



**INSTALLATION AND OPERATION GUIDE**  
**PARALLEL 202 PREFILTER AND/OR**  
**SURGE TANK RETROFIT KIT PART No. EV9336-52**

**DESCRIPTION**

The Parallel 202 Pre-Filter is designed to remove larger dirt particles (10 microns-nominal) from the incoming water to a high flow, high volume fountain machine, a coffee maker and/or an ice machine in order to extend the life of the fine filters. The surge (accumulator) tank is a pre-pressurized, diaphragm-type tank designed to provide filtered water to a high flow, high volume fountain machine during peak periods when increased gallons per minute (GPM) and pounds per square inch (PSI) requirements are demanded.

**BENEFITS/FEATURES**

**Pre-Filter**

Ideal for water supplies with excessive dirt loads.  
 Reduces dirt and other particulate matter in supply water through pre-filter.  
 Water meter determines water demand and usage for all beverage using equipment.

**Surge Tank**

Assures a 12 gallon reserve for the extra capacity surge tank and 5 gallon reserve for the standard capacity surge tank of filtered water during peak demands.

**SPECIFICATIONS**

Refer to the following table for the most important Pre-Filter and Surge Tank characteristics and part numbers:

CHARACTERISTIC	PREFILTER	SURGE TANK
Dimensions (overall)	26-1/16" high x 28-3/4" wide x 8-1/2" deep (2-1/2" additional height required for cartridge change out)	Standard 15-3/8" diameter x 22" high Extra Capacity 15-3/8" diameter x 31-5/8" high
Inlet Connection	3/4" NPT female	3/4" NPT male
Service Flow Rate		
Maximum	10 gpm	10 gpm
Working Pressure		
Minimum	10 psi	10 psi
Maximum	90 psi (non-shock)	100 psi (non-shock)
Maximum Temperature (cold water use only)	100°F (38°C)	100°F (38°C)
Shipping Weight	32-1/2 pounds	Standard      Extra Capacity 28 pounds      35 pounds
Operating Weight	41-1/2 pounds	68 pounds      133 pounds
<b>PART NUMBERS</b>		
Parallel 202 Pre-Filter	EV9100-24	
Extra Capacity Surge Tank		EV9336-51
Standard Surge Tank		EV9336-50

