



WHOLE HOUSE/COMMERCIAL WATER PURIFICATION SYSTEM

Owners Manual

WFL Model 833 – UV

Bracketed UV™

Water for Life Corporation, 29 Scudder Road, Newtown, CT 06470 877-LIFEH20 (877-543-3420)

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 from every tap and is easily installed to purify water for your entire home.

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

This patent pending 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 patent pending "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.

- ❖ **Five stages of protection**
to assure the health and safety of your family.
- ❖ **Patent pending "Bracketed UV" technology**
Final UV stage is added to prevent recontamination and extend filter life.
- ❖ **UV dosage exceeds NSF Standards**
60,000 microwatt-seconds/square cm² UV – exceeds NSF standard 55 of 40,000 uw/cm² to safeguard against virile microorganisms.
- ❖ **Teflon coated UV killing chamber**
for ongoing maximum sterilization dosage and lowest maintenance.
- ❖ **UV power idle mode**
for minimum power consumption.
- ❖ **UV safety monitor and removable status panel**
for maintenance reminders and UV protection loss warning.

Table of Contents

Important Safeguards	3
How It Works	4
Installation	
Choosing a Location	5
Mounting	6
Unit Plumbing	6
Ultraviolet lamp installation	6
Connecting Ballast Box	6
Status Panel Installation	7
Initial System Operation	7
Replacing The Filters	8
Replacing The UV Lamp	9
System Maintenance	10
Specifications	10
Warranty	11

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 shutting off the cold water supply ahead of the unit. This will prevent flooding should the unit malfunction or break down.
- ❖ Replace the filters regularly. WFL recommends changing the pre-filter every 3 months and the activated carbon filters every 6 months, or as needed.
- ❖ Replace ultraviolet lamp annually.

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 household taps. 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 flowing into to the household plumbing 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. Soup has never tasted better.

Installation

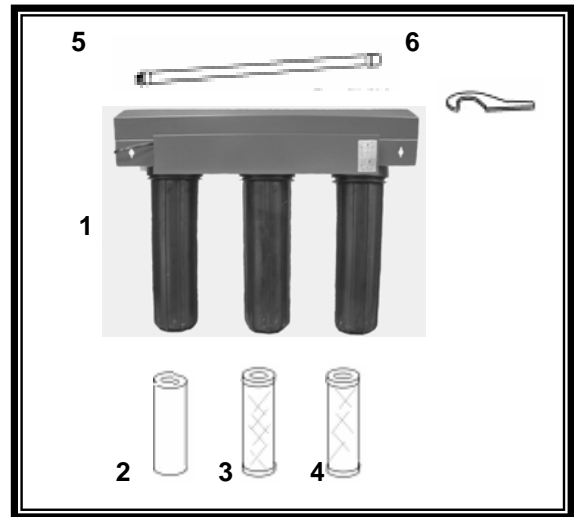
Please read all the instructions thoroughly before proceeding with the installation. We recommend that a qualified plumber perform the installation.

Parts

All installation parts and components are included with the system. Please take a few moments to become familiar with all of the parts before proceeding with the installation.

Figure No./Part Name

1. UV Purifier
2. Pre-filter
3. Carbon Filter
4. Charcoal Filter
5. UV lamp
6. Filter Wrench

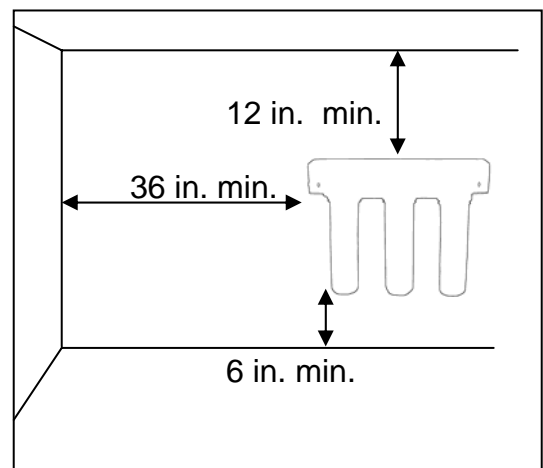


Choosing a Location

The WFL water purification system is designed to be installed on the cold water supply, preferably after a pressure tank. For ease of removing filters it should be mounted at least six inches above the floor. The chassis is made for wall mounting, with screws positioned either on 16-inch centers or 24-inch centers.

