



WATER PURIFICATION SYSTEM



Owners Manual
WFL Model 233 – UV

Bracketed UV™

Congratulations!

You have purchased the finest water purification system on the market today. You have taken a major step in improving the quality of your drinking water and in contributing to your family's health.

The WFL water purification system is a uniquely designed multi-stage system that provides the user with pure water right from the tap and is easily installed under the sink in the kitchen, bathroom or wherever purified water is desired.

WFL provides clean, clear, better-tasting water while eliminating the potential bacteriological problems associated with ordinary filtration systems.

This provisionally patented process represents the best technology available to remove unwanted impurities yet retain good taste.

According to a study conducted by the United Nations, polluted water is one of the major causes of infectious DISEASES. The new Water for Life purification system protects the quality of your drinking water.

Water for Life utilizes ultraviolet sterilization because it has proven to be the most effective method to kill bacteria and viruses in your drinking water. With WFL's provisionally patented "Bracketed UV" technology combined with UV energy far exceeding US government guidelines and three stages of filtration, WFL has developed one of the finest systems you can buy.

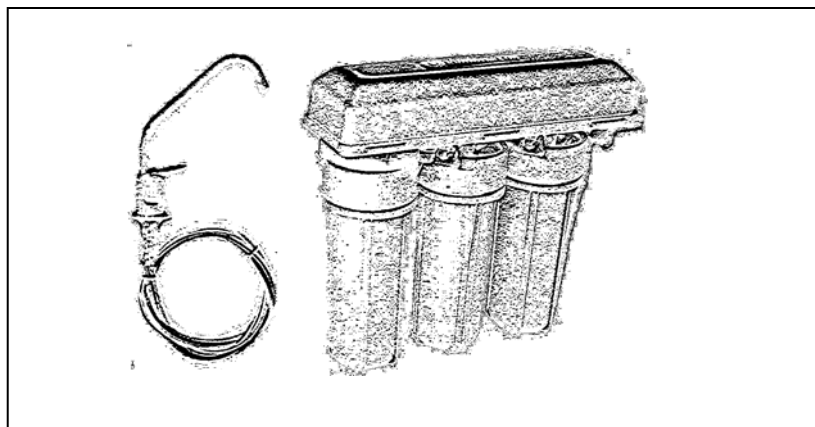


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Important Safeguards – please read carefully

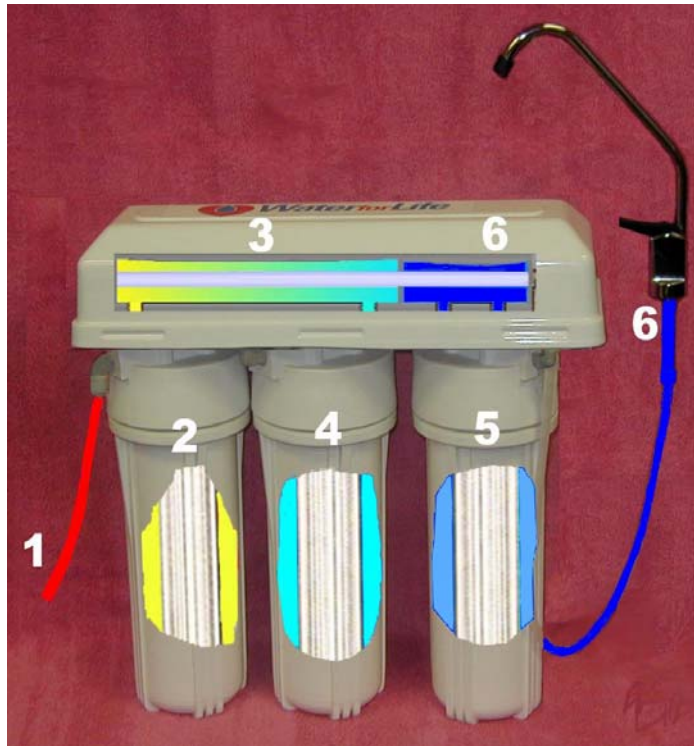
- ❖ The Water for Life (WFL) unit is not intended to, nor does it soften or remove all minerals from water, **and does not replace distilled water for use in steam irons.**
- ❖ The WFL unit is designed for use with **cold water** only. Do not install on a hot water supply line.
- ❖ Keep children away from the main unit when it is in operation.
- ❖ The WFL unit is intended for indoor installation and use only.
- ❖ If the unit is to be left unattended for long periods of time (vacation, etc.), **turn the water supply off** by closing the saddle valve or shutting off the cold water supply. This will prevent flooding should the unit malfunction or break down.
- ❖ **DO NOT** immerse the unit in water.
- ❖ Replace the carbon filter and charcoal filter cartridges twice a year, and the prefilter cartridge every three months or when there is a significant water flow reduction.
- ❖ Replace ultraviolet lamp every year.

