

# INFRALIGHT UV

Ultraviolet-Genuine Disinfection Solutions

## Commercial Hot Water UV Disinfection Systems

### PRESSURE CHAMBER

Rated Flow	400l/min-24000l/hr
Material	2x AS316 Polished Stainless Steel
Number of Lamps	2x 200W High Output
Number of Sleeves	2
O-rings	2 Viton
Inlet Outlet	50MM BSP Standard
Connection Options	BSP
Working Pressure	850kPa
Design Flow	180/min
Lamp Lifetime	13000 Hrs
End of Life Dose	Minimum 60mJ/cm <sup>2</sup>
Working Fluid Temperature	Up to 120-150C
Head Loss	<0.5m

### ELECTRICAL

Voltage	110-240VAC /50Hz/60Hz
Power Consumption	180W
Fuse Protection	RCD
Earth Leakage Detector	Standard

### CONTROL PANEL

Panel Dimensions	Nominal 400x400x200
Material	ABS
ON/Off Switch	Standard
Illuminated mains on	Standard
Illuminated Lamp failure	Standard
Low UV Alarm	Standard
Lamp failure alarm	Standard
Hours counter	Analogue non resettable
Remote trigger	24V relay
Off Delay Timer	Standard
Auto ON/OFF Function	Standard

### OPTIONAL

UV sensor	Validated ONORM M5873
4-20mA	
Stainless steel Power supply	AS304

### COMPLIANCE

Infralight Hot Water UV systems are specifically designed for the treatment Of hot liquid media. All Infralight systems are Australian made and conform To AS/NZ3000.2000 standards. UV sensors are compliant to ONORM M5873

Model: H4000



Efficient electronic ballast matched to the ultraviolet lamp, 110-240VAC



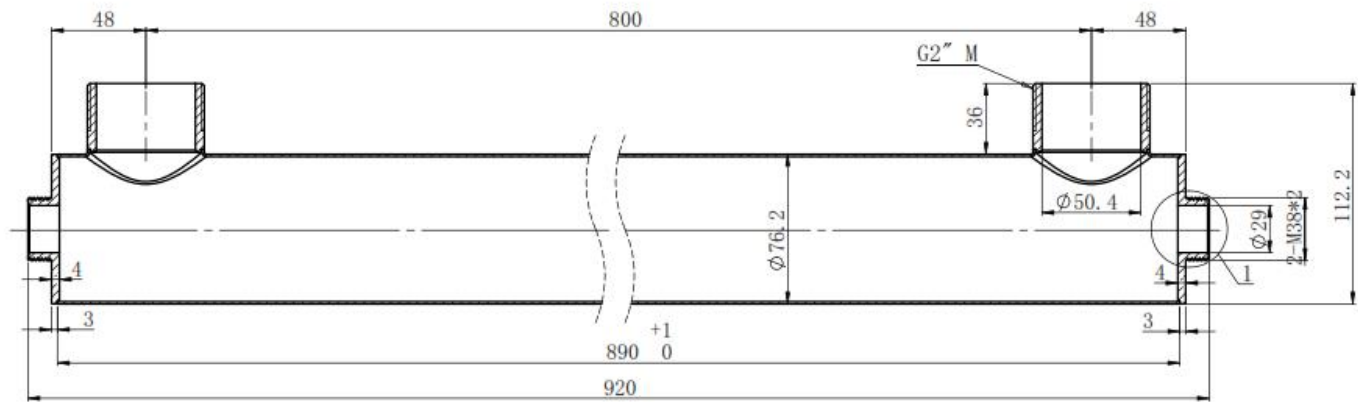
High quality long life UV lamps emitting germicidal ultraviolet light at 254nm



Polished AS316 Chamber



UV Monitor



## UV Pressure Chamber

### Description

The design of the Infralight Hot Water UV sterilisers is intended to provide many years of reliable operation at an economical price. The HW series will disinfect hot water in a wide range of applications. The treatment chambers are AS316 polished stainless steel. A range of options is available to customise the system.

### Operating Regime

The UV system is designed for continuous operation treating hot water at any flow from zero up to the design flow rate. Extended periods of zero flow are not harmful as long as the treatment chamber is full of water. Allow 2 minutes warm up from switching on before starting flow. Allow 50 hours operation for a new lamp to develop full output.

### Treatment Chamber

The Infralight hot water range is suitable for potable water and food industry use.. Lamps are single ended for ease of servicing and connection. Disassembly for quartz sleeve cleaning is quick and user friendly with positive sealing of the sleeves. The treatment chamber is compatible with hot water or low-pressure steam sanitation.

### Control Cabinet

Construction is ABS/powder coated steel with the option of 304 Stainless Steel. The cabinet is IP65 weatherproof rating and UV monitored versions have a clear front for easy viewing. Versions with UV intensity metering have a 4-20mA UV output, digital lamp hours counter, lamps on/off indicator, low UV/lamp fail alarm, earth leakage protection and volt free alarm contacts.

### Installation

1. The treatment chamber is 1m long. Installation should be horizontal with option for vertical. Brackets provided.
2. Leave space to remove the lamp. 1000mm
3. The hot water series is suitable for use in wetted areas or outdoors. A basic weather shelter is recommended.
4. Do not use PVC piping for the immediate connections to the treatment chamber. UV damages PVC at germicidal wavelengths. Ensure piping is suitable for high temperature
5. Inlet/outlet piping connection options include BSP males threads, British or US flanges, RJT (BSDM) male sanitary unions and triclamp ferrules.
6. For full installation details refer to instructions provided with the unit.

**Warning:** UV light is harmful to eyes and exposed skin. A safety notice is included with the operating instructions