The system should be installed keeping in mind the following constraints:

- ❖ There should be a 110 v electrical outlet nearby. The unit is supplied with a 10 foot electrical cord.
- ❖ The unit must be connected to the cold water line, and after the pressure tank (if any).
- ❖ The unit requires at least 6 inches of floor clearance to remove filters. We recommend at least 1-1/2 feet of clearance.
- ❖ The unit requires a minimum of 3 feet horizontal clearance to one side of the unit to permit changing the UV lamp.
- ❖ The unit requires 1-foot clearance above the chassis to allow the user to remove the cover for bulb replacement.



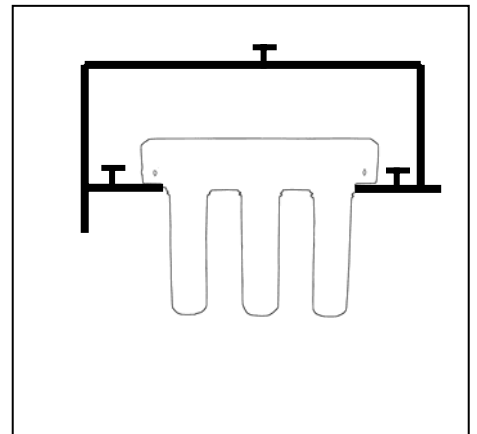
Installation (continued)

1. Mounting

1. Remove the cover by removing one screw at each end.
2. Mount the unit on a wall with supplied ¼" lag bolts 2" long, with holes on stud centers, or ceiling mounted by hanging from rafters using strapping material. Ensure that each bolt is fastened securely enough to handle a 50-pound load. Use pilot holes 1/8 inch smaller to avoid splitting the wood.
3. The bolts must be located at least 22 inches above the floor. Ensure that there is at least 36 inches of clearance from the edge of the purifier to either the right or left corner of the room.
4. If the unit is wall mounted, it is suggested that a 2x4 standoff be added to the wall beneath the unit halfway down the side of at least one of the filters, after the remainder of the installation steps are completed.

2. Unit Plumbing

1. Unit comes with 1" f threaded opening into pre-filter housing and 1" f threaded opening at the outlet, at the opposite end. The unit is reversible, but keep in mind that the end opposite the electrical cable must be at least 36 inches from the wall for bulb removal.
2. We recommend that unions and bypass valves be installed as shown for ease of maintenance
3. For convenience, if the unit comes without pressure relief valves, we recommend installing one at either the inlet or outlet.



Warning: A pressure regulator must be installed if line pressure exceeds 80 psi.

3. Ultraviolet Lamp Installation

You must install the new lamp before continuing. In many instances, the unit is 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 9. Replace the unit cover.

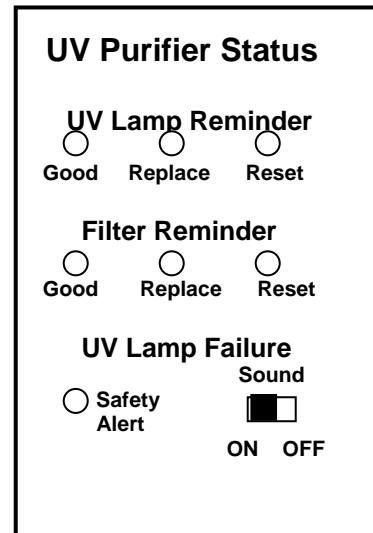
4. Connecting Ballast Box

Hang the ballast box on the front side of the unit so that the status panel is on the connector end of the unit. No adjustments are required. Plug the white connector into the receptacle on the box. If the status panel is upside down, remove the 2 screws at top and bottom and reverse it.

Installation (continued)

5. Status Panel Initialization

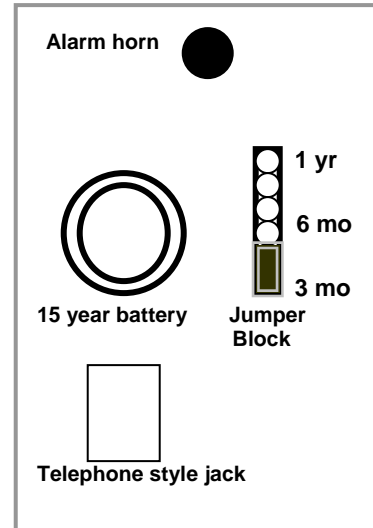
1. Plug the unit into the electrical outlet and turn on rocker switch/circuit breaker, located on the line cord end of the ballast box. This will activate the Ultraviolet lamp. Once activated, the status panel will need to be reset. Once the system has been turned on, it should be left on continuously, so that no recontamination of the filters can occur.
2. Remove the plastic strip to energize the timer power-fail battery.
3. Using a sharp object such as a pin or paperclip reset the UV Lamp Reminder and the Filter Reminder timers. Observe that the green "Good" indicators light.
4. Move the Safety Alert switch to the ON position. This will permit an audible alarm in addition to the indicator in the event of a UV lamp failure.