WARNING:

Unplug the unit before servicing. The ultraviolet lamp requires voltages in excess of 70 volts, which could represent a shock hazard.

How it Works

The unfiltered water (1) enters the system through a pre-filter (2), where the impurities such as rust and sediment are trapped. Then the water passes through the sterilization chamber (3), where



microbiological organisms are exposed to UV light, destroying the DNA. The water then passes through an activated carbon filter (4) specifically designed to remove chlorine and other undesirable tastes and odors. It then passes through an activated charcoal filter (5), where additional impurities are removed. Water then enters the smaller UV chamber (6) to protect the filters from reverse contamination, such as airborne bacteria, entering the system from the tap. Without this second chamber, the carbon filter becomes a natural breeding ground for microorganisms, recontaminating the water they are intended to clean. Leaving the second chamber, the water goes directly to WFL's special faucet. The water drawn from the faucet is clear, clean and pleasant tasting. You will be amazed at how much better foods cooked with purified water will taste and how delicious beverages like tea and coffee can be.

Installation

Choosing a Location

Prior to installation, place the system in the planned location and make the following decisions:

- ❖ **Where will the electrical module be plugged in?**
- ❖ **Where will the faucet be positioned?** See page 7 for installation instructions.
- ❖ **Is the cold water supply convenient to the faucet?** This is essential for convenient filter maintenance. See page 15 for maintenance procedures.
- ❖ **With the brackets in place, can the unit be readily removed for maintenance?**

Once these questions have been addressed, proceed with the installation in the following order:

1. Electrical module placement
2. Mounting brackets
3. Faucet installation
4. Unit plumbing
5. Ultraviolet lamp installation
6. Cold water supply hookup
7. Initial system operation

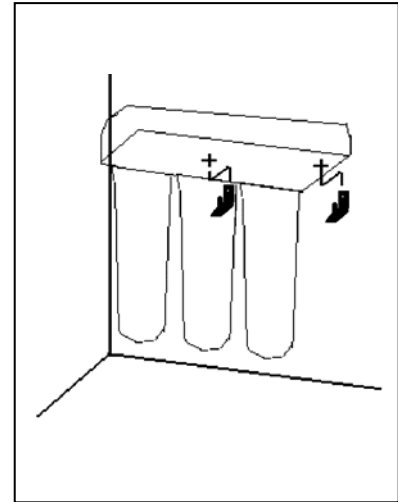
1. Electrical Module Placement

The wall module can be plugged in at a convenient location within the 5-foot radius of the purifier connector. If no outlet exists, contact a qualified electrician to have the electrical outlet installed, in accordance with local, state and national electrical codes.

Installation

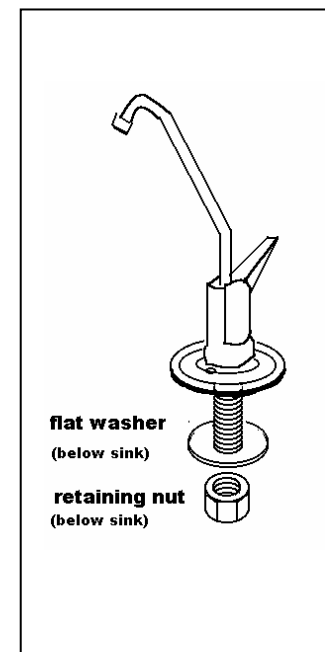
2. Mounting Brackets

- ❖ Mounting bracket hardware can be used with wood, wood composition board or sheet metal (If you are mounting on a different type of material, the appropriate mounting screws may be purchased at your local hardware store).
- ❖ Place the system in the intended location.
- ❖ The mounting brackets are not intended to support the weight of the system. The system is designed to rest on the floor. The brackets are intended only to keep the unit from accidentally tipping over.
- ❖ Mount one of the brackets on the chassis with the cover off. Mark bracket position with a pencil with unit in place. Remove unit from the work area and remove bracket from the unit. Mark hole locations. The second bracket is located 10 inches (25.4 cm) from the first. The brackets should be accurately located, or the studs will not line up with holes in the chassis of the purifier.
- ❖ Drill 1/8" (3mm) pilot holes at each of the four marked locations. Firmly attach the mounting brackets in position. The unit should not "wobble" when installed.



