



WaterflowControl







WFC-US-0500

UV Disinfection System



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WFC-US-0500

The **WFC-500** ultra-violet water disinfection unit for disinfecting drinking or process water. This model can also be sized to disinfect treated waste water, and other liquids with low UV transmission.

Reactor: Stainless steel reactor, horizontal mounting with outlet pointing up.

| | |
|---|--|
| Material | Stainless steel g316L, electropolished |
| In-outlet connection | 1" or 1 ½" male BSPT |
| Reactor volume (litres) | 3.7 l |
| Reactor length overall approx. (A) | 1,006 mm |
| Space required for servicing (B) | 1,000 mm |
| Reactor Weight dry (kg) | 2.6 kg |
| Max. operating pressure (bar) | 10 bar |
| Lamp power W | 80 watts |
| UV-C output W | 28 watts |
| Number of lamps (per unit) | 1 |
| Lamp life | 9000 hours |
| Peak Flow (UVT95%, Dose 25 mJ/cm2) | 6.52 m3/h |
| Peak Flow (UVT95%, Dose 40 mJ/cm2) | 4.07 m3/h |

This information assumes the following conditions:

Water Source: Roof collected rainwater (filtered)

UV Transmissivity (assumed): 90% (this is a reasonable assumption as there should not be much dissolved organics contamination)

Application: Toilet flush and irrigation

UV Dose: 25mJ/cm2. (this dose will provide greater than 99.999% kill rate for E coli / Faecal coliform)

| UV Unit | lps | lpm | lph | m3/h |
|---------|-------|-------|-------|------|
| WFC500 | 1.619 | 97.14 | 5,828 | 5.83 |

Features:

- Lamp parallel to water flow
- View/monitor port
- Easy to install mounting brackets

Power Supply Box: Different versions available all with standard 10A GPO plug and 2m lamp lead.

Version: **PSL 1B-080-DDCV**

Includes visible and audible lamp fail alarm, lamp operation countdown timer 365 - 0 days, lamp change alert, dry contacts for remote fault indication, for indoor operation only.

Dimensions: 205 x 75 x 53 mm, Weight: 0.7 kg

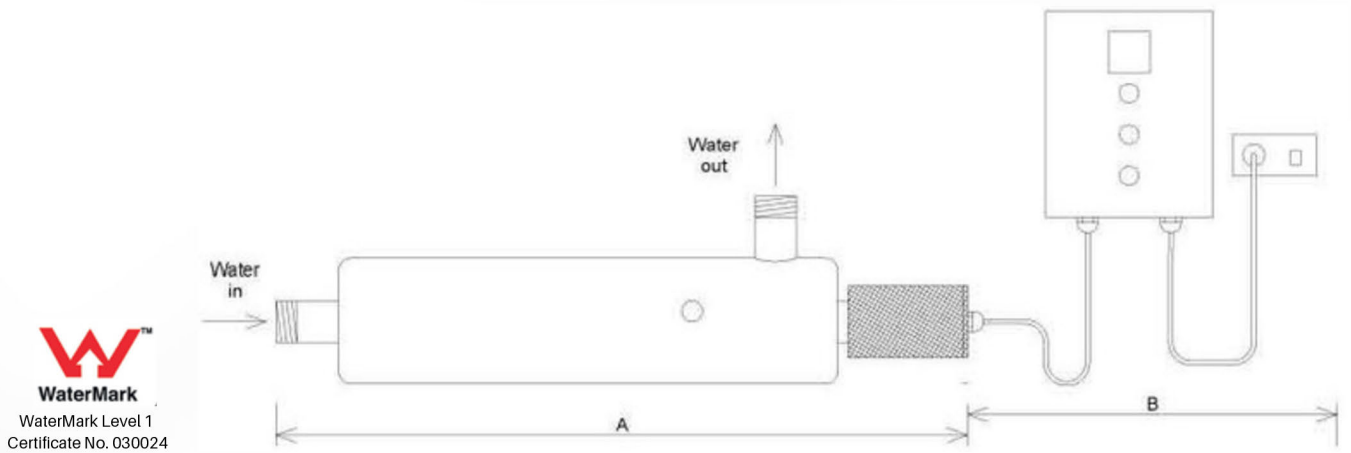
Version: **PSL 1B-080-A**

Includes power on indicator, visible and audible lamp fail alarm, hours run meter, IP65.

Dimensions: 250 x 150 x 130 mm, Weight: 4.0 kg

Options: (additional cost)

- UV intensity monitor
- Stainless steel enclosure or glass reinforced polyester enclosure
- Spare set of volt free contacts
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection



For Advanced UV Disinfection 1405

