

SMF SteamerGUARD 5000

INSTALLATION & OPERATIONS MANUAL

Water Filtration Systems for the Food Service Industry



selecto

Proud Member of:












DO NOT USE with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

1. Installation Precautions




Selecto Water Treatment systems are carefully designed per application to reduce various contaminants such as sediment, dirt, cysts, hardness minerals and improve taste. These systems will also prevent scaling and corrosion in your equipment. Follow these instructions with care and you will be very satisfied with the unit and benefit from its low-cost operations.

What to know prior to Installation



-  The Selecto Water Treatment systems are not to be used where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after unit.
-  Do not install where line pressure is outside of 40 - 125 psi, or where temperature is lower than 40°F or exceeds 100°F.
-  Installation must comply with any existing state or local plumbing codes.
-  The unit(s) must be protected against freezing. Failure to do so may result in cracking of the filter and water leakage.
-  The Selecto Water Treatment system is designed for cold water line use only. Passing hot water through the system may seriously damage filter housing.
-  Filter must be in contact with water at all times.
-  Recommended pH range is 6 to 8.5.
-  Recommended inlet pressure 60 psi.
-  Tools needed: drill, screwdrivers, tube cutters (if hard plumbing: lead free solder, heating device, and flux)

2. Installation

Unpacking

-  Remove filter system from packaging and inspect for shipping damage. Notify shipping company immediately if damaged.
-  Carefully lift filter system, using proper lifting techniques (use your legs, not your back) from the box to inspect thoroughly.
-  Dispose of packing material, so as not to create a tripping hazard during installation.

Positioning Water Filter

-  The water filter should be mounted upright on a horizontal surface without obstructions.
-  Locate a position that is close to the equipment it will be supplying water to, where it is out of the way of possible damage from day-to-day operations, and where it is accessible for cartridge changeout when needed. There should be a 12" minimum bottom clearance.

2. Installation (Continued)



Mounting

1. Measure backplate of regeneration housing and mark hole locations on wall (See Item 1).

a. Ensure marks are level, then drills holes for anchors (if needed). Anchors must be properly matched, to allow for wet weight of filter system. Wet Weight = 40 lbs.

b. Secure SMF housing to wall. Be sure to allow 16" clearance below housing for regeneration cartridge!

2. Locate resin tank on a solid surface floor. Secure tank to wall according to local code (See Item 4).

Water Connections

3. Use appropriate 1/2" fittings and tubing to allow for a flow rate of 5 Gallons Per Minute (GPM) (See Item 2 & 3). Make sure Bypass plug 9 is in place in the regeneration housing.

a. Connect water filter inlet to cold water supply. Use approved flexible beverage tubing where possible with correct sized tube clamps. If hard plumbing is necessary then use only lead free solder and protect filter housing from excessive heat. Do not solder within 12" of plastic parts!

b. Unit was supplied with a three way ball valve, install on outlet of tank using supplied instructions. Use supplied fittings only to allow for proper water flow.

4. From outlet of system use no less than 1/2" ID tubing to all specified equipment. It is only permissible to decrease line size when multiple lines are being used (See Item 7).

* Teeing the tubing should be done appropriately, for example 1/2" x 1/2" x 1/2". This is only to be done at equipment location if line is to be used for other equipment.

Initializing Water Filter

5. Turn outlet ball valve to drain position (downward) for initialization process (See Item 8).

6. Turn inlet ball valve to the on position slowly allowing water to fill regeneration housing (See Item 5). Allow water to go to drain for approximately 3-5 minutes Max.

