Warranty

PuROMax Reverse Osmosis

FSHS Inc.

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Port Charlotte, FL 33980

www.PuROMax.com

Warranty

Installation Instructions
Residential Reverse Osmosis
Drinking Water System
PuROMax Reverse Osmosis System has been tested to ensure it will operate correctly. The following periodic maintenance is recommended so your system will provide years of trouble-free service:

Replacement parts Replacement
PuROMax SF5-10 Pre-filters (sediment) every 6 mos.
PuROMax PCTO/2 Pre-filter (activated carbon) every 6 mos.
PuROMax R/O membrane every 2-3 years
PuROMax Aicro Post filter (carbon) Every 6 mos.

Components
The following components make up your PuROMax Reverse Osmosis Drinking Water System:
PuROMax SF5-10 Pre-filter (sediment) removes larger particles such as sand, silt, rust and scale.
PuROMax PCTO/2 Pre-filter (activated carbon) removes chlorine in the feed water to protect the reverse osmosis membrane.
PuROMax Reverse Osmosis Membrane reduces *dissolved* minerals, metals and salts. During the process harmful compounds are separated by the membrane and the reject water goes to waste (drain).
An activated carbon **post-filter** is provided for a final "polish" and to remove foul tastes, odors and to provide great tasting drinking water.

PuROMax filter housings and **R/O module** hold pre-filters and membranes. A **bracket** is provided so they may be mounted, typically below sink.

Storage tank holds filtered water, ready for use.

Automatic shut-off valve senses when the storage tank is full and closes the water supply to conserve water.
The dedicated **faucet** is used to dispense RO produced water when needed.

Feed water saddle valve is connected to the cold water line to supply water to the R/O system.

Waste water saddle valve is connected to the drain to remove reject water from the R/O system.

Tubing supplies feed and reject water.

PuROMax Fittings are used for necessary hose connections.

Tools The following tools may be necessary, depending on each particular installation:
3/8" variable speed electric drill; 1/8" &1/2" bits
1-1/4" porcelain whole cutter (if hole for second faucet is not provided).
Center punch and hammer
1-1/4" wood bit
Concrete drill bits
Phillips head and flat blade screwdrivers
Adjustable wrench
Crescent wrench
Teflon tape
Plastic tube cutter
Air pressure gauge (low pressure)
Air pump (hand)

System location
Your PuROMax R/O system may be installed under a sink, in a basement or other location, depending on available space. Do not install unit where temperatures fall below freezing. Do not install the drain saddle valve near a garbage disposal; otherwise, plugging of the waste water line may occur. If discharging into a utility sink or standpipe, an air gap must be provided. (Air gaps must be 1" or greater above the floor rim.)
Note: Plumbing codes may require the use air gaps. Please check with your local municipality.
Do not connect the R/O system drain line to the dishwasher drain line due to the fact back pressures may cause the air gap to overflow.

Site reparation
Installing dealers may want to speak with customers in advance and ask them to clean under the sink to save time. If a basement installation is advisable, check area to determine if extra fittings or hosing are required. Upon arrival, it is a good idea to check the condition of all plumbing for potential leaks and advice customer so there will be no misunderstandings in the event leaks occur.

Unit preparation
Open shipping carton, remove components and check that all parts are present. Check empty storage tank to be sure air pressure is approximately 7 psi. Adjust if necessary
Note: Hand tighten all fitting connections to be sure they are tight.

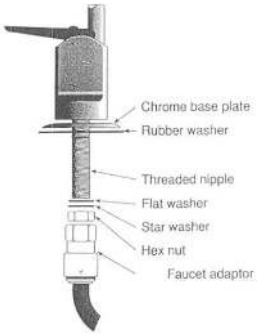
Installation steps
All plumbing must be completed in accordance with state and local plumbing codes. Some municipalities may require installation by a licensed plumber. Check local authority prior to installation.

1. Faucet installation
If the sink has a sprayer it may be disconnected for faucet installation. (Installing dealers should discuss this with customers.) A pipe cap or plug will be necessary to seal the sprayer connection. To make the faucet mounting hole (if sprayer or second hole is not used), check below to make sure the drill does not interfere with anything below. Center punch a small indent at the desired faucet location. (2" flat surface is required, not exceeding 1-1/4" in thickness.) Drill the required pilot hole for the chassis punch and tighten nut to cut the desired hole size. Clean up sharp edges. The faucet should be positioned so it empties into the sink and the spout swivels freely for convenience. If sink has a hole that can accommodate the RO faucet, no drilling is required. Proceed with mounting the faucet.

Porcelain, Enamel, Ceramic on Metal or Cast Iron:
Precautions must be taken to penetrate the porcelain through to the metal base and prevent it from chipping or scratching.
Tools required:
Variable speed drill
Porcelain cutter tool set
(7/8" or alternative size, 9/16")
Plumber's putty

Procedures:
1. Mark the center for the 7/8" hole.
2. Form shallow putty around hole area and fill with enough water to lubricate carbide drill bit.
3. Carefully drill pilot hole through all layers. (Use light pressure and slow speed.)
4. Insert pilot tip of spring-loaded porcelain cutter into pilot hole.
5. Drill porcelain / enamel using spring loaded porcelain cutter, making certain a complete ring has been cut through the porcelain / enamel to the metal base.
6. Cut away the inner porcelain / enamel disc down to the base metal. Make certain the cutter does not touch the outer rim of the cut porcelain / enamel. Continue with this bit to cut through metal until sink has been completely penetrated.

Note: Always use sharpened porcelain cutter to eliminate chips and cracks.



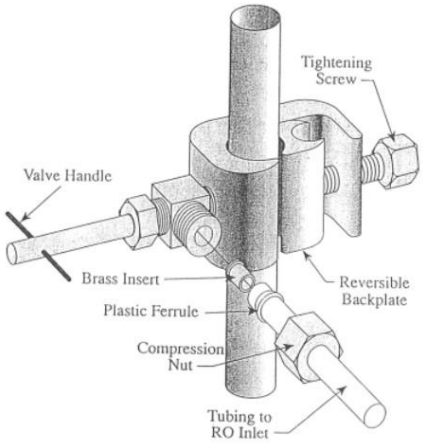
Faucet installation without air gap
Installation procedures for stainless steel sinks

Recommended tools:
Center punch
Variable speed drill
High speed drill bits
Greenlee chassis punch 7/8" (or 9/16" for non air gap faucets)
Protective gloves & eye protectors

Procedures:
A. Center punch small indent for hole.
B. Drill the required pilot hole.
C. Set-up the chassis punch per instructions and tighten nut to cut the desired hole size.
D. Clean up sharp edges with file.