3. Faucet Installation

- ❖ Install the faucet onto the sink or countertop. Newer sinks may have a knockout tab, providing a hole whereby the faucet can be installed. Sprayer units commonly found in sinks can also easily be removed, and the hole in the sink can be used by the system faucet. You may choose to keep the sprayer and add a new 1 inch diameter hole in the sink or countertop.
- ❖ For installation on stainless steel sinks: Mark the spot for the hole with a center-punch and drill the hole for the chassis punch (3/8 inch = 9 mm) or the hole saw (1/4 inch = 6 mm).
- ❖ For installation on enamel or porcelain sinks: A special drill bit kit is required. Extra care must be taken to prevent chipping. Contact your WFL dealer or local hardware store for the proper tools.
- ❖ Remove the retaining nut and flat washer from the threaded stem at the bottom of the faucet.

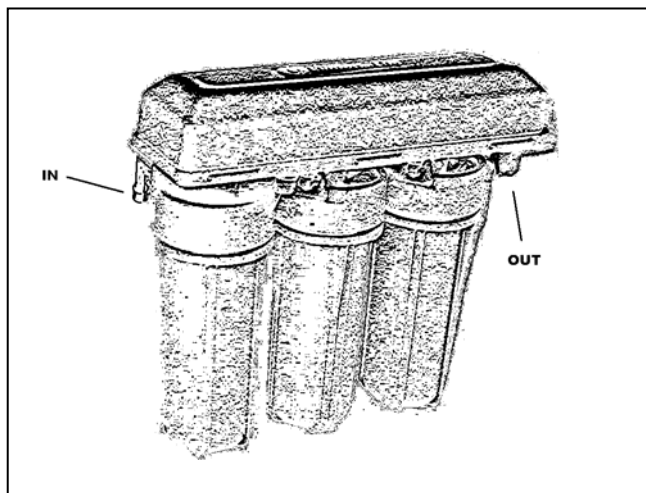


- ❖ Insert the faucet into the hole and securely fasten it in place with the flat washer and retaining nut supplied. A basin wrench may be required.
- ❖ **Orient the faucet handle to the rear** (LED facing front). With someone holding the faucet in position, tighten the retaining nut securely, using an adjustable wrench. If help is not available, a wrench may be wedged against the countertop backsplash. **Be careful not to twist the LED plate against the faucet. Doing so will damage the LED.**

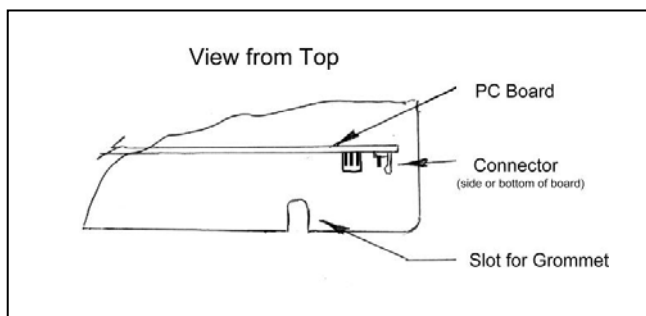
4. Unit Plumbing

Plastic tubing provides the flexibility required for access to the unit during maintenance. Do not substitute with other types of tubing. The tubes push directly into the fittings. Be certain to seat firmly.

- ❖ With the triple tube faucet, attach the GREEN tube to the fitting of the prefilter labeled "IN".
- ❖ Attach the WHITE tube to the fitting of the UV chamber labeled "OUT".



- ❖ Remove the top cover by gently lifting the edges. There are no screws holding it in place.
- ❖ Insert grommet into hole and plug-in faucet LED connector as shown. Note: connector pins may be on either bottom or side of PC board.



5. Ultraviolet Lamp Installation

You must install the new lamp before continuing. In many instances, the unit may be shipped with the lamp already installed. To verify, check that lamp T-handle is visible at the end of the sterilizer tube, while the unit cover is removed. To install, refer to the instructions "Replacing the Ultraviolet Lamp" on page 14. Replace the unit cover.

Installation

6. Cold Water Supply Hookup

Be sure you have shut off both your hot and cold water supply lines.

NOTE : If water pressure exceeds 60 psi, a pressure regulator must be installed before the unit's inlet.

