House Under Sink/Counter - Installation Instructions

PLEASE READ BEFORE INSTALLATION TO PREVENT DAMAGE

The Most popular location to install the processor is under the Kitchen Sink Counter. It may also be installed under a Bathroom Sink Counter or any other place that you have access to both a source of pressurized cold water, and a drain/sewer pipe. Installation for both Kitchen & Bathroom sink counters is covered in this manual.

Tools Needed

Electric Drill and 7/16" [10mm] Drill Bit.
Screwdriver.
Open End Wrench 9/16" or 14mm.
Marking Pen or Pencil.

Other tools may be helpful.

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Caution - Carefully Unpack The Processor

Exercise care when unpacking to prevent damage.

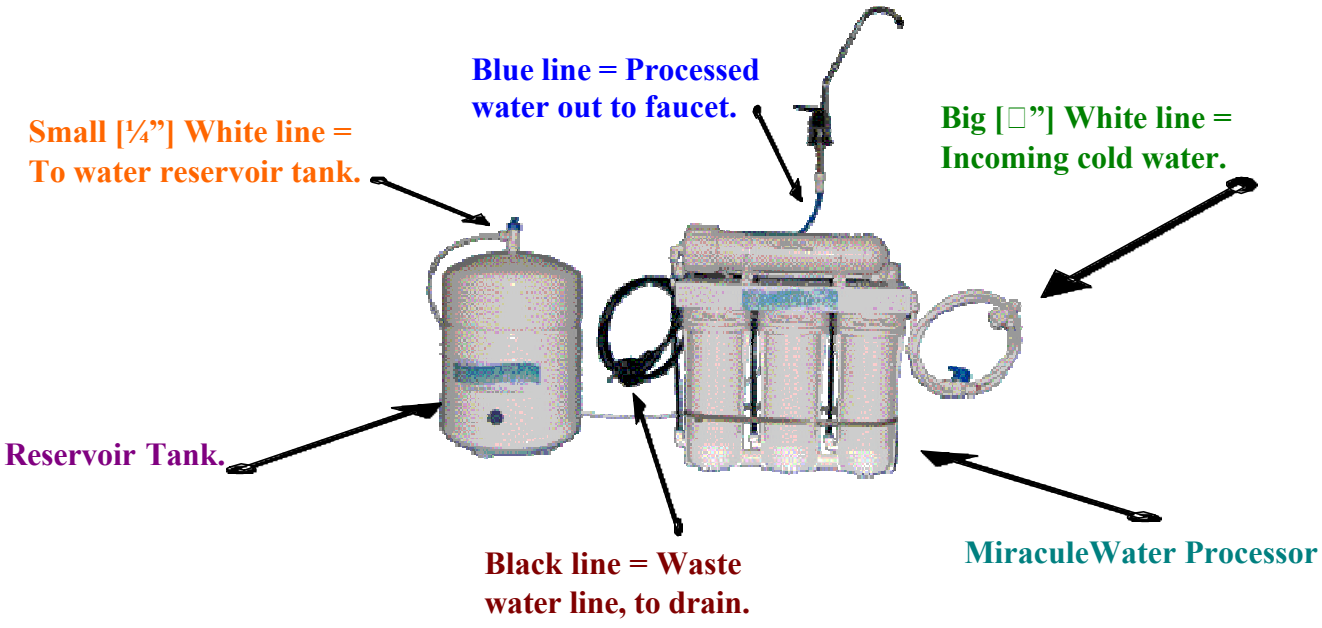
Do not lift the processor except by its metal frame.

Remove tape and or other coverings from the connections.

The location where the processor is installed should be at least 6 inches away from electrical devices and electrical cords.
The installation location should not experience temperatures outside of the operating range of 36° - 90° F.
Incoming water temperature MUST NOT EXCEED 86° F [24.4°C]. ANY AMOUNT OF HOT WATER WILL CAUSE DAMAGE TO THE PROCESSOR THAT IS NOT COVERED UNDER THE WARRANTY!!!
Incoming water pressure must be below 80 PSI [5.5 Bar]. Install a pressure regulator if needed. MiraculeWater stocks suitable pressure regulators should you need one.