2. Mounting the faucet
Disassemble hardware from the threaded nipple, except for chrome base plates and rubber washers.
(Rubber washers may be replaced with bead of plumber's putty for neater appearance.) Feed the threaded nipple through sink or counter mounting hole and orient the faucet. From below sink or counter, assemble the white spacer flat washer and hex nut on threaded nipple and tighten by hand. (Open end up; open side toward air gap). After checking faucet orientation, tighten with a wrench until secure.

3. Feed water valve and tubing installation
The saddle tapping valve which is supplied is designed for use with 3/8" to 1/2" OD soft copper supply tubing (plain or chromed) and rigid metal pipe. Do not use with flexible ribbed supply tubing which is too thin and requires special hardware.

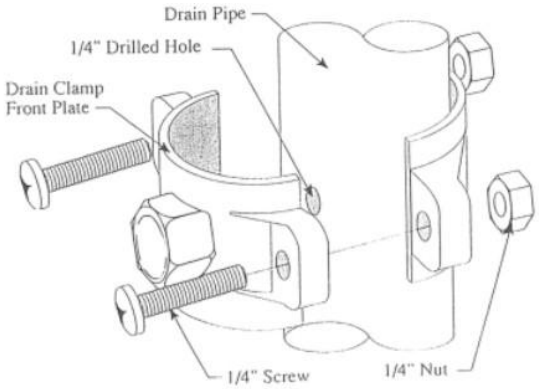


Self-taping feed water saddle valve installation

Installation procedures using soft copper tubing:
1. Turn off cold water valve from under sink or main water line valve for whole house.
2. Before installing saddle tapping valve, make sure piercing lance does not protrude beyond rubber gasket.
3. Assemble saddle valve on copper tubing.
4. Turn handle clockwise to pierce soft copper tube until valve is firmly seated. (Valve is closed in this position.)
5. Turn on water supply to pressure cold water line.
6. Snug nut/seal with wrench around valve stem
7. Connect tubing to feed water valve using brass compression nut, insert and plastic sleeve.

Saddle valve installations with metal pipe:
1. Turn off cold water supply.
2. Drill 3/16" hole at desired location.
3. At this point, make sure piercing lance does not protrude beyond rubber gasket.
4. Assemble saddle on to pipe, aligning with hole.
5. Turn saddle valve handle clockwise to close valve.
6. Tighten nut/seal around valve stem with wrench.
7. Connect tubing to feed water valve using brass compression nut, insert and plastic sleeve.
8. Turn on cold water supply.
9. To open valve, turn handle counterclockwise and check for leaks.

4. Drain saddle valve installation
Prior to proceeding it is important to inspect the condition of drain pipes to make sure they are not thin and frail.
Drain saddle valves are designed to be installed on standard 1-1/2" OD drain pipe. Install drain saddle valve above (and before) the trap and on the vertical or horizontal tailpiece. Never install a drain saddle valve close to the outlet of a garbage disposal or plugging of the RO drain line may result.



Drain saddle valve installation
Procedures
1. Position threaded half of drain saddle valve at selected location and mark for the opening.
2. Drill 1/4" hole at mark through one side of pipe.
3. Position both halves of drain saddle on drain pipe so threaded opening lines with hole.
4. Secure drain saddle clamp on valve with bolts and nuts provided. (Do not over tighten and make sure there is equal space between saddle halves on each side.)

5. Initial tubing connections
For convenience on under counter installations it may be advisable to complete under counter hose connections at this time.

6. RO component installation
Install RO membrane, carbon pre filer and sediment pre filter in modules of RO unit. (Refer to RO installation diagram.)

7. RO unit installation
The RO unit is normally mounted to the right or left sink cabinet sidewall, depending on where supply tank is to be located. Generally the unit is installed at the front of the cabinet and the tank at the rear. To mount the unit, elevate it at least 2" off the floor, level it and mark the location of mounting holes needed. Drill holes for mounting screws and install screws, allowing the mounting bracket slots to slip over them.
Note: If the cabinet sidewalls are not solid, unit may sit on the floor with screws to keep it against the cabinet in a vertical position.

8. Pre-fill, sanitizing and supply tank placement
Prefilling the storage tank is always recommended so there is sufficient pressure to check for leaks and sufficient water to flush the carbon post filter. It is important to use a sanitizer (such as Clorox) so tubing, fittings, tank and the faucet will be safe to use upon start-up.

To pre-fill storage tank follow these directions:
1. Connect storage tank to feed water line.
2. Open feed water valve and valve on tank.
3. Allow to fill for approximately three minutes.
4. Turn off feed water valve and tank valve.
5. Do not flush tank for approximately 15 minutes. The supply tank should be placed under the counter or within 10 feet of the RO unit.

Note: Tanks are pre-pressurized at 7 psi. Prior to installation, check, add or release as required.

9. Final tubing connections
With all components in place, complete final tubing connections using these guidelines:
Tubing should follow contour of the cabinets.
Cut tubing to desired length using square cuts and proper cutting devise.
Make no sharp bends.
Keep tubing from the RO unit to the tank and faucet as short as practical for good flow.

Under sink installations following installation diagram and the following procedures:
1. Connect tubing from faucet to RO unit.
2. Connect tubing from tank to RO unit.
3. Connect tubing from supply valve to RO unit.
4. Connect tubing from drain valve to RO unit.

Icemaker hookup (optional)
The RO drinking water device can be connected to any standard refrigerator ice maker or ice maker / water dispenser. (Do not connect to a commercial type bar ice maker.)
To complete this operation, connect a tee with shutoff valve into the faucet tubing and route tubing to the refrigerator. (Hooking up to an existing copper line is not recommended unless it is new installation.) Shut off ice maker by lifting lever prior to turning off the existing tap water supply line to the refrigerator. Turn on ice maker after the RO system has been drained several times and the tank has a full supply of water.
Note: Before any service is preformed on the RO system, turn off ice maker valve and ice maker unit. Turn back only after RO tank is full.