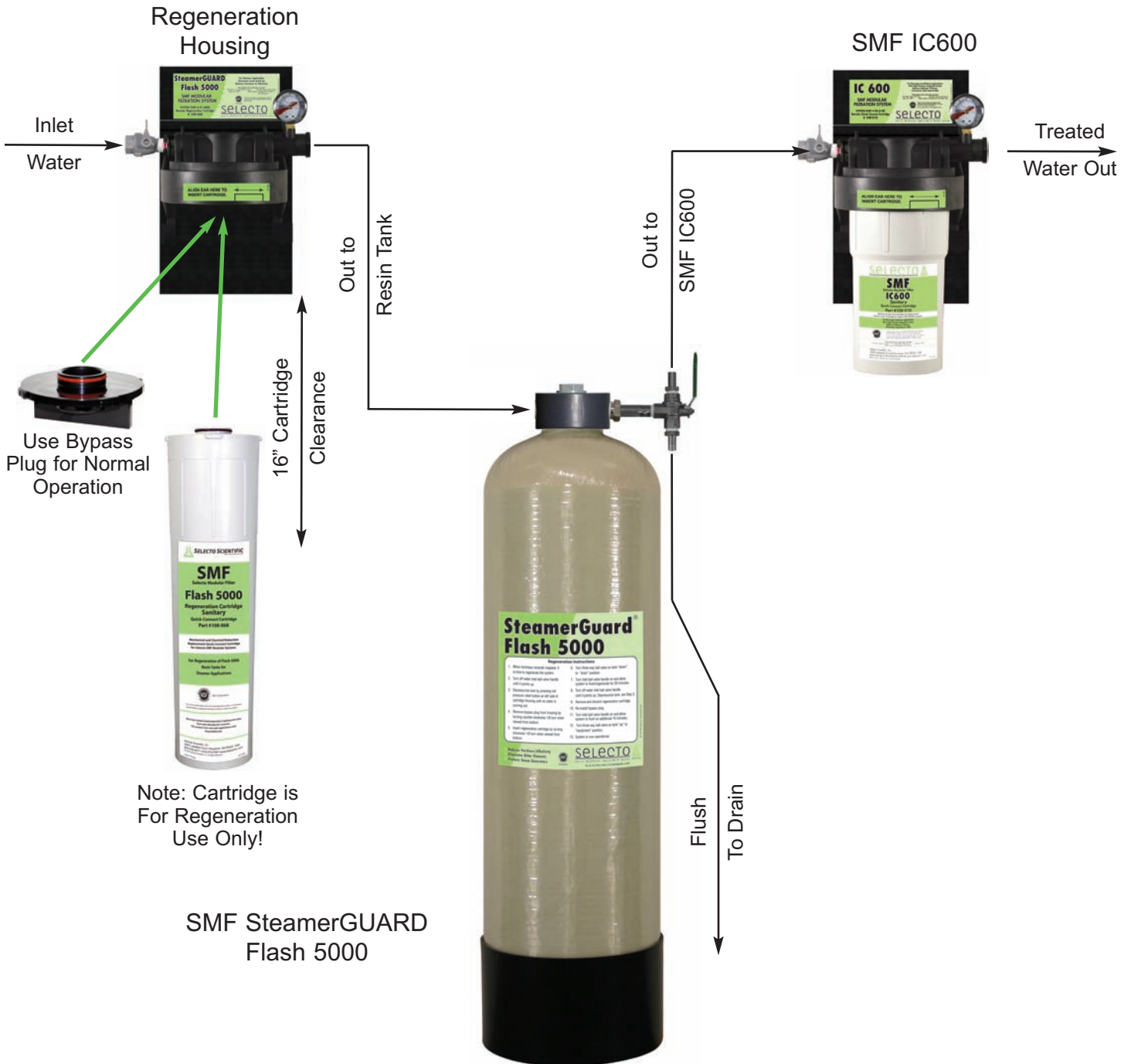
7. Turn outlet ball valve handle to equipment position (upward) allowing water to flow to supplied equipment (See Item 8).

8. System is now operational. Go back and check every connection for possible leaks and fix where needed.

2. Installation (Continued)

Selecto SMF SteamerGUARD Flash 5000 systems are typically installed in conjunction with an SMF IC600 filtration system as shown in the diagram below.

SMF SteamerGUARD Flash 5000 / SMF IC600 Installation Diagram



3. Maintenance

Resin Tank Regeneration Schedule & Procedures

When scale effects or hardness minerals re-appear, it is time to regenerate the resin tank. To regenerate resin tank, follow the steps below.

1. Turn inlet ball valve to the "Off" position. (See Item 5).
2. Turn 3-way outlet ball valve to drain position (downward) to relieve pressure prior to regeneration process (See Item 8). Be sure the lower drain port on the 3-way valve is plumbed to a floor drain or sink!
3. Remove 6" bypass plug, part #300-741 from housing by turning counter-clockwise 1/8 turn (when viewed from bottom) and pulling downward about 1 1/2" to remove the plug as shown below.