Identify Processor Connections

Take a look at the diagram below and identify the water lines.



Location & Routing Of The Tubing

The most popular location for installation of the Water Processor is in the kitchen. It can be installed anywhere that you have access to both a source of pressurized cold water and a drain/sewer pipe, preferably no more than 10 feet from the Source Water.

Avoid routing water lines where they may be exposed to electrical and magnetic fields, heat or walked upon. Avoid sharp bends that may cause the line to kink and thereby restrict the flow of water to or from the processor.

Magnetic Fields:

In planning the routing of the tubing between the Water Processor and source water/drain, take into consideration the magnetic fields around electrical wires, motors and magnets such as magnetic cabinet door latches. To prevent driving off the ORME Ions before the water reaches your processor for concentration, be sure to place the water line at least 6 inches (15 cm) away from magnets, electrical wires and electric garbage disposals and at least 2 feet (0.6 meter) from the refrigerator and other electrical appliances.

Cut off Excess Tubing:

For optimal performance of the Processor, use a sharp razor blade to cut off any excess length of tubing from incoming, waste, tank, and processed water tubes, to maximize performance.

Only For Remote Location Installations

More Than 10 Feet from Source Water:

The BLACK (waste water line) and WHITE (source water line) 3/8" diameter lines may be extended by purchasing additional line lengths from a supplier. To prevent leaks, if additional line is purchased, make sure it is of similar quality to the line supplied with your Processor. MiraculeWater provides you with Polyethylene Tubing that meets or exceeds all water quality noncontamination specifications world-wide.

Limits: ***It is recommended that the location for the processor be no further than 30 feet (10 M) from the source water/drain location. Further extension of the line length can cause a malfunction due to a change in the Processor's internal pressure. To ensure adequate drainage of the waste water the BLACK Tubing should be no smaller than 3/8" and not uphill for more then 6 feet.***

Drill the Holes to Route the Lines:

Drill any holes needed to route the WHITE Source Water Line and the BLACK Waste Water Tubing through cabinets, floors, walls, etc. Consult your local hardware store for the proper drill bit to use for the type of material you are drilling through, e.g., wood, plastic, metal, concrete, etc.

Route the Tubing from Source Water/Drain Location: ***If you have had to drill any holes to accommodate the routing of the Water Tubing between the processor and the source water/drain location, you will have to remove the attachment on one end of the WHITE and BLACK Tubing in order to install the Tubing through the holes.***

> ***WHITE Source Water Line:*** ***See page 6 for instructions/photos on how to remove the T-shaped Source Water Line Adapter from the tubing. Pull the tubing through the drilled hole/s.***
>
> ***BLACK Waste Water Line:*** ***If needed, see page 9 for instructions/photos for removing the Saddle Clamp from the tubing. You simply unscrew Fitting Nut from the Saddle Clamp and pull the Clamp and Nut off the tubing. Pull the tubing through the drilled hole/s.***

Determine Location For Processed Water Spout

Find a convenient location for the processed water spout. Make sure you have sufficient room for the water line connection underneath the sink/counter. The spout swivels around 360°, so it is advisable, but not necessary, to overhang the spout over the sink for most of its arc of travel. Often it is easier to use the big black plastic washer that comes with the spout to assist in determining the location of the water spout as shown in the picture below. Mark the location as shown with a magic marker or pencil.

Drill The Hole For The Processed Water Spout

Note: If you have a stainless steel, fiberglass, or plastic sink, the spout may be mounted very easily directly to the sink itself, as shown in the sample photos. For a fiberglass or plastic sink, a 'Forstner' drill bit is recommended, but any drill bit will normally work. For a stainless steel sink, a drill bit made for metal is recommended. If you have a porcelain sink, it may be more difficult, though not impossible, to drill the required mounting hole without a drill specifically made for use on porcelain. Drill bits made especially for porcelain are sometimes available at your local hardware or tool supply store. If you have a porcelain sink, for most people it will probably be easier to mount the water spout into the surrounding countertop, as near to the sink as possible, making sure that the end of the spout overhangs the sink.