System start-up
Prior to start-up
1. Check all connections are secure.
2. Turn on feed water valve and check for leaks. (Turn off and correct leaks if leaks occur.)
3. Open valve on storage tank and open faucet until a steady stream of water flows.
4. Close faucet and wait five minutes to see if leaks result.
Note: When the system is first turned on, water may intermittently "spurt" from the air gap opening on the side of air gap faucets. This is common and should correct itself after an initial period of time.

Flushing system and checking operation
To make sure RO system is operating correctly, following these simple procedures:
1. Open faucet handle and allow tank to completely drain of sanitizing solution.
Do not use this water.
Note: When tank is empty, faucet will steadily drip. This is the rate the RO system processes water.
2. With faucet handle in "open" position, measure the rate of the steady drip from spout. Use a graduated cylinder and watch with a second hand to calculate approximate production in gallons per day.

Note:
Milliliters per minute X 0.38 = GPD.
Ounces per minute X 11.2 = GPD

3. Proceed to check reject flow rate by disconnecting tubing at drain connection and measure flow as described above.

Note: Proper ratio should be 2.5 reject water to 1 part of product water, on average.

4. Close faucet and re-inspect system for leaks.
5. Allow system to process water for approximately four hours, at which point tank will be practically full.
6. Open faucet again and allow tank to empty for a second time.
Do not use this water.
7. Wait another four hours to allow tank to re-fill.
Note: If no objectionable tastes are noticed after second tank draining, RO processed water is ready for use. Otherwise, drain tank and re-fill for a third time.
8. At this point supply line to ice maker connection (optional) may be opened.

Maintenance
Your PuROMax RO system contains filters and membranes which must be replaced periodically for proper operation. (Please see page 1 for general change out recommendations.)
Note: Change-out procedures may be amended depending on source water conditions.

To change filters and membranes follow these procedures:
1. Only use PuROMax brand replacement filters and parts. Not doing so could void any warranty
2. Close feed water valve by turning it clockwise.
3. Open faucet to allow holding tank to drain.
4. Loosen and remove filter housings using wrench provided and discard cartridges and or membrane.
5. Wash the inside of the housings using mild detergent and soft cloth. Thoroughly rinse all soap before reassembly.
6. Replace filter cartridges and membrane before sanitizing system.
Note: The system should be sanitized before installing the activated carbon post filter cartridge.

Sanitizing instructions
To sanitize system follow these procedures with the feed water valve closed:
1. Close feed water valve.
2. Open faucet to drain storage tank to sink.
3. Remove pre-filters & membrane from housings.
4. Use 5-1/4% unscented bleach, like Clorox.
5. Add one cap (2 tsp or 10 ml) of bleach to each pre-filter housing and the membrane housing.
6. Carefully reinstall housings without sediment, carbon pre-filter or membrane installed.
7. Slowly open feed water valve to allow water to mix with bleach and refill the housings and tank.
8. Open faucet to allow water to fill lines. Close faucet when water begins to drip from spout.
9. Let system stand for approximately 15 minutes.
10. After fifteen minutes do in the following order:
Close feed water valve.
Close holding tank valve while faucet is open to release pressure.
11. Carefully remove housings and empty them.
12. Remove protective wrap from pre-filters and membrane and install them in the appropriate filter housings. Hand tighten and snug with wrench if necessary.
13. Replace post carbon in-line filter if necessary.
Note: Be sure to check o-rings are in place when installing cartridges in filter housings. Damaged or incorrectly placed o-rings will cause leaks.
14. Disconnect product water tubing from the holding tank and put 50 drops of bleach into the tubing. Reconnect tubing.
15. Slowly open feed water valve. When water begins to drip from faucet, close faucet and open holding tank valve.
16. Discard the first two tanks of water produced,
as they contain chlorine. ***Do not use this water.***
17. When faucet is first opened air and carbon powder may be noticed. This is normal. Allow filter to flush.

Water quality
Water quality from an RO system is normally determined with a TDS Meter, which measures *total dissolved solids* in water, measuring conductivity. The results are normally measured in parts per million or milligrams per liter. Fewer dissolved solids results in higher quality water. RO membranes are rated by the amount of dissolved solids they reject, expressed as “rejection percentage”. For example if feed water contains 100 ppm of dissolved solids and the product water after the membrane has 10 ppm of dissolved solids, the rejection rate is 90%.

The formula is as follows:
Percent rejection =
Feed water TDS – Product water TDS X 100%
Feed water TDS

Water production
Product water rate
Usable water production from an RO system is designated *product water rate,* produced on a daily basis. The rate is normally described in gallons per day (gpd) or milliliters per minute (ml/min.).

Reject water rate
The flow of water to drain is designated as *reject water rate,* as measured in gallons per day (gpd) or milliliters per minute (ml/min.).
Using a graduated cylinder the formulas are:

Milliliters per minute X 0.38 = gallons per day / Ounces per minute X 11.2 = gallons per day

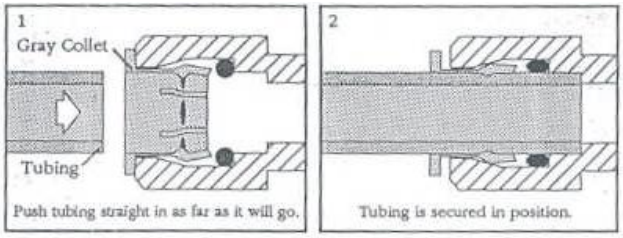
Reject ratio
The *reject ratio* is the amount of water produced compared to the amount of water flowing to drain.
The formula is as follows:
Reject rate
Reject ratio =
Product rate

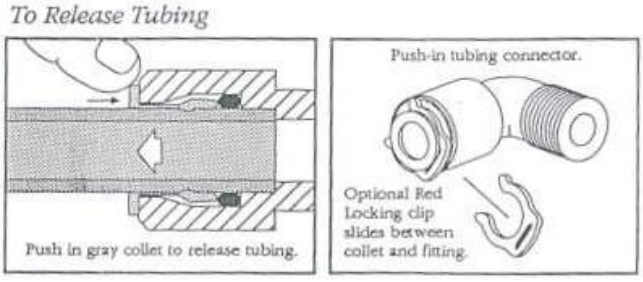
Percent recovery
The *percent recovery* is another way to measure the amount of water produced compared to the amount of water which is actually used.
The formula to determine *percent recovery* is as follows:
Product water rate X 100%
Percent recovery = Feed water rate
Note: Product water rate is the sum of the feed water flow rate and reject water flow rate.