- ❖ Choose a location on the **cold water** line where the saddle clamp valve is to be installed. If the **cold water** line has a shutoff valve present, it is recommended that the saddle clamp valve be located after the shutoff valve.
- ❖ **FOR CONNECTIONS TO COPPER OR PVC PLASTIC TUBING:** Attach the self-tapping saddle clamp valve to the cold water supply line. This is done by securely clamping the valve around the water supply line until the gasket is compressed. Attach the BLUE tube from the faucet to the saddle valve. Turn the handle clockwise to pierce the pipe.
- ❖ **FOR CONNECTION TO STEEL OR BRASS PIPE:** Shut off the water supply and drain line. Drill a 3/16 inch (5mm) diameter hole in the supply pipe, using a cordless drill to avoid shock hazard. Attach the self-tapping saddle clamp valve to the pipe so that the piercing lance fits directly over the hole. Tighten clamp until gasket compresses. Attach the BLUE tube from the faucet to the saddle valve. Turn the handle clockwise to insert the lance into the hole.
- ❖ Make sure all fittings and connections are securely tightened to avoid water leaks. **DO NOT OVERTIGHTEN.**

Installation

7. Initial System Operation

- ❖ Turn ON the water supply.
- ❖ Turn the handle on the saddle valve counterclockwise to start water flow to the faucet.
- ❖ Turn ON the faucet
- ❖ Allow several seconds for the water to fill the system.
- ❖ When a steady stream of water comes from the faucet, shut the faucet off and check all connections to make sure that the system is leak free. Adjust as necessary. **DO NOT OVERTIGHTEN.**
- ❖ When all connections operate properly, turn the system back on for a few minutes to flush the system.

THE FOLLOWING GUIDELINES WILL ASSURE SAFE, PLEASANT TASTING DRINKING WATER DIRECTLY FROM THE FAUCET:

- ❖ Plug the supplied wall mount power pack into the electrical outlet. This will activate the Ultraviolet lamp. Once activated, the lamp on indicator on the faucet will glow. It will glow red initially, then turn to green as the ultraviolet light is functioning. Once the system has been turned on, it should be left on continuously, so that no recontamination can occur.

IMPORTANT: After several hours of rest time, the initial flow of water will be warm for a few seconds. This is normal and is further indication that the UV bulb is functioning properly.

Replacing the Filters

Replace the prefilter with Water for Life Part Number 1200003

Replace the carbon filter with Water for Life Part Number 1200004

Replace the charcoal filter with Water for Life Part Number 1200005

1. Disassembly

To ensure proper operation of the system, the *pre-filter cartridge* should be replaced 4 times a year or when the flow becomes significantly reduced, or 6 months. **NOTE: DO NOT ATTEMPT TO CLEAN AND REUSE OLD FILTER CARTRIDGES.**

- ❖ Disconnect the unit from the electrical outlet **BEFORE** replacing the filter cartridges.
- ❖ Turn **OFF** the source water to the unit.
- ❖ Open the purifier faucet to relieve the system water pressure.
- ❖ Remove the unit from the *mounting brackets*.
- ❖ Place a container under the *filter housings* to collect any water that spills during the replacement procedure.
- ❖ Unscrew the *filter housings* from the *filter cap*, by turning the *filter housing* counterclockwise, using the supplied filter wrench. Remove the old *filter cartridges* and discard.
- ❖ It is a good idea to rinse out the filter housings and fill about 1/3 with water. Add 2 tablespoons of bleach and scrub thoroughly with a brush or sponge. Rinse thoroughly afterwards.

Replacing the Filters

2. Reassembly

- ❖ Verify the *filter housing* O-rings are in place. They may be lubricated with petroleum jelly if necessary.
- ❖ Remove the outer plastic wrap from the new *filter cartridge(s)*.
- ❖ Place the new *filter cartridge(s)* into the *filter housings* and seat securely. The prefilter is on the inlet end, located at the front of the unit. The 2-micron carbon cartridge is placed in the center, and the 1-micron cartridge is placed at the rear.
- ❖ Screw the *filter housing(s)* onto their correct *filter cap(s)* and tighten securely.
- ❖ Shut off the purifier faucet.
- ❖ Replace the unit on the mounting brackets.
- ❖ Follow the initial system startup procedure. (see page 14)

Replacing the Ultraviolet Lamp

THE ULTRAVIOLET LAMP SHOULD BE REPLACED ANNUALLY.

Over time, the ultraviolet intensity will diminish until it is not satisfactory to destroy the organisms in the water. When the lamp is a year old, it should be replaced even if the safety indicator remains green. Do not wait for the indicator to turn red to change the lamp. If the indicator is red, the lamp is not working, and the microorganisms in the water will no longer be destroyed, leaving the water unsafe to drink. **If this occurs, the lamp should be replaced immediately!!**

- ❖ Disconnect the unit from the electrical outlet. Do not attempt to service the unit with power applied.
- ❖ Remove the *lamp access cover* by prying up from the end and center. The lamp "T" handle will then be visible.
- ❖ The lamp used in this system looks similar to a fluorescent lamp. The pins push straight into an internal pin socket. **DO NOT TWIST THE LAMP.** Remove the lamp by pulling straight out.
- ❖ Insert the new lamp (pin end **FIRST**) by holding the "T" handle so that the word "PULL" is horizontal and upright, then sliding the lamp **STRAIGHT** and gently into the system until it is seated in the internal socket. A guide is located at the internal socket to assure proper and easy alignment. Once the lamp has been guided into the connector, push straight in (**DO NOT TWIST**) to properly seat it in the socket.

