

# SMF SELECTO MODULAR FILTER INSTALLATION & OPERATIONS MANUAL

## For Single & Multi-Cartridge SMF Series Systems Water Filtration Systems for the Food Service Industry

Installation and Operating Instructions covering all SMF water filtration systems including, but not limited to: SMF IC600, SMF IC600+, SMF IC620+, SMF IC600+/3, SMF IC620, IC620-2 & IC620-3, SMF IM600 & IM614, SMF IcePRO, SMF CoffeePRO, SMF Espresso 7500, SMF Espresso 12000, SMF IC600-S, SMF SteamerGUARD Flash 2000 & 4000, SMF SteamerGUARD 7500, & SMF SteamerGUARD 12000,



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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

The **Selecto SMF Series** systems are carefully designed to reduce sediment, dirt, and improve taste. These systems will also prevent scaling and corrosion in your equipment. Follow these instructions with care and we are certain that you will be 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, screwdriver, 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 6" minimum bottom clearance.

## 2. Installation (Continued)



### Mounting

1. Measure backplate of filter system and mark hole locations on wall (See Item 1).

a. Insure marks are level, then drill holes for anchors (if needed). Anchors must be properly matched, to allow for wet weight of filter system.

b. Secure SMF water filter system to wall.

### Water Connections

2. Use appropriate 1/2" fittings and tubing to allow for a flow rate of 5 to 10 Gallons Per Minute (GPM) (See Item 2). **Do not overtighten fittings into plastic parts! Warranty will be voided if parts are cracked and/or broken due to misuse and/or overtightening!** Use only Selecto approved, SMF Modular fittings!

b. 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!

3. From outlet of water filter 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 3).

\* 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

4. Check to be sure that the cartridge is properly installed. Do this by turning the cartridge counter-clockwise when looking at the bottom of the cartridge, and then back clockwise until the positive stop is felt. (See Item 4). (Also see Cartridge Changing Instructions (Page 5) and Troubleshooting Guide (Page 6))

5. Turn inlet ball valve to the "On" position (handle horizontal) slowly allowing water to fill filter system (See Item 5).

6. Purge the cartridge so that there is no air remaining by depressing the red button until a steady stream of water comes out (See Item 6).

7. Purge all air from the drink system water lines by pressing the plain water valve on drink dispenser for approximately 1 minute, or until no air, only water comes out.

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

### Cartridge Change Schedule

9. Change cartridge once yearly, or when the needle on the pressure gauge (See Item 7) stays in the "Red" area.

# 3. Maintenance

## Cartridge Replacement Schedule

1. When the line pressure downstream of the filter housing drops to 30 psi or below during system operation, the cartridge(s) needs to be replaced. Occasional dips below 30 psi and back are normal.
2. For system backplate label for ordering information for cartridge replacements.
3. See below for Cartridge Changing Instructions.



# 4. Cartridge Changing Instructions



### Step #1

Shut off inlet valve **5**. Push “Red” pressure relief button **6** located at left end of SMF filter system to relieve pressure until no more water comes out. Grasp filter cartridge, turn counter-clockwise 1/4 turn (when viewed from bottom) and pull downward about 1 1/2” to remove the filter cartridge. Properly dispose of old cartridge.

### Step #2

Remove and discard the “Red” sanitary cap from the top of the new 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. Turn on inlet valve **5**. Flush for one minute.

Lubricate O-Rings



It is recommended that the cartridge be changed at least yearly, when pressure drops significantly, or when bad tastes and/or odors return. See page 1 or system backplate label for proper replacement cartridge part number.

# 5. Troubleshooting Guide

## Leaks

All SMF Series Modular Filter Systems are factory pressure tested. It is normal to 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!

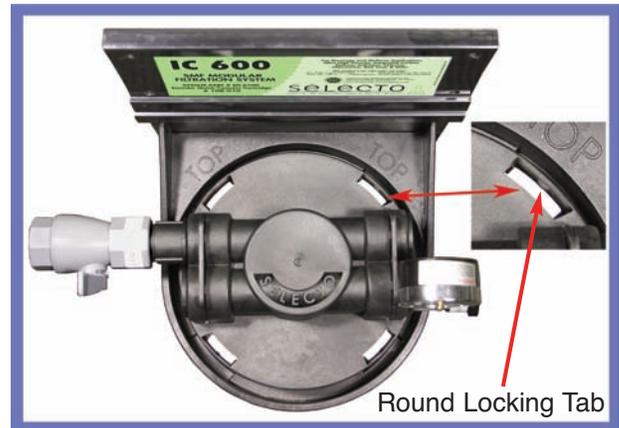
### 2. Leaks at Junction of Modular Fittings to Filter Head

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 by following the procedures outlined in "Step 1" of the Cartridge Changing Instructions on Page 5. Inspect the O-Ring on the top of the cartridge for damage. Replace with a new O-Ring (supplied) and lubricate well with lubricant supplied. Replace the cartridge by following the procedures outlined in "Step 2" of the Cartridge Changing Instructions on Page 5. See diagram below.



## 5. Troubleshooting Guide (con't.)

### Bypassing the Filter System

The purpose of the Selecto SMF Modular Filter System is to provide constant safe, clean ingredient water. Bypassing the system is not recommended. However, in the case of a damaged or clogged filter cartridge, it may sometimes become necessary to bypass the system. This may be accomplished by removing the filter cartridge by following the procedures outlined in "Step 1" of the Cartridge Changing Instructions on Page 5, and installing the "Bypass Plug" in its place. When installing the "Bypass Plug", it is necessary to properly lubricate the O-Ring using the lubricant provided. Install the plug the same as a replacement cartridge by following the procedures outlined in "Step 2" of the Cartridge Changing Instructions on Page 5. Be certain to properly engage the "Ears" on the "Bypass Plug" fully into the round locking tab in the filter head as outlined on the previous page. See the diagram at right.



## 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 or 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 and labor, except for modular changes and abuse. This 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 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 will be refused.

0 - 30 Days: 15% restocking fee  
61 - 90 Days: 35% restocking fee

31 - 60 Days: 25% restocking fee  
After 90 Days No Returns Accepted



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