Example:
Product water rate = 10 gpd
Reject water rate = 40 gpd
Feed water = 10 gpd + 40 gpd or 50 gpd
Percent recovery = 20%

Water pressure and temperature
Product water quality and production of RO systems is dependent on pressure and temperature. Typically, RO membranes are rated at standard conditions of 77□ F (25□ C) and 60 psi (4 bar) discharging to atmosphere. In general, the higher the pressure differential and temperature, increased quality and quantity of water is produced. These factors should be considered when sizing RO systems for a particular application.

PuROMax brand fittings
Many RO systems utilize PuROMax brand fittings. These user-friendly fittings provide superior performance and may be provided with this system. Proper use of these *push-in* fittings is shown below. Along with these fittings, all tubing selected must be of high quality and must be cut with a plastic tube cutter or sharp razor with a clean, square cut. Should a leak occur at a fitting, the cause is generally defective tubing. To fix a leak, relieve pressure, release tubing, cut off at least 1/4" from the end (square cut), reattach the tubing and confirm the connection is leak free. Each time a new connection is made, it is advisable to cut off 1/4" from the end of the tubing using these fittings.





Conventional fittings
If PuROMax Quick Connect fittings are not used, it is essential to install *inserts* at the ends of all tube connections when conventional fittings are used.

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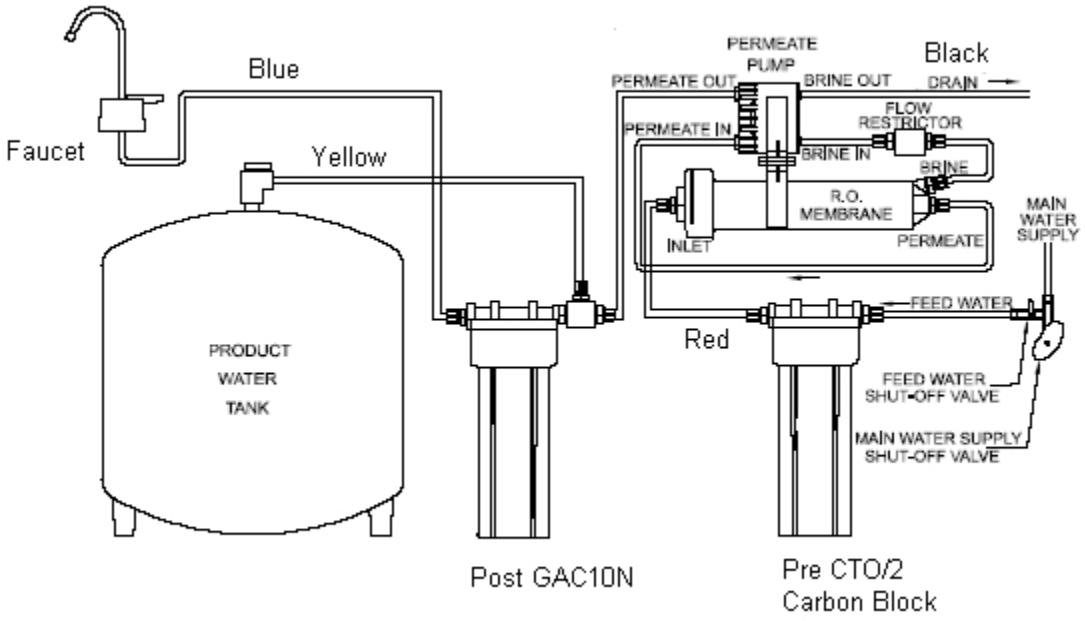
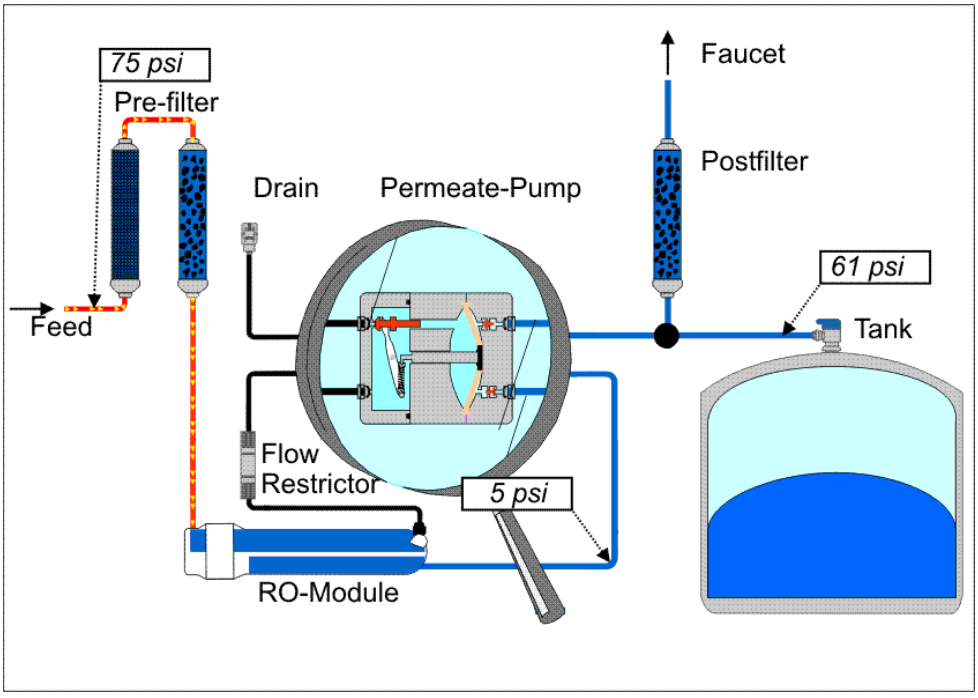
3 Stage Permeate Pump R/O 3/8





