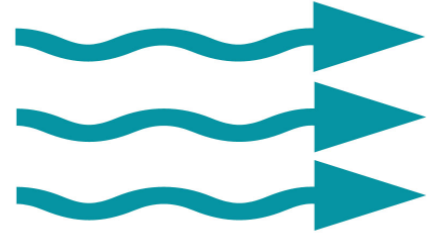


# Ultra Violet

## Sterilisation

Private water supplies may contain micro-organisms that can be harmful if consumed. Ultra Violet light is electromagnetic radiation with a wavelength that is shorter than visible light but longer than x-rays. This disrupts the DNA of micro-organisms, preventing them from replicating and thus de-activating their potential for infection. Ultra Violet systems provide a safe, clean and economical method for sterilisation of water supplies.



Silver range



## Silver 'Basic' Range

The Silver range of UV units provide disinfection across a range of flow rates from 0.5m<sup>3</sup>/hr to 3.4m<sup>3</sup>/hr. These flow rates are based on a dosage rate of 30mj/cm<sup>2</sup>.

The highly effective electronic lamp controller provides a constant output current and has a universal power input (100-240V, 50-60Hz), as well as visually displaying remaining lamp life and total days of operation. All this is packaged in a watertight case and is fully CE compliant.

The Silver range chambers are manufactured from polished, 304 stainless steel, pressure rated tube. Lamp change is easily accomplished without interrupting the water flow and the over-moulded connector can be removed without any additional tools.

Platinum range



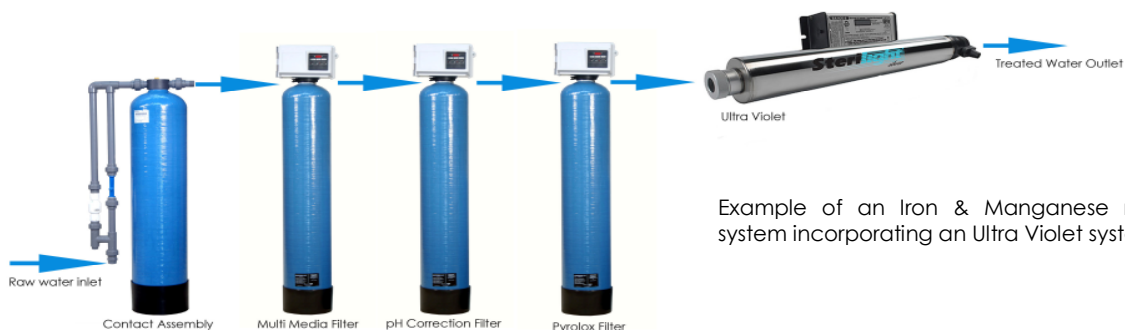
## Platinum SP Range

The Platinum SP range of UV units is ideal for use in a range of commercial & industrial applications, providing disinfection across a range of flow rates from 4.1m<sup>3</sup>/hr to 11.8 m<sup>3</sup>/hr at a dosage rate of 30mj/cm<sup>2</sup>

The controller, as well as having the features of the Silver units also benefit from flow pacing and a UV intensity sensor. Flow pacing allows the unit to run at half power during conditions of no flow and full power when the water is running. This allows the system to operate with minimal power requirements and reduced heat build-up. The optical sensor monitors the wavelength of UV and will trigger an alarm to indicate that the water or quartz sleeve is unclean. The system comes with a set of volt free contacts allowing for external connection to a remote device such as a solenoid valve. Using high-output (HO) low pressure UV lamps, coupled with a 304 stainless steel axial flow reactors. Platinum systems offer a compact installation footprint, yet provide a high flow throughput.

## Pre-treatment

The water entering a UV chamber should be as clear and particulate-free as possible. For this reason, even with mains water, we suggest using a pre-filter capable of filtering down to at least 25 microns. This could be a backwashable multi media filter, a cartridge filter or a Cintropur bag filter.



Example of an Iron & Manganese removal system incorporating an Ultra Violet system

# Ultra Violet

## Silver Range Technical Table

| Model                 | S1Q-PA           | S2Q-PA   | S5Q-PA   | S8Q-PA   | S12Q-PA  |
|-----------------------|------------------|----------|----------|----------|----------|
| Flow rate at 30mj/cm2 | 0.5m3/hr         | 0.7m3/hr | 1.4m3/hr | 2.3m3/hr | 3.4m3/hr |
| Length of tube        | 38.1cm           | 43.2cm   | 53.3cm   | 90.0cm   | 94.0cm   |
| Width of tube         | 6.5cm            | 6.5cm    | 6.5cm    | 6.5cm    | 8.9cm    |
| Controller            | 19 x 8.1 x 6.4cm |          |          |          |          |
| Port size             | 1/4"MNPT         | 1/2"MNPT | 3/4"MNPT | 3/4"MNPT | 1"MNPT   |
| Weight                | 2.3kg            | 2.7kg    | 3.2kg    | 4.5kg    | 5.4kg    |
| Volts                 | 100—250V 50-60hz |          |          |          |          |
| Power consumption     | 16w              | 19w      | 26w      | 39w      | 42w      |
| Lamp power            | 14w              | 17w      | 24w      | 37w      | 39w      |
| Ambient temperature   | 2-40C            |          |          |          |          |
| Max pressure          | 8.62 bar         |          |          |          |          |
| Audible lamp failure  | Yes              |          |          |          |          |
| Visual power on       | Yes              |          |          |          |          |
| Chamber material      | 304 stainless    |          |          |          |          |
| Visual life remaining | Yes              |          |          |          |          |
| Total running time    | Yes              |          |          |          |          |

## Platinum Range Technical Table

| Model                 | SP320-HO                | SP410-HO | SP600-HO | SP740-HO | SP950-HO  |
|-----------------------|-------------------------|----------|----------|----------|-----------|
| Flow rate at 30mj/cm2 | 4.1m3/hr                | 5.4m3/hr | 8.0m3/hr | 9.5m3/hr | 11.8m3/hr |
| Length of tube        | 57.9cm                  | 66.0cm   | 78.0cm   | 100.1cm  | 113.0cm   |
| Width of tube         | 8.9cm                   |          |          |          |           |
| Controller            | 25.4cm x 11.4cm x 5.3cm |          |          |          |           |
| Port size             | 1" MNPT                 |          |          |          |           |
| Weight                | 6.8kg                   | 7.7kg    | 8.6kg    | 10.9kg   | 13.1kg    |
| Volts                 | 100—250v 50-60hz        |          |          |          |           |
| Power consumption     | 42w                     | 52w      | 73w      | 88w      | 110w      |
| Lamp power            | 36w                     | 45w      | 65w      | 80w      | 100w      |
| Ambient temperature   | 2-40C                   |          |          |          |           |
| Max pressure          | 8.62 bar                |          |          |          |           |
| Chamber material      | 304 stainless           |          |          |          |           |
| Communication port    | Yes                     |          |          |          |           |
| Diagnostics           | Yes                     |          |          |          |           |
| Audible lamp failure  | Yes                     |          |          |          |           |
| Safety interlock      | Yes                     |          |          |          |           |
| Dry contacts          | Yes                     |          |          |          |           |
| Flow pacing           | Yes                     |          |          |          |           |
| UV intensity sensor   | Yes                     |          |          |          |           |
| Elapsed time meter    | Yes                     |          |          |          |           |