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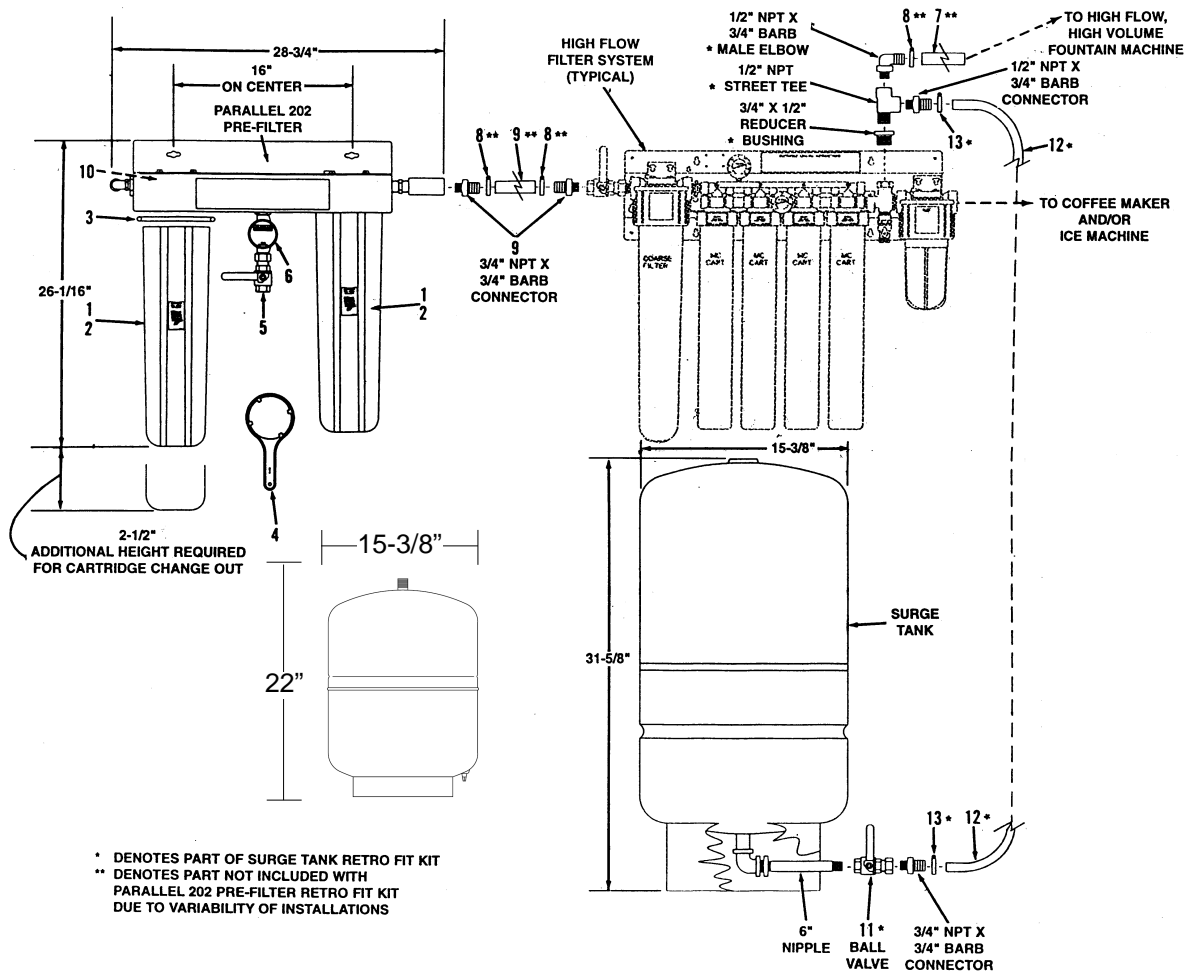


Figure 1. Parallel 202 Pre-Filter and/or Extra Capacity Surge Tank or Standard Surge Tank Retrofit Kit

The indentation system employed in the description column permits the determination of the next higher assembly to which the part pertains and also the detail parts which comprise any assembly. Assemblies are listed first with component parts of each assembly listed with the indentation of one additional space.

INDEX NO.	PART NUMBER	DESCRIPTION	QUANTITY PER ASSY
	EV9100-24	PRE-FILTER, Parallel 202	1
*1	EV3098-41	.SUMP	2
*2	EV9108-40	.CARTRIDGE, EC-204 (package of 6)	2
*3	EV3097-09	.KIT, O-ring (package of 3 #EV3093-50 O-rings)	
*4	EV3093-53	.WRENCH, Sump	1
*5	EV3034-83	.BALL VALVE	1
*6	EV3100-93	.WATER METER	1
**7	EV3047-10	.TUBING, Plastic (bulk length)	As Required
**8	EV3099-62	.CLAMP, Tubing	As Required
**9	EV3057-83	.CONNECTOR, 3/4" NPT x 3/4" barb	2
*10	EV3092-54	.PRESSURE RELIEF (part of 3101-08 cap)	2
*	EV9336-51	SURGE TANK, Extra capacity	1
*	EV9336-50	SURGE TANK, Standard	1
*11	EV3034-83	.BALL VALVE	1
*12	EV3047-10	.TUBING, Plastic (bulk length)	120"
*13	EV3099-62	.CLAMP, Tubing	2

NOTE: \*\* Items not included with parallel 202 pre-filter system due to variability of installations.