The UV Lamp Reminder is factory set for 1 year. The Filter Reminder is factory set for 3 months, based on average pre-filter life.

As experience dictates, the filter interval can be reset for 6 months, or 1 year for very clean water. This is accomplished by removing power from the unit, and removing the 2 screws holding the status panel in place. On the rear of the panel, remove the jumper and put it in the 6-month position or the 1-year position. Replace the panel and turn power back on.

The status panel is made to be remotely located where it can be readily monitored. We recommend purchasing the correct length of telephone extension cord, a shallow electrical box, and a blank switch plate panel, all readily available from stores selling electrical hardware. Remove power from the unit, and the 2 screws holding the status panel in place. When the status panel is relocated, install blank switch plate and connect the purifier end of the telephone cable to the connector located on the end of the ballast box. Turn power back on.



Note: Instead of removing the status panel, an additional one can be purchased for remote location. Contact your dealer or Water for Life for an additional control panel.

Initial System Operation

Turn ON the water supply. Allow a minute for the water to fill the system. Check all connections to make sure that the system is leak free. Adjust as necessary.

Replacing the Filters

Replace all three filters with Water for Life Part Number 1200021

Or: Replace the pre-filter with Water for Life Part Number 1200017

 Replace the carbon filter with Water for Life Part Number 1200018

 Replace the charcoal filter with Water for Life Part Number 1200019

Special removal filters (instead of carbon filter)

 Lead removal filter - Water for Life Part Number 1200022

 Iron removal - Water for Life Part Number 1200023

1. Disassembly

To ensure proper operation of the system, the *pre-filter cartridge* should be replaced more often than the carbon cartridges. Initially the filter reminder is set for 6 months, but can be reset as experience dictates according to the procedure on the previous page.

- ❖ Disconnect unit from the electrical outlet **BEFORE** replacing the filter cartridges.
- ❖ Turn **OFF** the source water to the unit or turn valves to bypass the unit.
- ❖ Relieve the system water pressure by opening a pressure relief valve.
- ❖ 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.

2. Reassembly

- ❖ Verify the *filter housing* O-rings are in place. Lubricate with petroleum jelly.
- ❖ 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 5 micron carbon cartridge is placed in the center, and the 2 micron cartridge is placed at the rear.
- ❖ Screw the *filter housing(s)* onto their correct *filter cap(s)* and tighten securely.
- ❖ Replace the unit on the mounting brackets.
- ❖ Follow the initial system startup procedure. (See page 7)

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. The status panel should act as a reminder when the UV Lamp Status indicator turns yellow. Do not wait for the safety indicator at the bottom 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 removing a screw at each end and lifting. The lamp "T" handle will then be visible at one end.
- ❖ 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. Be very careful not to bend the lamp, or it may break in pieces and damage the inside of the purifier.
- ❖ 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 or use latex gloves. 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 and replace the two screws at the ends.
- ❖ Follow Initial System Operation start-up procedure (see page 8)

System Maintenance

Under normal operation, the system requires minimal maintenance. Usually, the only maintenance requirement is of changing the pre-filter cartridge every three to six months, the filter cartridges every six months (or as experience dictates) 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.

System Maintenance

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.

Pre-filter Cartridge (spun polypropylene)

5 micron – (standard) **P/N 1200017**

Filter Cartridge 2 (activated carbon)

2 micron **P/N 1200018**

Filter Cartridge 3 (activated charcoal)

1 micron **P/N 1200019**

Ultraviolet Lamp:

Model 833UV-12 (12 gpm)

33" high power input is 95 watts **P/N 1200009**

Model 833UV-8 (8 gpm)

33" standard power input is 45 watts **P/N 1200020**

Specifications

Maximum Capacity:

Model 833UV-12: 12 GPM (48 LPM)

Model 833UV-8: 8 GPM (32 LPM)

Operating Pressure:

25 - 80 psi

Inlet Water Temperature:

90 deg. Fahrenheit maximum

Power Requirements:

Input: 120v 60Hz or 240v 50Hz

833UV-12:100 watts operating, 50 watts standby

833UV-8:50 watts operating, 25 watts standby

Overall Dimensions:

UV Chamber: 10" W x 36" L

Filter Housing (3): 8 "D x 24" L

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 this 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. 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 100 pounds per square inch, or the influent water temperature exceeds 100 degrees F. or goes below freezing.

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.