4. Remove and discard the "Red" sanitary cap from the top of the regeneration cartridge. Be sure to apply sufficient lubrication (supplied) to the O-Rings. Align ear on cartridge with notch in filter head and push upwards to insert. Be sure to push cartridge all the way in! Turn cartridge clockwise (when viewed from bottom) until a definite stop is felt and cartridge is sealed. Hand tight is sufficient.



5. Turn inlet ball valve to the "On" position. (See Item 5). Allow water to run to drain for 20 minutes.

6. Turn inlet ball valve to the "Off" position. (See Item 5).
7. Grasp filter cartridge, turn counter-clockwise 1/8 turn (when viewed from bottom) and pull downward about 1 1/2" to remove the filter cartridge. Properly dispose of old cartridge.



8. Re-install the "Bypass Plug". When installing the "Bypass Plug", it is necessary to properly lubricate the O-Ring using the lubricant provided. Install the plug the same way as when installing the regeneration cartridge by following the procedures outlined in "Step 4". Be certain to properly engage the "Ears" on the "Bypass Plug" fully into the round locking tab in the filter head as shown in Step #3 of page #6. See the diagram below.



9. Turn inlet ball valve to the "On" position. (See Item 5). Continue to flush system to drain for an additional 10 minutes.
10. Return 3-way outlet valve to operating position (Upward). (See Item 8). System is now regenerated and fully operational.

4. Troubleshooting Guide

Leaks

All SMF Series Modular Filter Systems are factory pressure tested. You may experience leaks of a few drops of water at the various O-Ring sealed junction points at initial Start-Up only. This will subside after a few minutes as soon as the O-Rings become under pressure and seat properly. For any leaks lasting longer than this, or those that are more than a few drops, please see the troubleshooting points below. Note: The inlet valve **5** must be turned "OFF" (handle in vertical position), and pressure relieved by pushing the "Red" pressure relief button **6** before attempting to fix any leakage problems.

1. Leaks at threaded connection points.

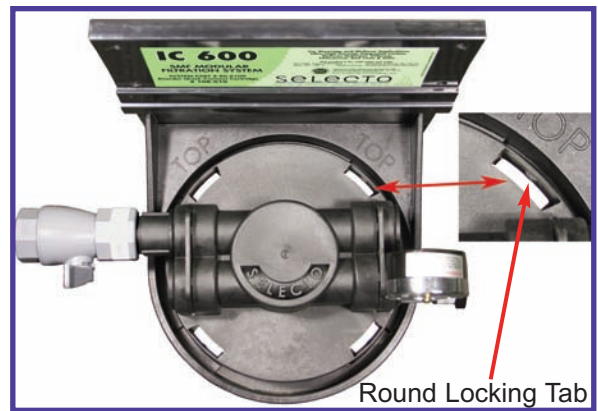
This type of leak should be repaired by removing the fitting and applying additional thread sealant compound. Do not attempt to repair by tightening the fitting more! Overtightening fittings into plastic parts may cause the plastic to crack. This type of damage is considered abuse, and not covered by the warranty!

2. Leaks at Junction of Modular Fittings to Filter Head

If leaking persists at the junction points, remove the retainer clip carefully by inserting a screwdriver or other object into the hole and gently prying "UP" to remove. Gently remove the leaking fitting by "pulling straight out". Apply additional lubricant (supplied) to the O-ring and re-insert the fitting by gently "pushing all the way in" until the shoulder on the fitting contacts the filter head. Examine the retaining clip for any cracks from removal and re-insert by "pushing straight down" until it is all the way in. If retaining clip is cracked or stretched in any way, discard it and use a new one (supplied). If the above procedure does not cure the leak, repeat the processes above, replacing the O-Ring (supplied). See diagram below.

3. Leaks Between Cartridge and Filter Head

While looking at the top of the filter system, grasp the cartridge and turn slightly counter-clockwise, when viewed from bottom and then back clockwise, making sure that the ears on the cartridge are fully engaged into the filter head. The round locking tab in the filter head will be engaged into the half-round recess in the cartridge ear. See diagram below.



