







**WaterflowControl**



# WFC-1800

## UV Disinfection System

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# WFC-1800

The WFC800 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	3" Table E flange or 2" male BSPT
Reactor volume (litres)	8.7 l
Reactor length overall approx. (A)	1,315 mm
Space required for servicing (B)	1,300 mm
Reactor Weight dry (kg)	11.3 kg
Max. operating pressure (bar)	10 bar
Lamp power W	180 watts
UV-C output W	57 watts
Number of lamps (per unit)	1
Lamp life	12,000 hours
Peak Flow (UVT95%, Dose 25 mJ/cm <sup>2</sup> )	20.2 m <sup>3</sup> /h
Peak Flow (UVT95%, Dose 40 mJ/cm <sup>2</sup> )	12.6 m <sup>3</sup> /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/cm<sup>2</sup>. (this dose will provide greater than 99.999% kill rate for E coli / Faecal coliform)

UV Unit	lps	lpm	lph	m <sup>3</sup> /h
WFC1800	4.979	298.74	17,924	17.92

## Features:

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

**Power Supply Box:** Fan cooled, painted mild steel with standard 10A GPO plug.

Input	220-240 VAC, 50-60 Hz
Power consumption W	200 watts
Max. ambient temperature ( °C.)	40°C
Power box dimensions (mm)	400 x 300 x 200 mm
Power box weight (kg)	12 kg
Power box protection class	IP65
Lamp lead length (m)	2 m

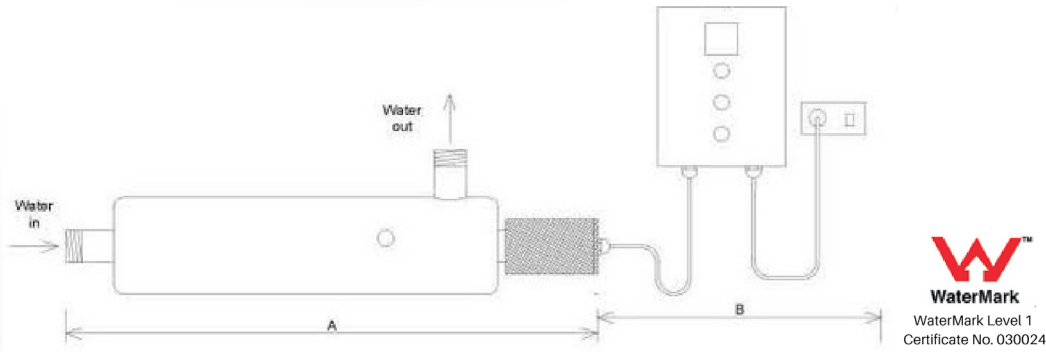
**Options:** (additional cost)

- UV intensity monitor
- Spare set of volt free contacts
- Higher IP rating
- Enclosure material 316ss, or glass reinforced polyester
- Longer lamp lead
- Different mains supply
- Chamber thermostat with solenoid valve for over-temperature protection

**Version: PSL1B-180-DDCV**

Includes visible and audible lamp fail alarm, lamp operation count down timer 365 - 0 days, lamp change alert, volt free contacts for remote indication of fault, Indoor operation only (IP21).

**Dimensions:** 265 x 75 x 53 mm, Weight: 1.2 kg



For Advanced UV Disinfection 1405