For a stainless steel sink, mark the location of the hole with a pencil or magic marker.
If available, then use a sharp center-punch to make a dimple in the metal to keep the drill bit from "wandering."
Use a 7/16" [10mm] bit made for drilling metal. Exercise care to drill all the way through the sink and wood under it, if the location you chose has wood under it.

The picture above shows a drill bit made for metal and appropriate for stainless steel sinks. The picture to the right shows a 'forstner' bit recommended for fiberglass and plastic sinks.

Install Processed Water Spout In Hole

Remove the blue line and fitting by twisting the fitting from the spout assembly, leaving the blue line attached to the fitting. Then remove the hex nut, metal & plastic washers from the spout.

Next, insert the spout down through the hole from the top and replace the plastic & metal washers from the bottom and secure with the hex nut.

At this point use the wrench to tighten the metal nut a couple of turns after the nut is finger tight.

Re-attach the fitting and blue processed water hose as it was before, taking care not to cross-thread the fitting.

Tighten fitting securely by hand, take care not to over-tighten, the fitting has a built in o-ring seal and does not require sealer or excessive tightness to seal properly.

Pictures of Properly Mounted Spouts

Cold Water Line - Source Water Line

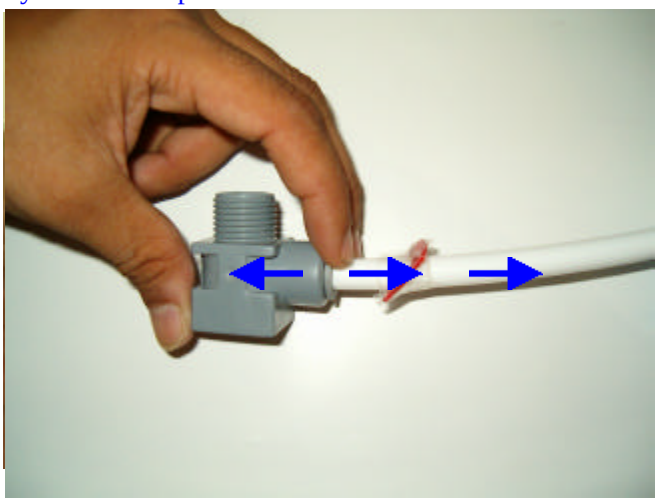
The adapter(s) supplied by MiraculeWater may be White, Grey, Black or some other color.

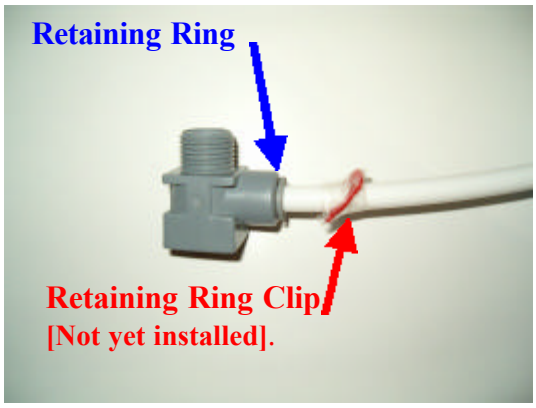
Shut off the cold water feed valve and disconnect the cold water feed line at the top of the cold water valve. Care should be exercised to insure that the cold water line and valve is used. Making a mistake at this point and hooking the processor up to the hot water supply will result in damage to the processor. A simple way to determine that you have selected the proper line is to turn the cold water on at the sink, if you have selected the proper line, there will be no cold water at the sink faucet if you turn it on. *In some cases a visit to the local hardware store may be needed to purchase an adapter for your particular installation. Use only adapters that cause no restriction in water flow.*

Next, remove the white flexible tube from the adapter fitting on the processor's source water line by using your thumb and forefinger to hold the retaining ring firmly into the fitting while gently pulling the tube out of the fitting.

Succeeding pictures demonstrate the needed action.

