

**DO NOT DISCARD - GIVE THIS MANUAL TO THE OWNER AFTER INSTALLATION**

- Installation must conform to all local plumbing codes and regulations.
- Do NOT use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Connect system to cold water supply only! Water temperature must not exceed 100°F/38°C.
- Do NOT solder plumbing connections attached to the filter housing or inlet valve. High temperature will damage these components.
- Do NOT over-tighten fitting connections into inlet valve or housing outlet. Always back-up valves and fittings with a wrench to avoid turning the valve.
- Allow a minimum of 3" under the housing to allow for sump removal and filter replacement.
- Do NOT mount the system near a heat source or above the electrical wiring or any device or area that would be adversely affected by water.
- Do NOT mount the system behind equipment. The unit must be easily accessible for filter replacement.
- Failure to change cartridges per recommended intervals with OptiPure replacement cartridges may lead to system failure and property damage.

**Introduction**

Your new OptiPure FX-22PCR+ FoodService Filtration System will cleanse and condition the tap water, providing optimum water characteristics for specified applications. Results include reduced equipment-maintenance requirements, longer equipment life and improved quality and consistency of your products. Proper system installation and routine filter changes ensure years of trouble-free operation and performance.

The OptiPure System is built with the finest and most advanced materials. Each system is quality inspected and pressure tested prior to shipment. With proper installation and routine maintenance, you should have years of trouble-free operation.

Please refer to this manual when performing routine filter changes. The instructions make periodic maintenance quick and easy, and ensure that you will receive maximum benefit from your system.

**System Specifications & Dimensions**

Inlet/Outlet Connections: 3/4" FNPT

All systems flow left (inlet) to right (outlet)

Chloramine Reduction Capacity: 100,000 gals (378,541 L)

**Operating Specifications**

Maximum Pressure: 100 psi/6.9 bar

Maximum Temperature: 100°F/38°C

Capacity: Change filters at gallon rating or at least every 6 months or when pressure gauge needle enters the red zone on the outlet gauge while water is flowing through the filter system under normal operating conditions.

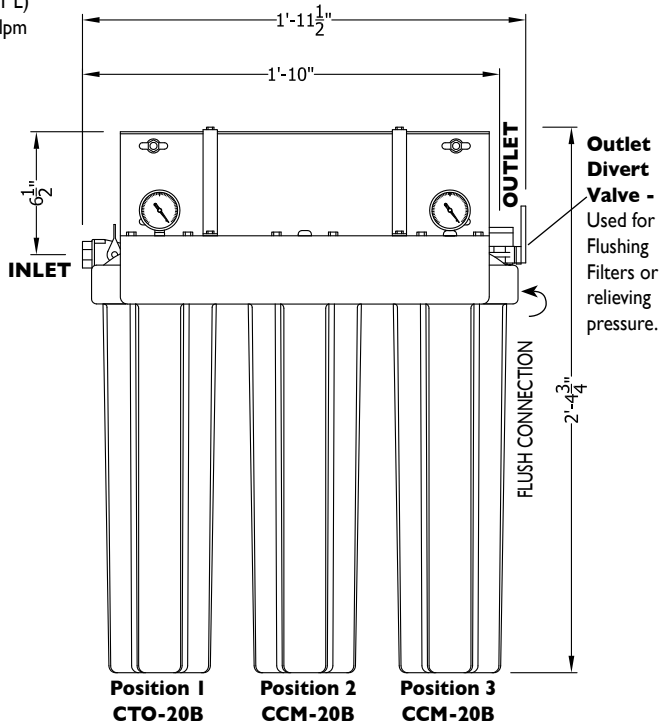
**Installation Precautions**

- Do NOT install the system backwards with the feed water line connected to the outlet.
- Do NOT use liquid pipe compounds for fitting connections. USE two to three wraps of teflon tape.
- Do NOT allow system to freeze. Turn off water supply to housing and drain housing if temperature falls below 32°F.
- Do NOT install system in direct sunlight or where system is exposed to harsh chemicals, or where it may be subjected to being struck by moving equipment, carts, mops or any other item that may cause damage.
- If water hammer is evident, install water hammer arrestors before OptiPure unit.
- Do not apply heat to the inlet ball valve, outlet divert valve or adapter screwed into valves. This will damage the valves beyond repair.

