently introduce deliming material into the steamer without disturbing existing piping.

Use only Everpure ScaleKleen deliming material. ScaleKleen is a highly effective, safe and environmentally friendly de-scaling product. Its routine maintenance usage removes built-up scale in steam equipment easily and quickly. This enhances steamer performance, reduces operating costs and helps prevent costly repairs and unexpected downtime. Other deliming products may contain harsh acids that can damage the housing materials or clog orifices. Generally, use one 2.2 lb (1 kg) package to delime most countertop units and four 2.2 lb packages to delime most boiler-based units.

STEPS

1. Turn off the power switch on the steamer.

- 2. Blow down steamer. Blow down is done automatically on some steamers when power is turned off. Manually blow down the steamer if it is not automatic.
- 3. Turn off inlet water to KleenSteam system.
- 4. Depress the red relief button located on top of the AR-X head to relieve system pressure.
- 5. Unscrew the clear bowl and remove the cartridge. Dispose of the exhausted cartridge in normal trash and empty bowl of any remaining water.
- 6. Remove the dip tube from it's holding clip, located on the backplate. Insert the tube. O-ring first, into the center port of the AR-X head until the dip tube bottoms out.
- 7. Open one kilogram (2.2 lb) package of ScaleKleen™ and empty it into the clear bowl. Wipe off any excess ScaleKleen™ material which may be on the bowl threads or O-ring.
- Thread the bowl back into the head hand tight only! NOTE: The dip tube may become packed with ScaleKleen™. This is normal and will not affect the deliming procedure.
- 9. Turn on the inlet water to the KleenSteam unit by rotating the inlet valve handle.
- 10. Turn on the power to the steamer. NOTE: This action will quickly introduce the ScaleKleen™ material directly into the boiler chamber. If you are deliming a countertop steamer, proceed to step 11. If you are deliming a boiler-base unit, monitor ScaleKleen™ level in bowl. When it drops to 1", quickly turn off inlet water at valve handle. Now relieve pressure and unscrew bowl from head. Add another kilogram of ScaleKleen™ to the bowl and reintroduce the material into the boiler. Repeat this procedure until four (4) kilograms of ScaleKleen™ have been introduced into the boiler chamber.
- 11. With ScaleKleen™ material introduced into the boiler chamber and the inlet water turned on, make sure the boiler sump is flooded. Allow the steamer (countertop or boiler-based) to come up to operating temperature and pressure, and hold for one hour.
- 12. Thirty minutes into the deliming procedure, turn on steam to cooking chamber(s) for one minute. This will delime the distribution lines, small orifices, and steam solenoid valves.
- 13. After one hour of deliming the steamer at operating temperature and pressure, turn the steamer power switch to the off position.
- 14. Manually blow down the steamer if it is not done automatically when the power is turned off.

15. Fill the boiler with fresh, clean water and repeat blow down a second time to void the boiler chamber of any undissolved loose scale.

Note

Depending on the steam generator fill probe configuration on your steamer, de-scaling compounds may leave residual foam bridging probe electrodes. This can cause a false water level indication leading to "dry firing" of the boiler that can burn out heating elements.

To help ensure against incorrect probe operation, follow all of the instructions provided for de-scaling. This includes adding an additional 1 to 1-1/2 gallons of water to the de-scaling port(s) once automatic filling has stopped after the de-scaler drain cycle. This raises the water level above the fill probes, permitting them to be flushed clean and drained with the following drain cycle.

- 16. After the second blow down, turn the steamer power switch to the off position, and turn off the inlet water at the valve handle on the KleenSteam unit.
- 17. Relieve system pressure by depressing the red relief button on the AR-X head until all air is expelled and water begins to escape.
- 18. Unscrew the clear bowl and remove the dip tube from the head. BE SURE TO REPLACE THE DIP TUBE IN IT'S HOLDER ON THE BACKPLATE!

- 19. Install a new AR-10 or SS-10 cartridge into the head, and screw the bowl back into the head. Hand tighten only!
- 20. Turn on the inlet water. Relieve trapped air in the clear bowl by depressing the red relief button on the AR-X head until all air is expelled and water starts to escape.
- 21. Turn the steamer power switch to the on position.