Note: When the retaining ring is properly held into the fitting, the tubing releases and comes out relatively easily. When the retaining ring is in the out position the tubing is locked into the fitting. The clip is only an extra safety measure to prevent leaks.





Tubing removed from Adapter Fitting.

Screw adapter onto the cold water valve as shown to the right, and then screw the cold water sink line onto the adapter as shown.

Note: Both the cold water sink line & the adapter have an o-ring seal and do not need to be tighter than hand tight.

Exercise care - Excessive tightening can cause leaks.

Leaks in this area are usually caused by damaged rubber seals, excessive tightening, and corrosion. Firmly insert the white tubing into the adapter.

Now *firmly* insert the tube back into the adapter and insert the retaining clip between the adapter and the retaining ring as shown below.

Using the shortest possible length of tubing by trimming the excess length from the incoming tubing increases the processors efficiency.

The below photo shows the clip installed.

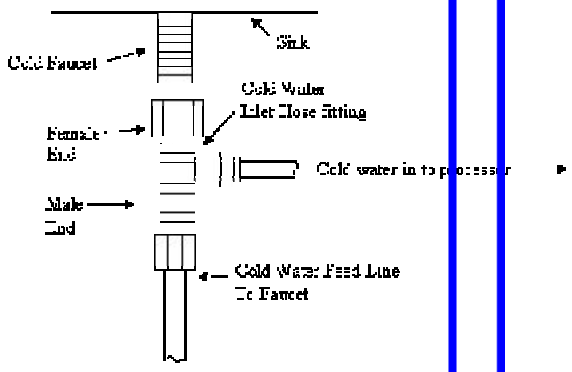
Insuring that the valve is turned completely on after the install will help to supply the processor with needed water pressure.

In some cases the connections to the water faucet will be entirely 3/8" and the grey fitting will not work. In these cases MiraculeWater has supplied a 3/8" connector similar to the ½" connector shown above.

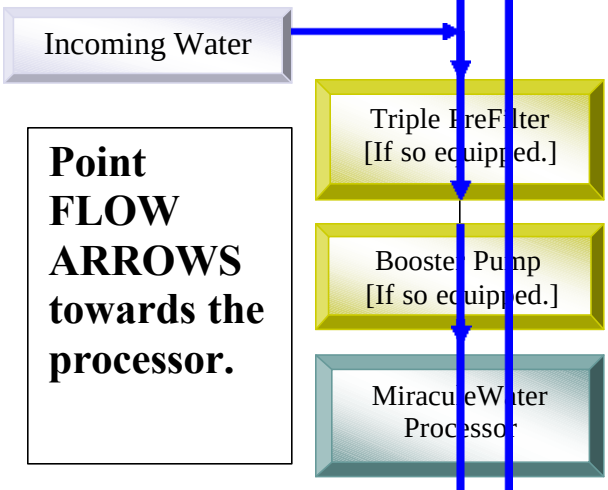
Alternative Install

Alternatively the cold water connection can be made to the fitting on the bottom of most faucets.

Attach the female side of the cold water inlet hose fitting to the cold water faucet that you just removed the feed line from, and then re-attach the cold water feed line to the male side of that fitting. Refer to detail sketch.



Triple PreFilter & Booster Pump



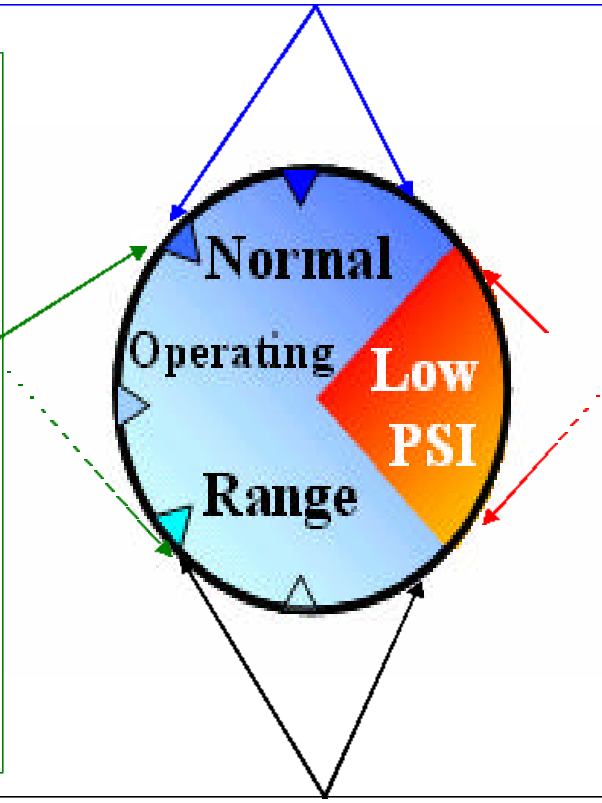
Point FLOW ARROWS towards the processor.