## Model FX-22PCR+

Capacity: 100,000 gals (378,541 L)

Service Flow Rate: 5 gpm/18.9 lpm



Stainless Steel beverage tubing adapters are included with systems to adapt to 1/2" I.D. beverage tubing. **IMPORTANT: DO NOT OVERTIGHTEN IN VALVES. USE 2-3 WRAPS OF TEFLON TAPE ONLY.**

### Installation Procedure

1. Turn off all equipment to be fed by the OptiPure System.
2. Locate water supply cut-off valve and turn off.
3. Install a 3/4" full-flow ball valve on the water supply side that will feed the water system.
4. Anchor the OptiPure System on a wall stud or suitable mounting material spanning wall studs.
5. Run a suitable line from the 3/4" full-flow ball valve at the tap water source to the inlet ball valve on the left side of the OptiPure system. Use 2-3 wraps of teflon tape and brace the inlet ball valve on the system with a wrench when connecting the feed water line. NOTE: DO NOT OVERTIGHTEN CONNECTION FITTING INTO BALL VALVE (a stainless steel 3/4"mpt x 1/2" hose barb adapter elbow is included to easily connect beverage tubing).
6. Select the appropriate size tubing for the equipment being fed and connect it to the 3/4" female pipe thread outlet of the OptiPure System (a stainless steel 3/4"mpt x 1/2" hose barb adapter is included to facilitate installation to beverage machine). Connect the tubing to the equipment at this time. A divert valve is included on the outlet side of the OptiPure system to facilitate flushing when changing filters. Install a piece of 1/2" id hose on the hose barb adapter on the bottom of the divert valve outlet.
7. With OptiPure inlet valve closed, slowly open the 3/4" full-flow ball valve at the tap water source. Check for leaks.
8. Turn the handle on the outlet divert valve down towards the male 3/4" thread with the 1/2" Hose Barb adapter. Open the system inlet feed valve and allow water to flush through system for 10 minutes at the specified system flow rate to allow air and any carbon fines to escape. NOTE: NO ACTIVATION IS REQUIRED FOR THE OPTI-PURE SYSTEM TO PERFORM PROPERLY. FLUSHING IS RECOMMENDED TO ALLOW AIR TO ESCAPE THE SYSTEM AND REMOVE ANY CARBON FINES PRIOR TO CONNECTING TO EQUIPMENT.
10. Open all water supply valves and check for leaks.
11. If there are no leaks, turn on equipment and check for normal operation.
12. Attach the Service Log to the Installed OptiPure System and fill in install date.

## Operation

With adequate pressure, normal operation of the OptiPure System is completely automatic. Dependable operation involves only monitoring of outlet pressure, periodic filter changes and service documentation.

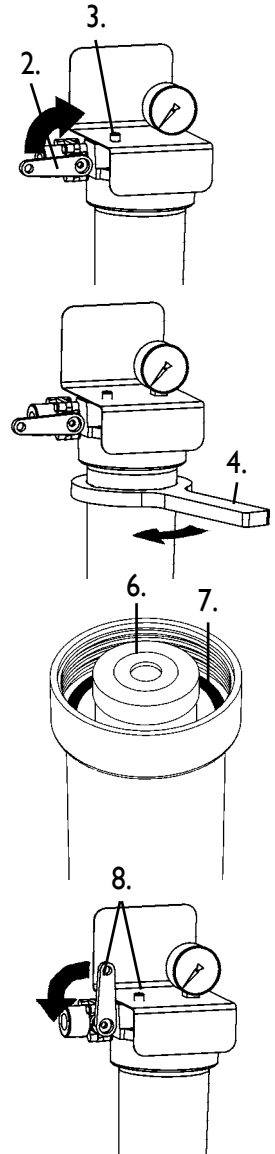
### Pressure Gauge Monitoring

Periodically monitor the pressure gauge on the OptiPure unit. If the needle on the gauge ever enters the red zone, it may be an indication that the filters have become clogged with sediment. Ideally, the pressure should never drop into the red zone.

