

Ultra Violet – Guidelines for Servicing & Maintenance

Ultra-violet sterilizers are an effective means of destroying bacteria in water. This is done by exposing the bacteria to ultra-violet light of a specific type and wavelength at a calculated intensity and dose level, this light, UVC light is invisible to the naked eye.

The unit will require regular servicing every 12 months as the UV lamp has a finite capacity to emit the UV light at the required dose level. The internal quartz sleeve will also accumulate debris on the outside and so requires removal for cleaning.

Servicing

The UV unit can be serviced by a competent person subject to their following a few basic guidelines listed below:-

1. The 'blue glow' from an ultra-violet lamp is **NOT** the effective UVC light which destroys bacteria, it is a by-product and does not mean the lamp is capable of destroying bacteria, merely that the unit is connected electrically and powered up. UVC light the effective component is invisible to the naked eye.

ONLY FIT the manufacturers recommended replacement lamp to guarantee the UV units performance.

2. Isolate the equipment electrically i.e. switch off **and** unplug the unit.
3. Isolate the fluid connections, i.e. shut-off inlet and outlet valves.
4. Remove the electrical connection to the UV lamp and then remove the lamp; it may then be disposed of properly.
5. Loosen the gland nuts/fixings to remove the quartz sleeve, **note** you may get some water leakage so a bucket or other receptacle may be required to collect it. Take care not to damage the sleeve since this is a specifically manufactured quartz glass which allows the transmission UVC light.
6. The quartz sleeve will require cleaning to remove accumulated debris which would otherwise reduce the effective transmission of UV light. Cleaning maybe carried out with a soft cloth or lightly abrasive nylon pan scrub. In some instances the application of a detergent is beneficial. Take care not to scratch the quartz sleeve.
7. The cleaned quartz sleeve is then refitted and the fixing assembly secured, do not over tighten these.
8. Whilst servicing the unit it is a wise precaution to also check the cartridge filter and fit a new cartridge filter element.
9. Turn on the inlet and outlet valves to ensure the unit is water tight and check for leaks.
10. Refit the new UV lamp and electrical connections and switch the unit on.

The above are general guidelines which apply to Cleanstream Ultra-violet sterilizers and will ensure the safe and reliable operation of the unit for a further 12 months. If you are unsure or need any further information, please do not hesitate to contact us on **0161 609 8888** or visit our website at **www.CleanStream.co.uk** for more information on wide range of water treatment products and services

The cleanliness of **your** water is **our** utmost concern, is it yours?