The Triple PreFilter is always installed closest to the source water. The Booster Pump goes before the processor and after the PreFilter if so equipped. Direction of FLOW is marked on both the Triple PreFilter and the Booster Pump. Point FLOW ARROWS towards the processor.

The Filter Replacement Indicator
&
Line Pressure Indicator Gauge

If the needle is at the top of the operating zone when the processor is running and producing product then it is being operated at or near the maximum rated pressure and should produce finished product much more quickly and efficiently than at lower pressures.
The needle travels clockwise around the dial starting at about 2 o'clock.
The further the needle is into the operating range the more water the processor will produce and the better the product water in most cases.

Processors operated with the needle in this area of the operating range will provide close to half of their rated maximum capacity if the water is not to cold.
When the processor is shut down and the holding tank full, the needle should be in this range or higher. If not then increase incoming water pressure.



If at any time the needle is in the red zone then the internal pressure of the processor is below recommended minimum operating pressure either because the filters have become plugged up or due to low source water pressure. Processor operated in the red zone will not give satisfactory performance. Customers must increase their water pressure or change their filters as the particular case demands to cause the needle to move into the blue zone.

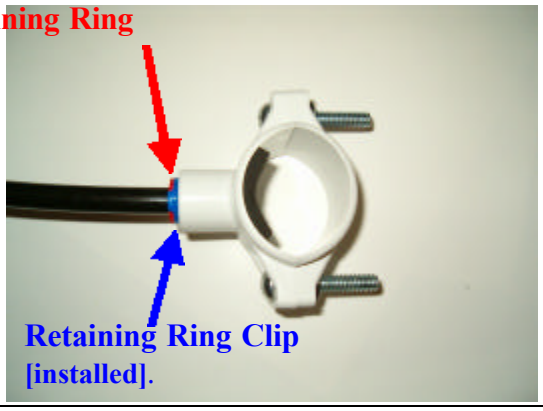
Processors operated with the needle in this range will produce only a few gallons of finished product per day. This is the bottom of the operating zone for incoming water pressure and operating pressure.

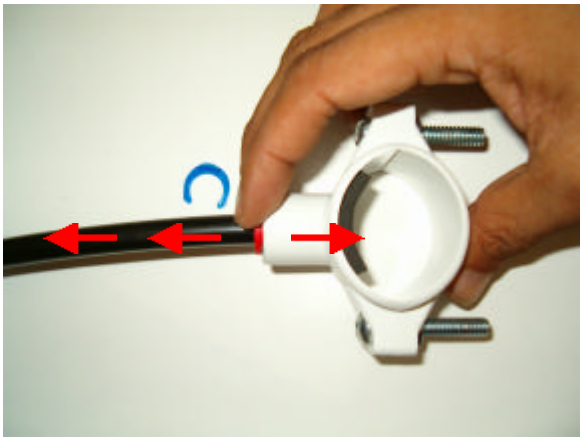
When the processor has filled the holding tank and shut down, the needle will automatically move to indicate the total source water line pressure. When the filters are clean this should be about 2 hours on the clock in movement. As the filters become clogged up, the amount of movement will become greater until the needle is in the red zone indicating that the first 3 filters [base pack] have been exhausted and must be replaced. Customers with higher water pressure will get longer life out of there filters. Those with higher water pressure will also have an overall better finished product.