### Filter Cartridge Replacement Procedure

**IMPORTANT:** Determine whether all equipment connected to the OptiPure System must be turned off prior to shutting off water supply from filters.

1. If required, turn off equipment.
2. Turn OFF water to OptiPure System by closing Inlet Ball Valve.
3. Press the red button or use outlet divert valve to release pressure.
4. Remove housing(s) - use filter wrench if necessary.
5. Clean inside of housing sumps with warm water. If desired, disinfect housings using a teaspoon of household bleach in a filter bowl of water. Let stand 5 minutes, and then discard and thoroughly rinse sump.
6. Insert new cartridges into filter housings. Match cartridge model numbers to model numbers on the system bracket.
7. Make certain the O-ring is properly positioned and reinstall filter housings (hand tighten only - the filter wrench is not required). Check O-ring for damage and replace if damaged or distorted.
8. Slightly open the inlet ball valve; push the red pressure relief button to release trapped air until a small amount of water comes out - release the red button and fully open the ball valve. If not equipped with a red pressure release button, use the drain divert valve on the outlet to bleed off excess air pressure.
9. Turn the handle on the divert valve on the outlet down and flush the new cartridges to drain or bucket for ten (10) minutes or until water runs clear.
10. **VERY IMPORTANT:** With water supply inlet valve OPEN and water flow confirmed, turn on connected equipment. Failure to supply water to equipment may cause serious damage.
11. Record filter change.



### Replacement Filter Cartridges

OptiPure Filter Systems are designed, tested, and certified with OptiPure filter cartridges with proven performance, size and operating capacities. Use of replacement cartridges other than those specified will void warranties and certifications, and may compromise equipment protection, water quality and cartridge life.

## Maintenance

The only routine maintenance your OptiPure System should ever require is periodic filter cartridge changes or replacement sump O-rings. Filter changes are necessary for optimum performance of your foodservice equipment. If the system sizing recommendations have been followed the OptiPure System is designed to provide a six (6) month filter-replacement interval on most tap water.

### Filter Change Frequency

Several situations will mandate filter changes. Complete filter sets should be changed when any of the following apply:

- Six (6) Months have passed since unit installation or previous filter change.
- Reduced water flow.
- Pressure gauge needle enters the red zone or drops below pressure required for equipment operation.

If filter change frequency is less than 6 months due to pressure drop, it may be necessary to add additional prefiltration or evaluate system sizing recommendations.

Part #	Replacement Parts
600-10022	20" Filter Sump
600-99004	O-Ring
520-12076	Outlet Divert Valve
520-12010	Valve, Inlet Ball
530-20019	Gauge, Pressure
600-99009	Wrench, Housing
600-99206	Pressure Relief Button Kit
160-52914	(Optional) Flush Valve Kit 3/4"

System	Cartridge	Qty
FX22PCR+	CTO-20B	1
	CCM-20B	2



FX-22PCR+ is Certified by IAPMO R&T to NSF/ANSI Standard 42 - Aesthetic Effects for the reduction of Chloramines, Chlorine, Taste and Odor.

Independently tested for nominal particulate reduction.

NOTE: Testing was performed under standard laboratory conditions; actual performance may vary. It is recommended that you have your water supply tested to determine your actual water treatment requirements.

For further information regarding OptiPure Certified systems, visit the NSF website at [www.NSF.org](http://www.NSF.org).

OptiPure warrants the quality of workmanship of their system components and assembly, except for replacement cartridges and membranes, for a period of 60 months. OptiPure Systems are designed, tested and certified with OptiPure cartridges. Use of replacement cartridges or parts other than those specified will void warranties and certifications, and compromise equipment protection, water quality and cartridge life.

**OptiPure, a division of AQUION**  
2605 Technology Dr., Bldg 300 Plano, TX 75074  
p: 972.881.9797; f: 972.422.6262  
e: [info@optipure.net](mailto:info@optipure.net) [www.optipurewater.com](http://www.optipurewater.com)