







**WaterflowControl**



# **WFC-1700**

## **UV Disinfection System**

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# WFC-1700

The **WFC-1700** 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	2" male BSPT
Reactor volume (litres)	4.7 l
Reactor length overall approx. (A)	1,315 mm
Space required for servicing (B)	1,300 mm
Reactor Weight dry (kg)	8 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

## 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
WFC1700	3.765	225.90	13,554	13.55

## Features:

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

**Options:** (additional cost)

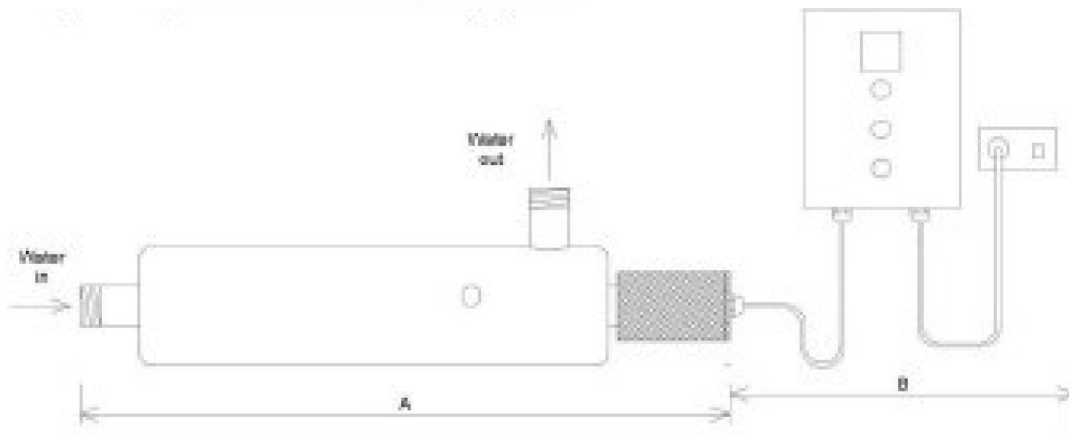
- Sampling ports

**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
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



For Advanced UV Disinfection 1405

