







**WaterflowControl**

# WFC-4500

## UV Disinfection System



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# WFC-4500

The WFC4500 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, electro-polished
In-outlet connection	3" (80mm) Table E flange
Reactor volume (litres)	9l
Reactor length overall approx. (A)	1520 mm
Space required for servicing (B)	1500 mm
Reactor Weight dry (kg)	18
Max. operating pressure (bar)	10 bar
Lamp power W	450 watts
UV-C output W	157 watts
Number of lamps (per unit)	1
Lamp life	12,000 hours

## 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	m3/h
WFC4500	11.156	669.36	40,162	40.16

## Features:

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

**Options:** (additional cost)

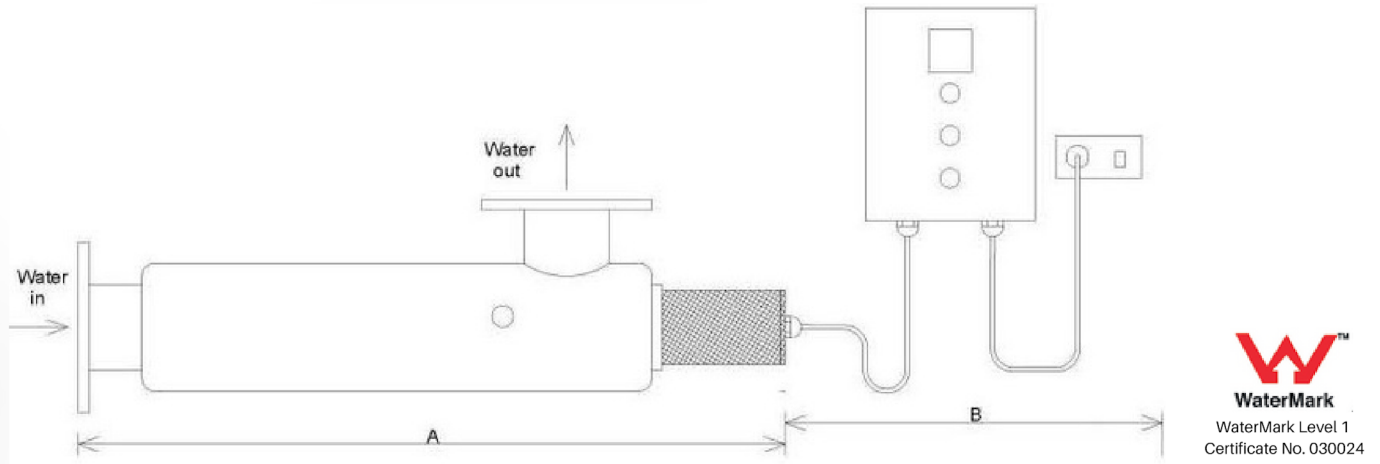
- Sampling ports

**Power Supply Box:** **WFC-UP-450-LFAM** Fan cooled, painted mild steel with standard 10A GPO plug

Input	220-240 VAC, 50-60 Hz, 2.7A
Power consumption W	500 watts
Max. ambient temperature ( °C.)	40°C
Power box dimensions (mm)	400 x 400 x 300 mm
Power box weight (kg)	11 kg
Power box protection class	IP54
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



**WaterMark**  
WaterMark Level 1  
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For Advanced UV Disinfection 1405