4. If leakage persists, remove cartridge or bypass plug by following the procedures outlined in "Step 7" of the System Regeneration Instructions on Page 5. Inspect the O-Ring on the top of the cartridge for damage. If damaged, replace with a new O-Ring (supplied) and lubricate well with lubricant supplied. Replace the cartridge by following the procedures outlined in "Step 4" of the System Regeneration Instructions on Page 5. See diagram below.



5. Specifications

SMF SteamerGuard FLASH 5000

System Part: Replacement Regenerating Cartridge:
#81-6000 #108-068

SPECIFICATIONS:

- Rated Capacity (Gallons): 5,000*
- Grain Capacity: 87,700 gallons
- Flow Rate: Up to 5 gpm
- Min/Max Pressure: 40–125 psi.
- Min/Max Temperature: 40°–100° F
- Inlet/Outlet Size: 1/2 Inch Barbed Fitting
- Shipping Weight: 100 lbs.
- System Dimensions (W/D/H): 14/9/29
 Tank: 10" diameter x 38" tall

APPLICATIONS:

Capacity of 5,000* gallons (can be regenerated), protection of hot water and steam equipment including Flash and Boilerless Combi Ovens

*Dependant upon hardness levels. Regenerate every 6 months, or as needed. To calculate total system capacity in gallons for SteamerGUARD Flash 5000, use the following formula: Grain Capacity of System (87,700) ÷ Water Hardness Level (in grains) = Total System Capacity in Gallons



6. Warranty

CLAIMS POLICY

All claims, whether concealed or not, are the responsibility of the account. Any carton damage or shortages should be noted on the bill of lading at the time of receipt of the shipment, in accordance with I.C.C. Regulations. If the concealed damage or loss is noted by the account while unpacking the shipment, the carrier should be notified immediately, per I.C.C. Regulations.

SELECTO must be notified, in writing, including a copy of the carrier's claim form, of any damage or loss claims within 45 days. Failure to so notify SELECTO releases SELECTO from any liability.

WARRANTY POLICY

SELECTO warrants the Product to be free of defects in material and workmanship. Any defects will be remedied by SELECTO in the manner provided below.

The Plastic Housing(s) on the Product carry a five (5) year unconditional warranty for parts. Any modular changes or abuse voids warranty. Warranty together with any and all warranties implied by law, shall be limited to a duration of one (1) year on all other parts and components.

This Warranty does not apply to defects or damage due to abuse, neglect, misuse, accident, alteration, freezing, fire or damage not caused by SELECTO. In no event will SELECTO be liable for incidental or consequential damages from a defective unit or improper installation. **CHECK ALL CONNECTIONS FOR LEAKS BEFORE OPERATING THE UNIT.**

SELECTO's responsibility under this warranty shall be to repair, at its expense, any Product that is actually defective, or otherwise in violation of this Warranty. If SELECTO for any reason cannot repair a Product covered hereby within three (3) weeks after receipt of the defective unit, then SELECTO's responsibility shall be at its option, either to replace the defective Product with a comparable new unit at no charge, or to refund the full purchase price. SELECTO's obligations of repair, replacement, or refund are conditional upon return of the defective Product to SELECTO. If any Product covered hereby is actually defective within the terms of this warranty, then SELECTO will bear all the reasonable and proper shipping or mailing charges incurred in the return of the Product as set forth herein. If the Product proves not to be defective within the terms of this Warranty, then all costs and expenses in connection with processing of the consumer's claim hereunder shall be borne by the consumer.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. WARRANTY IS VALID ONLY IN THE CONTINENTAL UNITED STATES.

RETURN POLICY

All returns, whether defective or not, must be pre-approved by SELECTO, and accompanied by a Selecto Scientific, pre-approved valid, return goods number clearly marked on the outside of the shipping container. All returned goods must be shipped prepaid to SELECTO from point of origin. Returns not shipped prepaid or missing a returned goods authorization number, will be refused.

0 - 30 Days: 15% restocking fee
31 - 60 Days: 25% restocking fee
61 - 90 Days: 35% restocking fee
After 90 Days No Returns Accepted



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