

**UV-DS STERILIZER RANGE USER GUIDE****IMPORTANT**

WARNING: Avoid exposure to direct or strongly reflected germicidal rays. Germicidal ultraviolet rays are harmful to the eyes and skin. DO NOT LOOK AT THE LIGHTED LAMP.

WARNING: Always disconnect power to the equipment and unplug, before performing any service or maintenance.

WARNING: For effective bacteria elimination, and to avoid damage to the unit, the water passing through the UV must be completely clear. Please contact us for advice on pre-filtration requirements.

WARNING: Water pressure must not exceed 100psi.

**INSTALLATION NOTES**

1. The ultra violet units are supplied as standard with ¾" BSP female threaded ports to take connection fittings to the main water supply (except for model UV-DS08 which has ½" BSP female ports with optional pushfit adaptors if applicable).  
Only parallel (not tapered) fittings should be used into the threaded ports.
2. We recommend the fitting of isolation valves and bypass for maintenance.
3. For a 'whole house' application the unit should be fitted where the water enters the property to ensure water throughout the house is treated.
4. The UV unit and electrical box should be protected from surface moisture and freezing.
5. When fitting care must be taken to allow adequate space for withdrawal and replacement of the ultra violet lamp, and quartz sleeve if necessary.
6. The unit can be fitted horizontally or vertically if preferred.  
For horizontal mounting: if offset ports (on opposite sides of the UV chamber) the outlet should be uppermost, and if parallel ports (same side of the chamber) both inlet and outlet should be uppermost.
7. If a header water storage tank is present in the property, this should be cleaned and treated with chlorine tablets on installation to ensure no bacteria remain. If used to feed the whole property, the UV unit can be fitted after the tank to protect against future contamination.
8. Please check the flow rate of your unit. Sometimes it is advisable to fit an adjustable flow regulator / gate prior to the unit to ensure the maximum flow rate is not exceeded, otherwise not all bacteria may be killed.

| Model   | Unit wattage | Maximum flow rate (lpm) |
|---------|--------------|-------------------------|
| UV-DS08 | 8w           | 4                       |
| UV-DS15 | 15w          | 8                       |
| UV-DS30 | 30w          | 21                      |
| UV-DS55 | 55w          | 36                      |

9. The unit requires 220-240v power, either connected by plug socket or into a fused switch.

**FITTING INSTRUCTIONS**

1. Carefully unpack and check all parts for damage. The units are normally supplied with the internal quartz sleeve fitted and sealed. Lamps normally packed separately. Screws to fix the brackets are NOT supplied.
2. Fix brackets to wall where the UV is to be mounted (leaving adequate space for lamp removal from at least one end).
3. Fix UV chamber to brackets ensuring it is firmly secured.
4. Join water supply pipes as appropriate to inlet and outlet ports.
5. Mount UV control box centrally adjacent to the chamber, ensuring the electrical wires can comfortably meet both ends of the UV chamber for lamp connection, and that the earth lead can meet the nut on UV chamber.
6. Connect power lead from UV control box to plug or fused switch (5 amp fuse should be fitted to plug).
7. Carefully insert lamp into UV chamber (sits within quartz sleeve).
8. Push white connector plugs from control box onto each end of the lamp. Join earth lead to nut on UV chamber.
9. Turn on water to UV unit and check for leaks.
10. Turn on power to control box and check for 'glow' at chamber ends to ensure lamp is lit.  
**WARNING: DO NOT LOOK AT THE LIGHTED LAMP WHEN LIT**

**MAINTENANCE**

- Once installed the ultraviolet light should remain on continuously so all water is treated. We recommend the lamp should be changed every six months to maintain full strength and, if fitted, the pre-filter cartridge should also be replaced.
- The quartz sleeve within the unit should be periodically cleaned or replaced to ensure it does not impair the UV light. We recommend 2-3 yearly but sooner if water clarity is questionable.

**QUARTZ SLEEVE REMOVAL/REPLACEMENT**

NB: The 'O'ring seals held against the sleeve ends and nuts compress on fitting, so a new seal set is also advisable before attempting cleaning/replacement.

1. Turn off power to UV system.
2. Turn off water to UV system.
3. Disconnect lamp connectors and carefully withdraw lamp.
4. If possible, drain the unit by running the first water outlet point that follows after the UV unit (to reduce pressure in the unit and avoid water spillage when the end cap nuts are removed).
5. Unscrew end cap nuts and remove 'O' ring washers.
6. Carefully remove quartz sleeve – take care not to let the tube drop as you are withdrawing it from the chamber to avoid chips or breakage.
7. Carefully slide in new/cleaned quartz tube taking care not to damage the ends - place fingers into far end of UV housing to help guide tube into place.
8. Re-fit round washer around each end of quartz tube.
9. Re-fit flat washer next to round washer at each end of quartz tube.
10. Screw up end caps firmly but do not over-tighten.
11. Turn on water and check for leaks.
12. If no leaks turn off water.
13. Replace UV lamp and re-fit lamp connectors.
14. Turn on power.