## PARALLEL-202 PRE-FILTER (EV9100-24) INSTALLATION

1. Shut off water and electrical power to all affected food service equipment.



**It is important that the installation of the pre-filter be clean and sanitary. All water-contact parts shall be immersed in chlorinated water (a capful of bleach per bucket of water) at the start of the installation procedure.**

2. Disconnect electrical power and water from the high flow filter system to be served by the Parallel-202 Pre-Filter. Close the inlet water ball valve on the high flow filter system. Disconnect the inlet water line from the high flow filter system ball valve.
3. Select a suitable location near the high flow filter system (not to exceed maximum of 10 ft.) for mounting the pre-filter and install mounting hardware 16" apart (pre-filter mounting plate may be used as a template). The pre-filters overall dimensions are 26-1/16" high x 28-3/4" wide x 8-1/2" deep. Allow at least 2-1/2" below the pre-filter to change out the cartridges. Be sure the mounting hardware is capable of supporting 42 pounds (pre-filter weight when in service).
4. Unscrew both sumps from the pre-filter using the sump wrench, if necessary. Do not lose the O-ring seals. Remove the cartridges and set aside with the sumps and O-rings (if removed).

**NOTE: Be sure to use a high quality pipe joint compound or Teflon® tape on all threaded connections.**

5. Install a 3/4" NPT x 3/4" barb connector into the the outlet tee of the pre-filter and the inlet water ball valve on the high flow filter system.
6. Measure distance between the barbs on the connectors and cut tubing (not supplied) to this length plus an additional 2". Slide two tubing clamps (not supplied) onto the tubing and install the tubing ends fully onto the connector barbs (not supplied). Fully tighten the tubing clamps to secure the tubing onto each connector barb.
7. Check that the sump O-ring is generously lubricated. If additional lubricant is required use only a high grade silicone lubricant. Install the O-ring in its respective groove in the sump, remove protective wrap, position the cartridge on the guide seat in the bottom of the sump, then firmly screw the sump into the cap and tighten with the provided sump wrench. **DO NOT USE A PIPE WRENCH.** Repeat this procedure for the second cartridge and sump.
8. Connect the inlet water line disconnected from the inlet water ball valve on the high flow filter system the inlet water ball valve on the pre-filter
9. Turn on water to the pre-filter, place the pre-filter ball valve in the on position (handle parallel to water flow), and press the red pressure relief button on one cap to open the pressure relief valve, purging air from the high flow filter system. When water vents out, release the button and repeat for the pressure relief on the second cap.
10. Inspect the high flow filter system for any water leakage, tightening all connections as required until no leakage is observed. Turn on water and electrical power to all affected food service equipment. The filter system is now in service. Always keep a supply of replacement cartridges on hand.

## SERVICE

No routine (daily, weekly, monthly, etc.) servicing of the pre-filter is required under normal operating conditions. The only scheduled servicing of the pre-filter is to change-out the cartridges whenever the water meter denotes a quantity of supply water (predetermined by the system requirements) has passed through the system.

## CARTRIDGE CHANGE

Replace filter cartridges when they become excessively dirty, when the pressure gauge on the high flow filter system indicates extremely low pressure during water flow, or when changes in taste and odor are detected.

1. Turn off inlet and outlet water valves and press the red pressure relief valve on the filter cap.

2. Unscrew the sump from the filter cap using the sump wrench if necessary. Remove the used cartridge and empty the water from the sump.



**The O-ring provides a water tight seal. Be sure the O-ring is properly seated and lubricated.**

3. If the O-ring on the sump feels dry, lubricate it generously with a high grade silicone lubricant and reinstall in its groove in the sump.
4. Clean the sump with a mild solution of unscented dishwashing detergent. **DO NOT** use soap, strong or scented detergents, chemical cleansers or abrasives.
5. Position the replacement cartridge on the guide seat in the bottom of the sump. Then firmly screw the sump into the cap with the sump wrench. **DO NOT USE A PIPE WRENCH.**

## **SURGE TANK**

**STANDARD: EV9336-50**

**EXTRA CAPACITY EV9336-51**

## **INSTALLATION:**



The surge tank must be installed on the effluent side of the high flow filter system. The surge tank has a  $20\pm 2$  psi air charge **WHEN EMPTY** for proper performance. This **MUST** be checked before installation and re-charged if necessary. Refer to **SERVICE**.

It is important that the installation of the surge tank be clean and sanitary. All water-contact parts shall be immersed in chlorinated water (a capful of bleach per bucket of water) at the start of the installation procedure.

