







WaterflowControl

WFC-500

UV Disinfection System



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WFC-500

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: **PSL1B-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

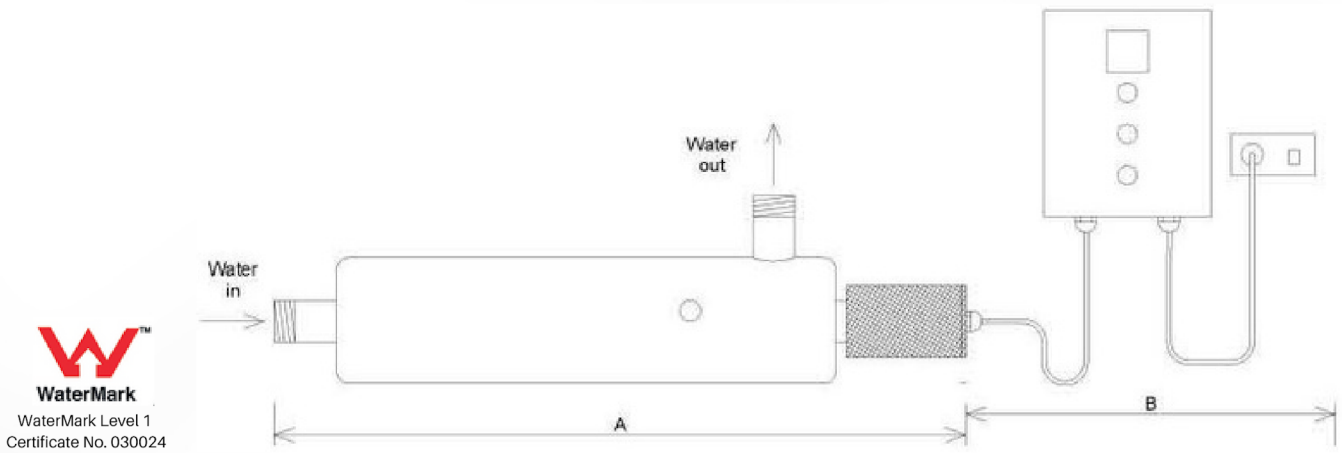
Version: **PSL1B-080-A**

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