Install The Waste Water Line

Remove the retaining ring clip from the fitting.

Succeeding pictures demonstrate the needed action.

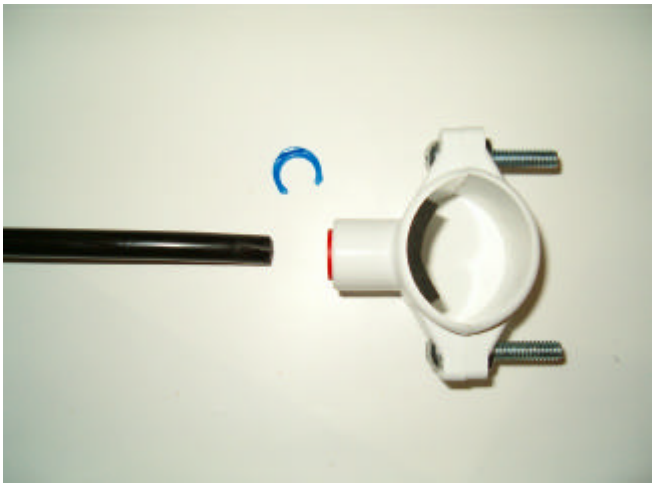




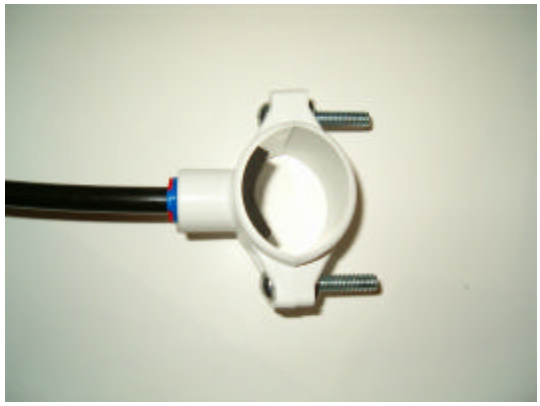
Once the retaining clip is removed, use your thumb and forefinger to hold the retaining ring firmly into the fitting while gently pulling the tube out of the fitting.

Note: When the retaining ring is properly held into the fitting, the tubing releases and comes out relatively easily. When the retaining ring is in the out position the tubing is locked into the fitting. The clip is only an extra safety measure to prevent leaks.

Tubing removed from adapter Fitting



Waste Water Line Saddle Clamp.



Next, mark a spot on the drain pipe about 6 inches below the sink drain with a magic marker. ***For the quietest operation, the hole may be drilled after the 'U' in the sink trap.***

Drill a 7/16" [10mm] hole at this location.

If you have varnish or corrosion on the drain pipe, clean & lightly sand drain pipe around hole with very fine sandpaper (400-600 grit) to help prevent a leak at this location.

Next make sure the thin foam-rubber gasket is in place around hole in the saddle clamp.

Mount the saddle clamp around the drain line pipe where the hole was drilled as shown below.

Use the Philips screwdriver to tighten the screws evenly and securely. Do not over tighten! Install the waste water line.

Note: An easy way to verify that you have properly aligned the saddle clamp with the hole is to insert the screwdriver into the hole.

Attaching The Processor Reservoir Tank

Attach the processor reservoir holding tank to the fitting on the small white tube by screwing it into the fitting. Hand tighten the fitting to the tank. No wrench is required.

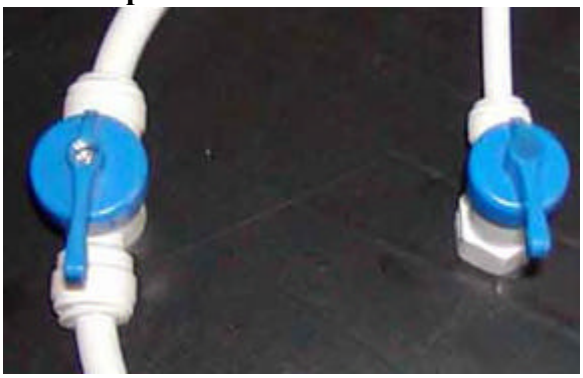
At this point your install should look like the photo.