Parts list available upon request

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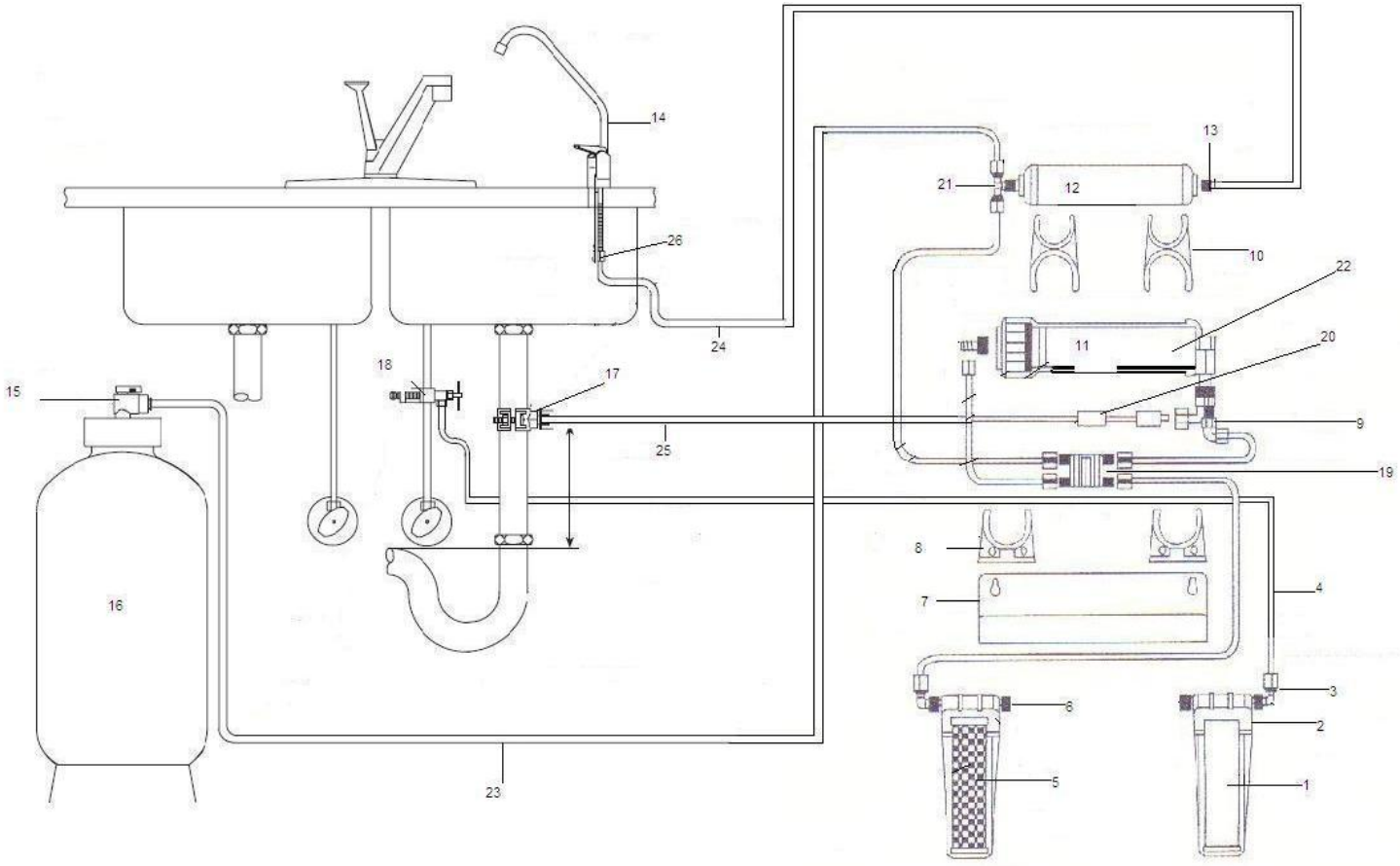
4 Stage R/O ¼



Number	Part Number	Discription	Quanity	Number	Part Number	Discription	Quanity
1	SF5-10	10 inch Sed. Filter 5 mic	1	14	WDF103B	Long Reach Chrome Faucet	1
2	FH4200W	White Filter Housing 1/4 ports	2	15	PR-CV1344	Quick Connect 1/4 Tank Ball Valve	1
3	PR-ME0404	Quick Connect 1/4 Elbow	2	16	Aqua-4	4 Gallon R/O Tank	1
4	PE-08-BI-0500F-R	1/4 Red Tubing	7ft	17	SC500B-14	Drain Clamp	1
5	PCTO/2	10 inch Carbon Block	1	18	SV-6	Self Peircing Feed Valve	1
6	PR-HN0404	1/4 Hex Nipple	1	19	PR-CV0201W	Automatic Shut Off Valve	1
7	FM-40	Double Bracket	1	20	FR-***	Flow Restrictor	1
8	C-2500W	Single Clip Membrane Housing	2	21	PR-MRT0404	Quick Connect 1/4 Male Run T	1
9	PR-CV3142	Quick Connect 1/4 tube x 1/8 thread with check valve	1	22	TFM-***	Membrane	1
10	DC-2500W	Double Clip Membrane Housing To Inline	2	23	PE-08-BI-0500F-Y	1/4 Yellow Tubing	5ft
11	MH18	Membrane Housing 1/8 ports	1	24	PE-08-BI-0500F-B	1/4 Blue Tubing	6ft
12	AICRO	10 inch Inline Carbon Post Filter	1	25	PE-08-BI-0500F-E	1/4 Black Tubing	6ft
13	PR-MC0404	Quick Connect 1/4 Male Connector	1	26	PR-FA04-716	Quick Connect 1/4 Faucet Adapter	1