NOTE: When you remove the lamp from its package, handle it carefully by the ceramic tips. If you touch the bulb, oil from your skin will interfere with the ultraviolet light. Clean the lamp with a soft cloth and rubbing alcohol should this occur.

- ❖ Replace the lamp access cover by snapping into place.
- ❖ Follow Initial System Operation start-up procedure (see page 11)

System Maintenance

Under normal operation, the system requires minimal maintenance. Usually, the only maintenance requirement is of changing the pre-filter cartridge every three months, the filter cartridges every six months and the UV lamp once a year.

Individual usage and inlet water quality may dictate more frequent filter replacement. The filters should be replaced immediately if your water flow becomes restricted, or if bad taste and odors return, even if six months have not yet elapsed.

Other Maintenance Tips

If your unit has not been used for a period of time, (e.g., after vacation) flush the system by running the tap for two minutes. This will flush out any impurities that may have settled in the system from lack of use.

Replacement Parts

To ensure optimal performance from your Water for Life system and to protect your warranty, use only genuine Water for Life filters and lamps available from your Water for Life dealer.

Specifications

Maximum Capacity:

1.5 GPM (6 LPM) 6 months/500 gallon filter replacement interval

Operating Pressure:

20 - 80 psi

Inlet Water Temperature:

90 deg. Fahrenheit maximum

Power Requirements:

Input: 120v 60Hz or 240v 50Hz 15 W.
Purifier requires 12v DC at 1 amp

Overall Dimensions:

UV Chamber: 5 1/2"w x 16" l
Filter Housing (3): 4 5/8"d.x 12"L

Pre-filter Cartridge (spun polyester)

5 micron – (standard) **P/N 1200003**
1 micron – (user option) **P/N 1200006**

Filter Cartridge 2 (activated carbon)

2 micron **P/N 1200004**

Filter Cartridge 3 (activated charcoal)

1 micron **P/N 1200005**

Ultraviolet Lamp:

UV Lamp: 14 1/2", 15 watts
P/N 1200001

Warranty

THIS WARRANTY COVERS THE WATER FOR LIFE RESIDENTIAL PRODUCT LINE

Purifier unit: The Water for Life purifier unit is warranted for a period of three (3) years from the date of purchase against defects in material and workmanship. This warranty covers original components installed by Water for Life at our factory, including quartz tube, electronics, pressure vessel and filter housings. Expendable items (bulbs and filters are not covered under this warranty).

This warranty is void if equipment is not installed and operated according to the instructions as listed in the Owners Manual. It does not apply to damage caused by abuse, accident, neglect, freezing, fire, or other abnormal conditions beyond the company's control. This warranty is void on any part from which the original manufacturing date code decal has been removed or made illegible. This warranty requires the use of Water for Life authorized replacement parts, including filters and lamps. All models must be operated and maintained in accordance with the Owners Manual.

This warranty shall be void if the ultraviolet system is moved from the original point of installation or if the operating pressure exceeds 125 pounds per square inch, or the influent water temperature exceeds 100 degrees F. or goes below freezing.

During the first full year of operation WFL will repair or replace the defective component at its full and absolute discretion. During the second and third years of operation WFL will provide a prorated repair or replacement of any component subject to the other terms and conditions that apply herein.

All defective parts must be returned to Water for Life, Inc. for inspection and repair or replacement. Contact factory for a **Return Materials Authorization Number** prior to shipment. Water for Life will inspect, test and determine cause of defective component parts. Water for Life will have final determination as to which component parts are replacement of total units; and the cost of labor, new components, handling and packaging. Defective parts must be sent prepaid freight. Water for Life, Inc. will not be liable for any labor charges other than factory repairs. Incidental or consequential damages are not covered by this warranty.

All claims must be submitted in writing to your ultraviolet equipment supplier within thirty (30) days from the discovery of the defect. Thereafter, your ultraviolet equipment supplier will correct defective parts and/or workmanship within sixty (60) days from the time of receiving this notice.

This warranty is valid once the customer completes the applicable Warranty Form. These forms must be sent back to the pertinent distribution center to keep on file.