In rare cases the threaded tank connection may leak. This leak is easily fixed by a few wraps of Teflon tape on the threads. MiraculeWater usually ships the tanks with Teflon tape on the threads for this reason.

Flushing The Processor

The processor is shipped with a protective solution in the 4th filter stage and must be flushed before drinking the finished product water. While the protective solution is not known to be toxic, we do not recommend drinking water with the protective solution in it.

The processor will make some noises as it flushes the air out and fills with water. These noises will stop in about 2 minutes and after about 4 minutes the preservative will start to flush out of the processed water spigot. The processor should be run like this with the spigot open for about 5 minutes to allow trapped air to escape.



1.) Turn the cold water supply valve on and make certain that the processor supply valve and tank valve are in the on position shown.

2.) Move the processed water spigot to the continuous on position shown for 5 minutes.

3.) Next, the spigot should be moved to the closed position shown in the picture to the right, and the processor should be allowed to run until it shuts down indicating that the holding tank has been filled. The holding tank should now be drained by moving the spigot valve to continuous on position for 5 minutes.

4.) Then repeat step 3 once. Depending upon the model of processor you have installed and other factors, the tank may take 2 hours or more to completely fill.

5.) AFTER THE SECOND TANK OF WATER IS DRAINED THE PROCESSOR IS READY TO USE.

Troubleshooting Guide

NOTE: If there are any leaks, check that the lines have been fully inserted into the connectors. If the lines have become scarred it may be necessary to trim ½ inch or (2cm) from the end of the line with a sharp razor blade and replace the line into the fitting as needed. Take whatever additional action is needed to insure that there are no leaks.

PROBLEM	CAUSE	SOLUTION
No Water Gauge needle at 2 o'clock or in the red zone labeled low pressure. The processor is not designed to operate in the red zone, you must make changes and get the needle into the blue area or it will not work satisfactorily.	No pressurized water for the processor to run on. Source water pressure to low to operate. Dirty filters have reduced internal pressure sufficiently to cause the processor to be unable to produce water.	Insure that water pressure is greater than 35 PSI and that supply & tank valves are in the open position. Check the integrity of the Source & Waste Water Tubing. Establish that there is water flow at the location of the Source Water and returning to the drain by the waste water tubing. Replace filters or contact MiraculeWater, at 1-888-722-0242 or http://MiraculeWater.com to arrange factory servicing.
Produces water slowly Source water that does not meet the rated pressure and temperature conditions will greatly slow down the processing rate. Do not expect your processor to dispense product at a similar rate to that of a water faucet until the holding tank is completely full. Product is made drop by drop.	Low water pressure. Low water temperature. Restricted incoming water line. Restricted waste water line. Dirty filters.	Increase water pressure. Raise water temp not above 86 F. Unrestrict the incoming water line. Unrestrict the waste water line. Replace filters or contact MiraculeWater, at 1-888-722-0242 or http://MiraculeWater.com to arrange factory servicing.
Makes noise or black tubing moves/pulses.	This is normal operation when the brine pump is working against pressure.	No action needed.

Cleaning & Maintenance

Cleaning

- **The processor is water resistant, but not water proof and can be damaged by submerging.**
- **Use a soft cloth with warm water and a mild detergent to clean the exterior of the Water Processor if needed.**

To Maintain Freshly Processed Water

- **Empty the Water Tank and allow refilling with freshly processed water if Processor has not been used for several days.**

Maintenance

- **Other than Replaceable Filters, there are no user serviceable parts inside your Processor.**
- **To replace Filters, visit http://MiraculeWater.com/support.html, download and print the service manual.**
- **MiraculeWater offers factory servicing via an exchange program. Contact MiraculeWater and request more information and current rates for factory servicing of your Processor**

Contact Us:

Support issues - Support@miraculewater.com
General Info - http://MiraculeWater.com
Replacement parts - Sales@MiraculeWater.com

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