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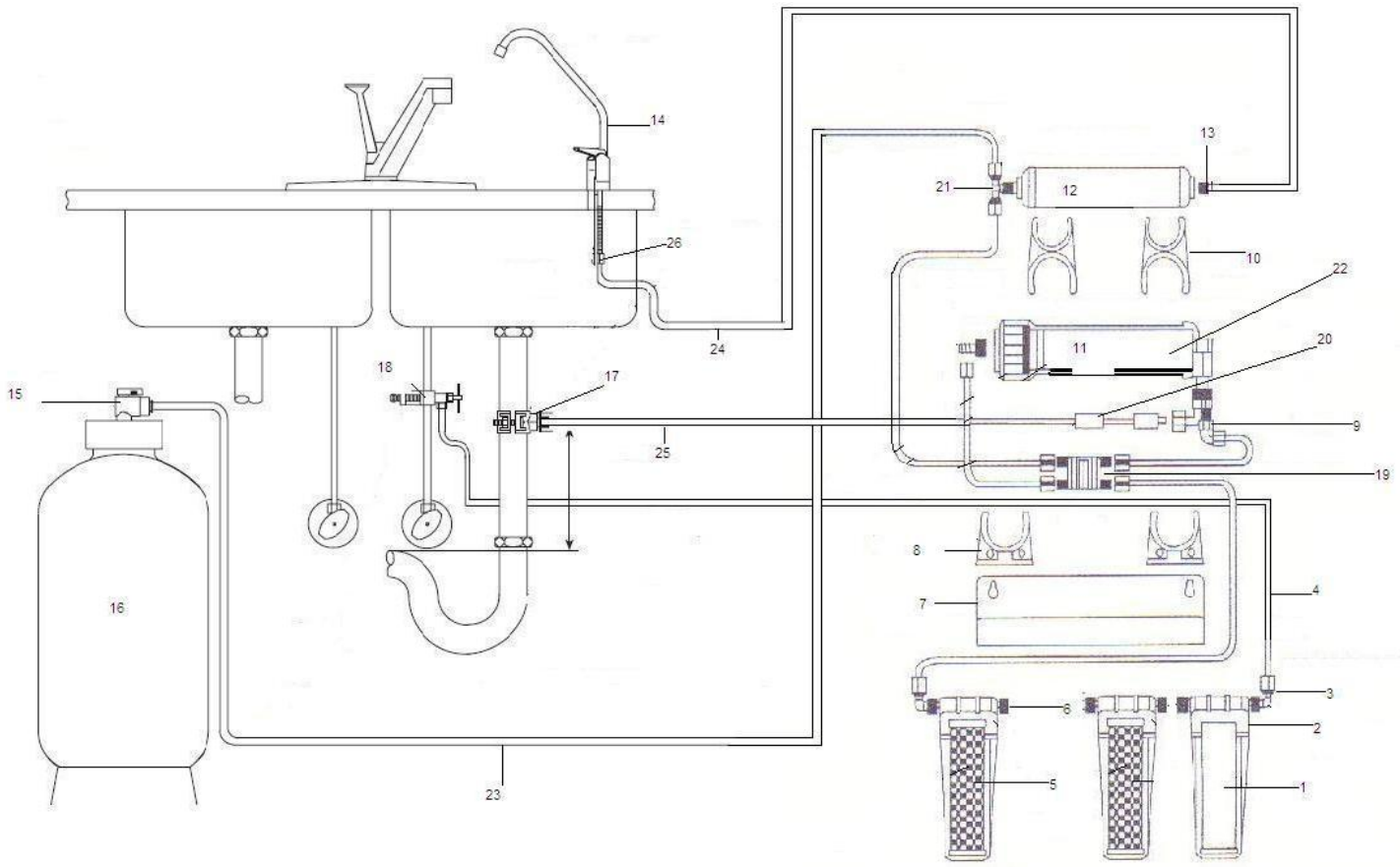
5 Stage R/O ¼



Number	Part Number	Discription	Quanity
1	SF5-10	10 inch Sed. Filter 5 mic	1
2	FH4200W	White Filter Housing 1/4 ports	3
3	PR-ME0404	Quick Connect 1/4 Elbow	2
4	PE-08-BI-0500F-R	1/4 Red Tubing	7ft
5	PCTO/2	10 inch Carbon Block	2
6	PR-HN0404	1/4 Hex Nipple	2
7	FM-60	Triple Bracket	1
8	C-2500W	Single Clip Membrane Housing	2
9	PR-CV3142	Quick Connect 1/4 tube x 1/8 th read with check valve	1
10	DC-2500W	Double Clip Membrane Housing To Inline	2
11	MH18	Membrane Housing 1/8 ports	1
12	AICRO	10 inch Inline Carbon Post Filter	1
13	PR-MC0404	Quick Connect 1/4 Male Connector	1

Number	Part Number	Discription	Quanity
14	WDF103B	Long Reach Chrome Faucet	1
15	PR-CV1344	Quick Connect 1/4 Tank Ball Valve	1
16	Aqua-4	4 Gallon R/O Tank	1
17	SC500B-14	Drain Clamp	1
18	SV-6	Self Peircing Feed Valve	1
19	PR-CV0201W	Automatic Shut Off Valve	1
20	FR-***	Flow Restrictor	1
21	PR-MRT0404	Quick Connect 1/4 Male Run T	1
22	TFM-***	Membrane	1
23	PE-08-BI-0500F-Y	1/4 Yellow Tubing	5ft
24	PE-08-BI-0500F-B	1/4 Blue Tubing	6ft
25	PE-08-BI-0500F-E	1/4 Black Tubing	6ft
26	PR-FA04-716	Quick Connect 1/4 Faucet Adapter	1

