

Replacement Lamp Installation and Maintenance Instructions

Ultraviolet Water Disinfection System - Model R1245

(Please save for future reference)

Cautions:

1. **Do not** plug the unit in if any electrical surfaces or electrical parts are wet.
2. Before any cleaning or maintenance on the system, **always unplug** the unit from the power source. Disconnect plug from the power outlet by holding the plug. Never pull the cord.
3. **Do not** look directly at the UV Lamp when it is ON. UV light can cause serious burns to unprotected eyes and skin. **Do not operate the UV lamp outside the UV chamber.**
4. The UV Lamp and quartz dome are fragile. **Handle them with care** and caution.
5. **Do not** touch the lamp or quartz dome with dirty or moist hands. Hold the lamp and dome by the ends with soft dry gloves.
6. **Do not** attempt to replace dome "O" ring without taking the dome out of the chamber.

Lamp Replacement & Dome Cleaning / Replacement Procedure

The UV lamp has an effective life of 9000 hours of continuous operation, after which it should be replaced regardless of its apparent condition. As a good maintenance procedure it is recommended that the quartz dome also be cleaned at the time of lamp replacement.

Note: Some water conditions may require more frequent cleaning of the quartz dome.

1. Turn off supply valve before the unit and open a faucet to depressurize the UV system. Turn off the valve at the UV outlet to isolate UV unit. Now unplug UV unit from electrical outlet and wait for a few minutes to allow the lamp to cool.
2. Unscrew the ground nut and remove the ground wire (green wire with yellow stripes).



3. Loosen the black screw on the lamp connector cover and remove cover from the gland nut.

4. Carefully slide UV lamp slightly out of chamber and hold the lamp end with one hand. **CAUTION: The lamp end can be very hot.** Gently pull off the connector with your other hand to disconnect the lamp completely. Slowly remove lamp from the disinfection chamber completely.



5. Unscrew the bottom gland nut and remove the dome "O" rings attached to the bottom end of the dome. Put a finger under the dome to prevent it from falling.



6. Remove the quartz dome by loosening the gland nut and carefully extracting from the unit. Remove dome absolutely vertically from its position until the other end comes out.

Caution: If you bend the dome mid-way, it can break easily and pieces of quartz can fall into the UV chamber. Do not lose the spring that is inside the dome.

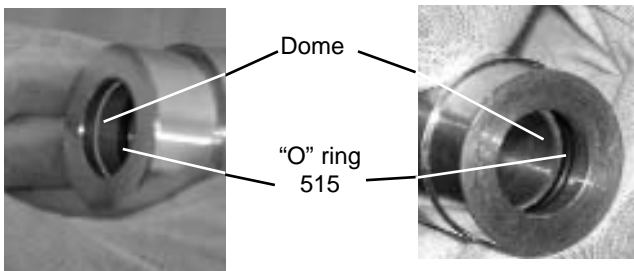
7. Remove and discard used dome "O" ring (4032). Clean the exterior of the dome gently with a vinegar solution, rubbing alcohol or household scale-removal products. **Caution: Make sure that the dome stays dry on the inside.**
8. Using a soft pointed tool carefully take the gland-nut "O" ring out of the gland nut. **Take care not to scratch/gouge the gland nut.**
9. A dome "O" ring (thicker)(4032) and gland nut "O" ring (515 - thinner) are included with the replacement lamp. Slide gland nut "O" ring (515) into the internal groove of the gland nut.



10. Replace dome "O" ring (4032) over the top (open end) of the quartz dome to about 1" from the open end.



11. Gently insert the open end of the quartz dome into the gland nut (4030) until it goes past the nut O-ring (515) and touches the inside top end of the gland nut.

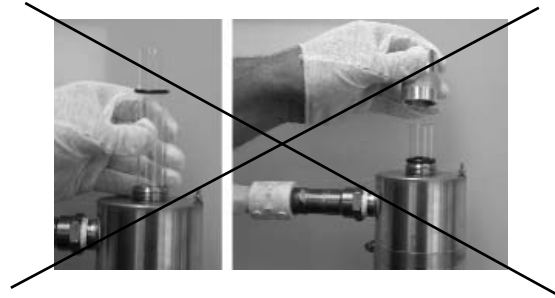


CORRECT

Quartz dome is past gland nut O-ring (515) and is touching the inside top end of the gland nut. **Caution:** Do not push hard as it can break the quartz dome.

WRONG

Quartz dome is NOT past gland nut O-ring (515) and is NOT touching the inside top end of the gland nut.



WRONG

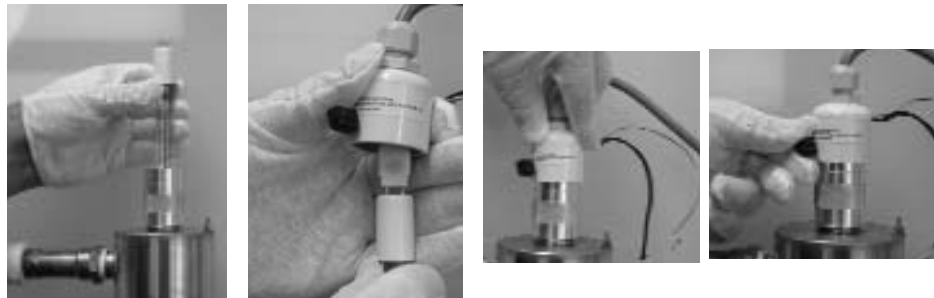
Do not insert quartz dome in chamber without first attaching top gland nut as per instructions. This can cause a leak.



- 12. Carefully slide the quartz dome with top gland nut attached into the opening at the top of the UV chamber. With your finger to guide the dome out through the bottom opening and hold the bottom end of the quartz dome to prevent it from falling down. Hand-tighten the top gland nut into place. Do not overtighten the gland nut as it can break the quartz dome. **Note: Broken quartz domes are not under warranty.**
- 13. Slide the second dome "O" ring (4032) over the portion of the quartz dome that sticks out from the bottom of the unit. Slide the 3rd dome "O" ring (4032) over the second "O" ring and then screw on bottom gland nut (4031) and hand-tighten bottom gland nut.

- 14. Slowly open supply-valve and valves before and after UV system. **Check for leaks. Do not proceed to next step until leaks (if any) are fixed.**

- 15. Slide the lamp spring (4036) into the quartz dome followed carefully by the lamp. Holding the top end of the lamp, attach the lamp to the lamp connector. The lamp connector fits over the pins in only one configuration. Slide the lamp connector cover over the gland nut and tighten the black screw on it.



- 16. Remove the nut from the ground stud at the top of the unit. Next place the ground wire (green wire with yellow stripes) over the stud and tighten the nut.
- 17. **Connecting Ballast to power & Ballast Re-set :** *Depress timer button while reconnecting ballast to electrical outlet and keep the button depressed until the ballast emits a solid three-second beep.* This will re-set the lamp-change-timer to zero and the 3-second beep will confirm that the re-set was successful. **Note: If the timer is not re-set the ballast will continue to alarm.**
- 18. Flush water through the UV for 2-3 minutes. The unit is ready for service. Your Rainfresh UV Disinfection System is now ready for service.

Thank you for purchasing one of our UV Disinfection Replacement Lamps. We are committed to ensuring that you are totally satisfied. If you have any problems, don't go back to the store - Please give us a call!
 HELP LINE: 1-800-667-8072 TORONTO & AREA: 905-884-938 Web Site: www.rainfresh.ca

