![WFC WaterflowControl logo]

WFC-US-0400
UV Disinfection System

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WFC-US-0400

The WFC400 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 connnection	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	40 watts
UV-C output W	14 watts
Number of lamps (per unit)	1
Lamp life	9000 hours
Peak flow (40 mJ/cm2, UVT 98%)	2.2 m3/h
Peak flow (25 mJ/cm2, UVT 98%)	3.5 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
WFC400	0.864	51.81	3,109	3.11

Features:

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

Options: (additional cost)

- Triclover, BSM process fittings, Sampling ports, Manual Wiper, Thermal relief valve

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

Version: PSL1B-040-BRK
Includes visible and audible lamp fail alarm, for indoor operation only.
Dimensions: 105 x 60 x 30 mm, Weight: 0.4 kg

Version: PSL1B-040-DDCV
Includes visible and audible lamp fail alarm, lamp operation count down timer 365 – 0 days, lamp change alert, for indoor operation only.
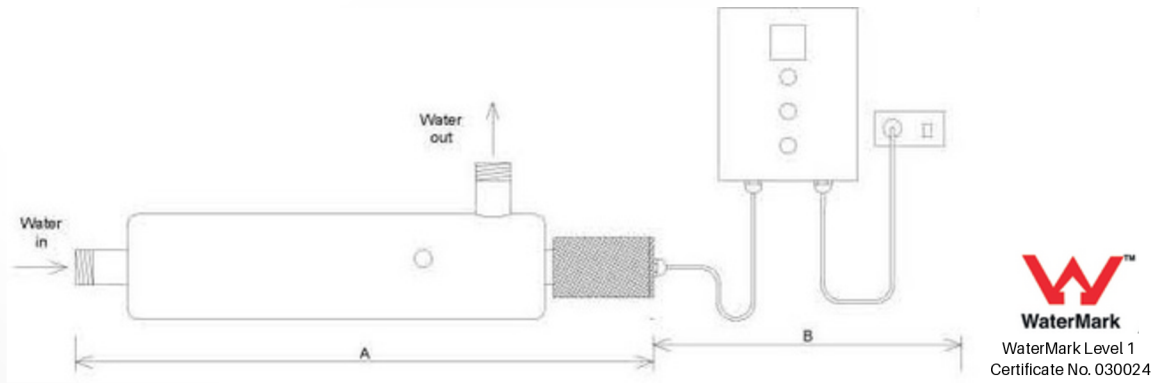Dimensions: 205 x 75 x 53 mm, Weight: 0.7 kg

Includes power on indicator, visible and audible lamp fail alarm, hours run meter, IP65.
Dimensions: 300 x 300 x 150 mm, Weight: 5.5 kg

Options: (additional cost)

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

WaterMark
WaterMark Level 1
Certificate No. 030024

For Advanced UV Disinfection 1405

SPACE FOR SERVICE

ADJUSTABLE

		NAME	DATE	SCALE
	M.O.C: SS316			
	DRN.BY	PML	5.10.17	1:1
	APPD.BY	-	-	

Model	A	B	C	D	E	F	G	H	Rev.	00	Date	05.10.17	DRG.TITLE: RE-WFC400-EL
WFC400	875+/-1	1010 +/-1	69.7+/-1	1000	25+/-l	M5X15	118+/-2	I" BSPT	All Dimensions are in mm unless otherwise specified			SHEET: 1/1	DRG.NO: RE-WFC400-DRG-GEN-BE-BRKT-R00