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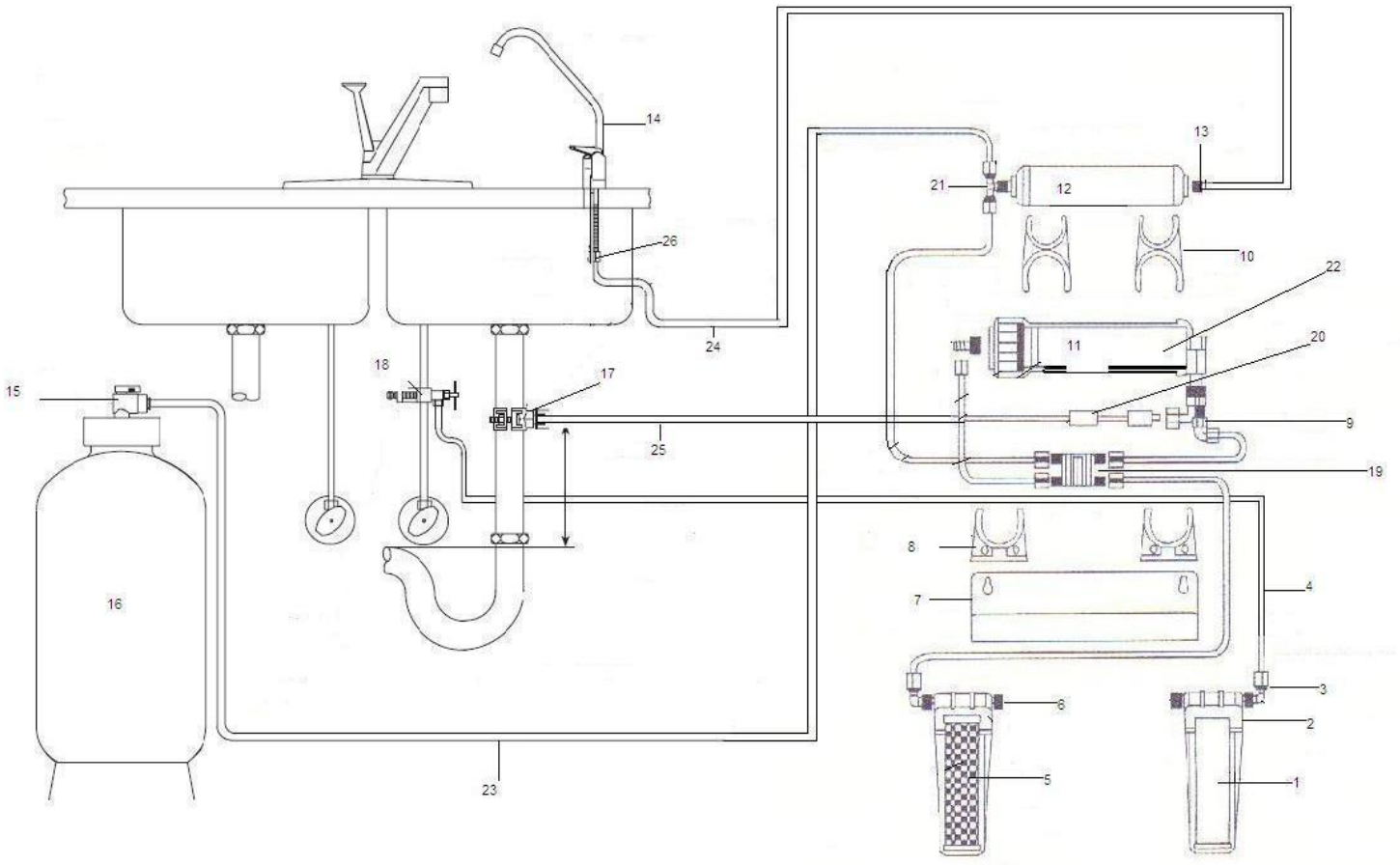
4 Stage R/O 3/8



Number	Part Number	Discription	Quanity
1	SF5-10	10 inch Sed. Filter 5 mic	1
2	FH4200W	White Filter Housing 1/4 ports	2
3	PR-ME0404	Quick Connect 1/4 Elbow	2
4	PE-08-BI-0500F-R	1/4 Red Tubing	7ft
5	PCTO/2	10 inch Carbon Block	1
6	PR-HN0404	1/4 Hex Nipple	1
7	FM-40	Double Bracket	1
8	C-2500W	Single Clip Membrane Housing	2
9	PR-CV3142	Quick Connect 1/4 tube x 1/8 thread with check valve	1
10	DC-2500W	Double Clip Membrane Housing To Inline	2
11	MH18	Membrane Housing 1/8 ports	1
12	AICRO	10 inch Inline Carbon Post Filter	1
13	PR-MC0604	Quick Connect 3/8 Tube x 1/4 Thread Male Connector	1

Number	Part Number	Discription	Quanity
14	WDF1038	Long Reach Chrome Faucet	1
15	PR-CV1364	Quick Connect 3/8 Tank Ball Valve	1
16	Aqua-4	4 Gallon R/O Tank	1
17	SC500B-14	Drain Clamp	1
18	SV-6	Self Peircing Feed Valve	1
19	PR-CV0201W	Automatic Shut Off Valve	1
20	FR-***	Flow Restrictor	1
21	PR-MRT0604	Quick Connect 1/4 x 1/4 x 3/8 Male Run T	1
22	TFM-***	Membrane	1
23	PE-12-BI-0500F-Y	3/8 Yellow Tubing	5ft
24	PE-12-BI-0500F-B	3/8 Blue Tubing	6ft
25	PE-08-BI-0500F-E	1/4 Black Tubing	6ft
26	PR-FA04-716	Quick Connect 1/4 Faucet Adapter	1

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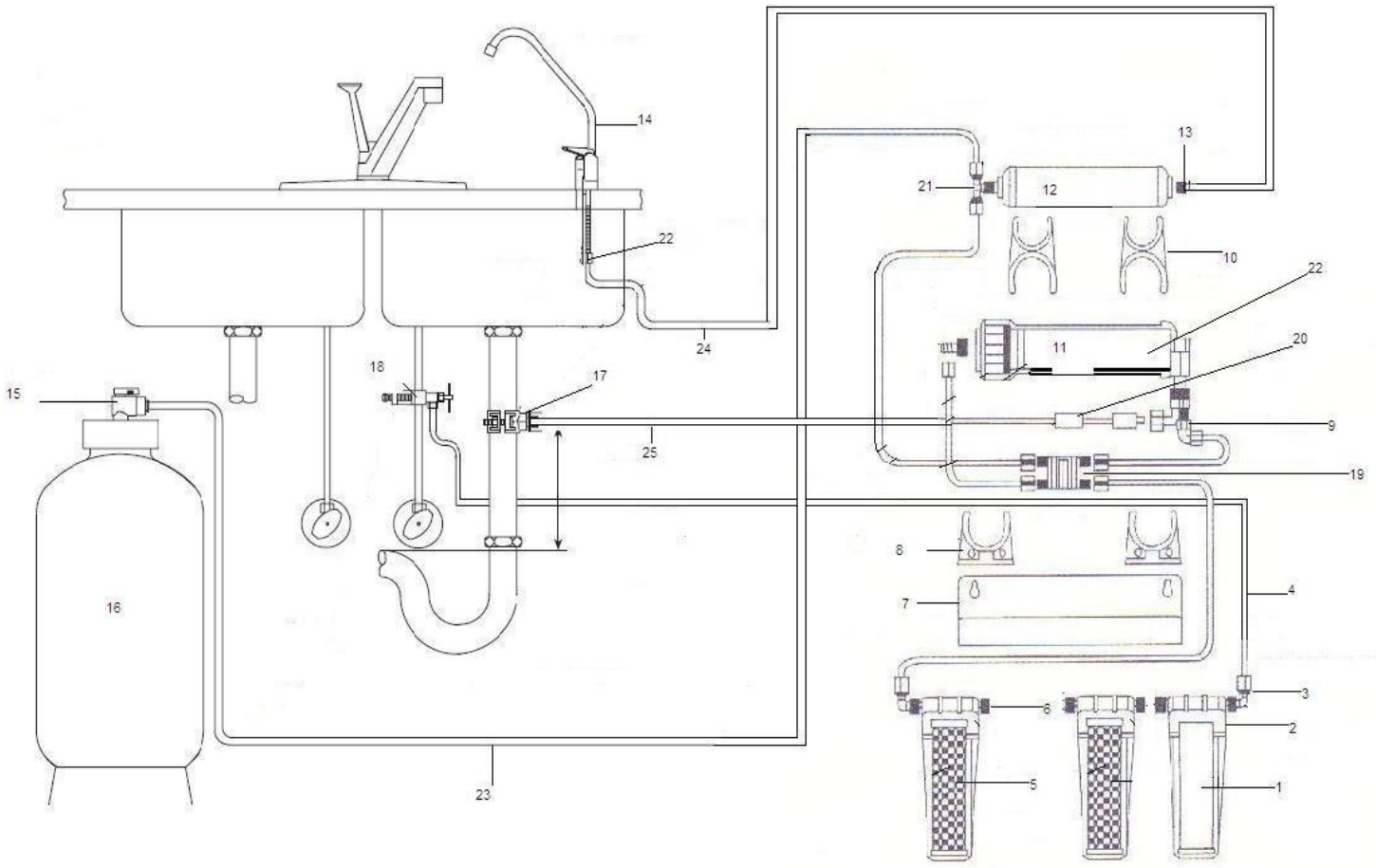
5 Stage R/O 3/8