1. Shut off water and electrical power to all affected food service equipment.
2. Disconnect electrical power and water from the high flow filter system to be served by the Surge Tank. Close the inlet water ball valve on the high flow filter system and bleed water pressure from the system using the flushing valve on the high flow filter system.



**The extra capacity (12 gallon) surge tank weighs 133 pounds and the standard (5 gallon) tank weighs 68 pounds when full. If the installation location is not on the floor, be certain its stand/shelf/platform is capable of safely supporting this weight.**

3. Select a suitable location near the high flow filter system (not to exceed maximum of 10 feet) for the surge tank. The surge tanks overall dimensions are 15-3/8" diameter x 31-5/8" high for the extra capacity surge tank and 15-3/8" diameter X 22" in height for the standard surge tank.
4. Disconnect the water line between the high flow filter system and the high flow, high volume fountain machine at the plated cross containing the activation valve.

**NOTE: Be sure to use a high quality pipe joint compound or Teflon<sup>®</sup> tape on all threaded connections.**

5. Install a 3/4" NPT x 1/2" NPT bushing into the the universal cross on the high flow filter system.
6. Install a 1/2" NPT tee into the bushing and orient as shown in figure 1.
7. Install a 1/2" NPT x 3/4" barb connector into the branch of the plated cross and a 1/2" NPT x 3/4" barb elbow into the run of the plated cross. Orient the elbow as shown in figure 1.
8. Reconnect a water line between the high flow filter system and the high flow, high volume fountain machine using appropriate connectors for the installation. One means is to slide a tube clamp onto the tubing (not provided) disconnected from the high flow filter system at the activation valve plated cross and install the tubing fully onto the newly installed 1/2" NPT x 3/4" barb elbow. Fully tighten the tubing clamp to secure the tubing onto the elbow barb.

9. Remove the protective cap from the nipple extending from the bottom of the extra capacity surge tank. For the standard capacity surge tank, remove styrofoam block, clean threads of styrofoam chips and remove plug from threaded, nipple fitting.



**For standard surge tank, make sure plastic plug located in nipple threaded fitting is removed to insure proper installation of surge tank.**

10. Install a ball valve onto the nipple and orient in any position convenient for operation of the handle. Install a 3/4" NPT x 3/4" barb connector into the ball valve.
11. With the surge tank at any convenient position near the high flow filter system, cut the tubing to length (maximum length 10ft.) and slide two tubing clamps onto the tubing. Install the tubing end fully onto the 3/4" NPT x 3/4" barb connector at the surge tank ball valve. Fully tighten one tubing clamp to secure the tubing onto the connector barb.



**Disinfection of the surge tank is required prior to placing it into service.**

12. Pour a capful of bleach into the tubing connected in step 11 onto the 3/4" NPT x 3/4" barb connector at the surge tank ball valve and then immediately connect the loose tubing end to the 1/2" NPT x 3/4" barb connector installed in step 7. Fully tighten the remaining tubing clamp to secure the tubing onto the connector barb.
13. Place the high flow filter system into service by opening the inlet water ball valve. Open the surge tank ball valve and allow the surge tank to fill for three minutes.
14. Connect a hose to the high flow filter system activation valve connected to the plated cross. Close inlet valve to the highflow system. Open the flush valve and allow the water to drain to waste for five minutes in order to expel chlorinated water from the surge tank or until no chlorine odor is detected. Then close the flush valve and open the inlet valve to the high flow system. If new cartridges installed, flush high flow system for five minutes. The high flow filter system and surge tank is now in service.
15. Inspect the system for any water leakage, tightening all connections as required until no leakage is observed.
16. After installation of the surge tank, it will be necessary to close the surge tank ball valve prior to removing cartridges from the pre-filter or high flow filter system.



**Before removing any filter cartridges always close the ball valve on the surge tank.**

## SERVICE

No routine servicing of the surge tank is required under normal operating conditions although periodic sanitizing (annual) is recommended. The only servicing of the surge tank occurs if the internal air bladder pressure (excluding water pressure) is not 20±2 psi when empty. A conventional tire valve is provided at the top of the extra capacity surge tank and near the bottom of the standard surge tank to monitor and adjust the internal pressure.

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