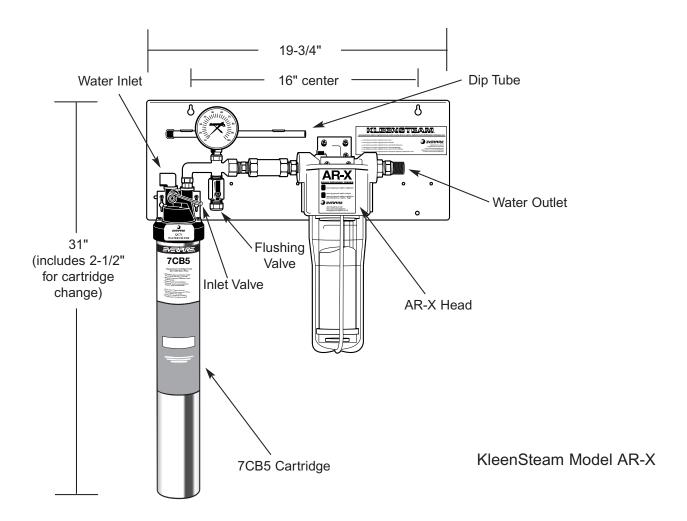
 Steamer is now ready to be placed back into service.

Replacement Parts

Part Number Description

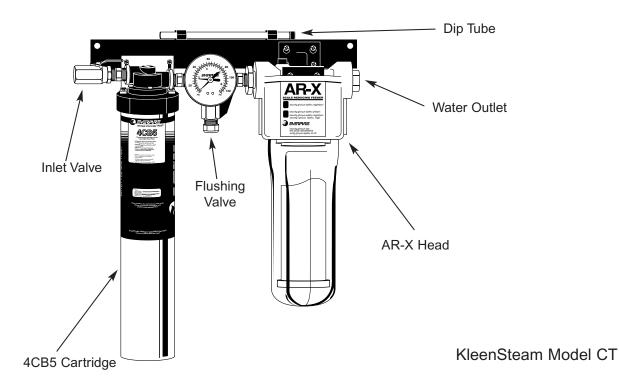
EV3080-40 Dip Tube Assembly	
EV9617-16 4CB5 Filter Cartridge (6-pack)	
EV9618-16 7CB5 Filter Cartridge (6-pack)	
EV9799-02 ScaleStick SS-10 (12-pack)	
EV9496-10 AR-10 Acidulant Cartridge (1-pack)	
EV9496-16 AR-10 Acidulant Cartridge (6-pack)	
EV9798-01 ScaleKleen Scale Remover	
2.2 lb pkg. (4-pack)	
EV9798-20 ScaleKleen Remover 7 oz pkg. (24-pa	ck)

Dimensions and Specifications	Model AR-X	Model CT	
	PN EV9797-00	PN EV9797-50	
Width of Mounting Plate	19-3/4"	14"	
System Depth (front to back)	8.0"	8.0"	
Overall Length	31.0"(includes 2" for cartridge change)	18 1/4"(includes 2" for Cartridge change)	
Inlet Connection	3/8" FPT	3/8" FPT	
Outlet Connection	1/2" MPT	3/8" FPT	
Minimum Water Pressure	20 psi	10 psi	
Maximum Water Pressure	125 psi (non-shock)	125 psi (non-shock)	
Maximum Water Temperature	80°F	80°F	
Net Shipping Weight	23 lbs.	10 lbs.	
Operating Weight	25 lbs.	15 lbs.	



IMPORTANT NOTE:

Water from KleenSteam System should only be connected to the boiler feed, and not to the condenser connection of the steamer.



This page contains materials and DCO information. IT DOES NOT PRINT AS PART OF THE DOCUMENT!

Materials & Description: Kleensteam AR-X & CT Install & Instruction Sheet EV311158

Size: $11" \times 17" \pm 1/16$ tolerance

Color: Black, 2 Sided

Stock: 20# White

Coating:

Other:Fold to 8 1/2" X 11" ± 1/16 tolerance (head out)

LET	CHANGE	BY	APRVD	ECN	DATE
Α	NEW ART CREATED	LR	GR	04-021	03/01/04