Number	Part Number	Discription	Quanity	Number	Part Number	Discription	Quanity
1	SF5-10	10 inch Sed. Filter 5 mic	1	14	WDF103B	Long Reach Chrome Faucet	1
2	FH4200W	White Filter Housing 1/4 ports	3	15	PR-CV1364	Quick Connect 3/8 Tank Ball Valve	1
3	PR-ME0404	Quick Connect 1/4 Elbow	2	16	Aqua-4	4 Gallon R/O Tank	1
4	PE-08-BI-0500F-R	1/4 Red Tubing	7ft	17	SC500B-14	Drain Clamp	1
5	PCTO/2	10 inch Carbon Block	2	18	SV-6	Self Peircing Feed Valve	1
6	PR-HN0404	1/4 Hex Nipple	2	19	PR-CV0201W	Automatic Shut Off Valve	1
7	FM-60	Triple Bracket	1	20	FR-***	Flow Restrictor	1
8	C-2500W	Single Clip Membrane Housing	2	21	PR-MRT0604	Quick Connect 1/4 x 3/8 x 3/8 Male Run T	1
9	PR-CV3142	Quick Connect 1/4 tube x 1/8 thread with check valve	1	22	TFM-***	Membrane	1
10	DC-2500W	Double Clip Membrane Housing To Inline	2	23	PE-12-BI-0500F-Y	3/8 Yellow Tubing	5ft
11	MH18	Membrane Housing 1/8 ports	1	24	PE-12-BI-0500F-B	3/8 Blue Tubing	6ft
12	AICRO	10 inch Inline Carbon Post Filter	1	25	PE-08-BI-0500F-E	1/4 Black Tubing	6ft
13	PR-MC0604	Quick Connect 3/8 Tube x 1/4 Thread Male Connector	1	26	PR-FA06-716	Quick Connect 3/8 Faucet Adapter	1

"You Get MORE For LESS At FSHS"

PuROMax™

Returns

1. Customers are to provide the following in writing:
    A. Contact Name, Company Name
    B. Item number and reason for return
    C. Customers P.O. Number
    D. FSHS Inc. invoice number for item

2. All requests for return must be approved by FSHS Inc with an RGA number.

3. No products may be returned or processed without RGA #.

4. All items returned for credit or warranty inspection shall be sent freight pre paid. No collect shipments will be accepted. It is the customers responsibility to return items to our factory pre paid and assume the risk of damage or loss by freight company.

5. All items must be packaged properly, and membranes must be returned moist and sealed.

6. Items not currently offered for sale, as a current item or special order, will not be accepted for credit.

7. Authorized credits will be issued at the price paid, less 25% restocking charge.

8. Items approved for warranty will be repaired or replaced and returned freight pre paid at the discecression of FSHS Inc.

LIMITED WARRANTY

FSHS, Inc., warranties you're under sink Reverse Osmosis drinking water unit, to be free of defects in material and workmanship, for a period of time listed below, under normal use, within the operating conditions listed below. To resolve any warranty problems, you must first contact your local dealer; they in turn will contact the factory. Upon proof of purchase, ***FSHS, Inc.***, will repair or replace, at the factory, the defective part or unit, and return it to your local dealer. Freight to and from the factory is to be paid by the buyer.

The Pre and Post filter cartridges are warranted for manufacturers defects only and not for taste and odor problems. The membrane has a separate warranty as stated below. ***FSHS, Inc.***, limits the faucet warranty to a faucet repair kit which can be installed by the local dealer or the buyer. Any accessories, such as pumps, motors, and tanks shall be handled by the manufacturer of these parts and their warranty.

LIMITED WARRANTY

The **REVERSE OSMOSIS MEMBRANE** will be warrantied for a three month shelf life and a twelve month in use period, for a total fifteen months. Warranty begins from the date of purchase from the manufacturer. Membrane is warrantied against defects when used under standard operating conditions.

Membranes must be kept moist at all times. Defective membranes must be returned in a sealed bag and kept moist with an appropriate preservative solution or R.O. water. **Membranes returned dry, opened, or improperly packaged cannot be evaluated for warranty and will be returned to the sender at your expense.**

Standard Operating Conditions

Membrane type	CTA	TLC
Maximum feed water pressure	100psi	100psi
Water temperature	40-85F	40-100F
TDS	1200ppm	2000ppm
pH	3-9	3-11
Hardness	10-12 grains	10-12 grains

THERE ARE NO OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED AND THERE IS NO LIABILITY FOR CONSEQUENTIAL DAMAGES OF ANY NATURE OR KIND.

PC and WCW unit warranty is 1 year.
Champ units are 3 years.

SERIAL#_____