

UV HC Series



Ultraviolet (UV) water sterilizers are a world renowned and proven form of water disinfection within all forms of the water treatment industry. It consists of a purely physical, chemical-free process which makes no change to the taste, smell or colour of the water, and is safe for the environment. UV equipment is easy to install, low in maintenance with very low operating costs. The short irradiation time are also effective against chlorine-resistant pathogens. UV disinfection utilises short-wavelength ultraviolet UVC radiation which attacks the vital DNA of the micro-organisms directly. The micro-organisms lose their reproductive capability and are destroyed.

The **HC Series** is designed for (but not limited too) the domestic and light commercial markets for simplistic, economical and efficient sterilisation. The reactor chambers are high quality 304 or 316L electro-chemically passivated and hand polished stainless steel. The UV system comes complete with UV lamp, high quality quartz thimble and O-Ring, Aluminium mounting brackets, internal earthed two piece knurled end nut and a reliable purpose built waterproof (IP65) ballast with a visual lamp fail indicator and audible alarm.

The **HC Series** is perfectly suited for single tap or whole house applications on all types of water supplies. (pre-filtration requirements will vary depending on the raw water quality).



Model Shown: UVHC720Z-304-SWB



Optional Digital Ballast
Models: UVABUVT6
UVABUVT8

Dry Contact Cable
(Optional Extra)

Benefits

- Fast, Efficient Disinfection
- Low Cost Per Litre
- High Quality SS Reactor Chamber
- No Moving Parts
- Low Maintenance
- Simple to Use
- High UV Dosage
- No Chemicals
- Impossible to Overdose
- Easy Installation

Applications

- Domestic Potable Water
- Process Water
- Food and Beverage
- Hotels and Restaurants
- Health Clinics and Hospital Areas
- Herbal Medicine Production
- Dental Clinics
- Aquarium and Aquaculture
- Ice Manufacturing
- Camp Grounds

Specifications:

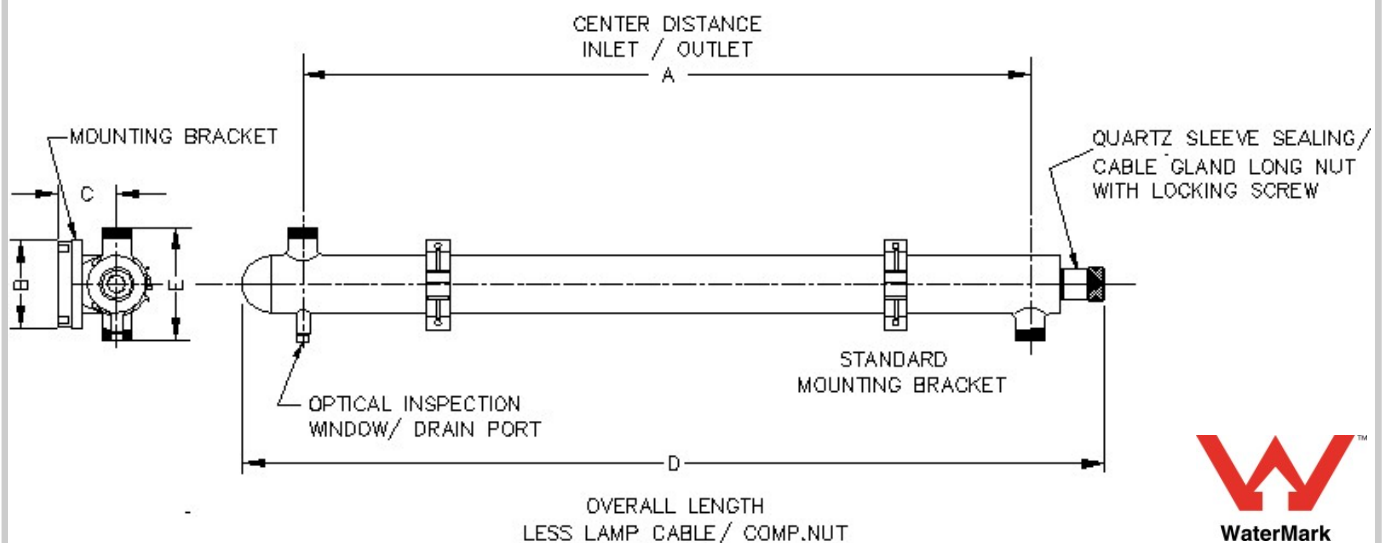
Model	Flow Rate Lpm	No. of Lamps	Lamp Wattage	Ballast	Lamp Fail Alarm	Plumbing BSPM	Chamber Material
UVHC720Z-304-SWB	45	1	40	Std Waterproof Ballast	Audible/LED	25mm	304SS
UVHC720Z-304-UVT	45	1	40	Digital 9000 Hr Reset	Audible/LED	25mm	304SS
UVHC800Z-304-SWB	60	1	65	Std Waterproof Ballast	Audible/LED	25mm	304SS
UVE800Z-304-UVT	60	1	65	Digital 9000 Hr Reset	Audible/LED	25mm	304SS

Flow rate shown is based on UV dosage of > 30mJ/cm² @ 95% UVT

Operational Requirements

The UV System requires the following minimum water quality for correct disinfection. Pre-treatment must be considered if the raw water supply does not meet the following minimum requirements.

- **Turbidity (Suspended Solids):** < 1 NTU (5 micron filtration recommended)
- **Chloride (Cl):** < 250mg/L
- **Hardness (CaCo₃):** < 120mg/L
- **Iron (Fe):** < 0.3mg/L
- **Manganese (Mn):** < 0.05mg/L
- **Recommended Ambient & Water temperature:** 2°C - 40°C (35°F - 104°F)
- **Maximum recommended operating pressure:** 690kPa (100psi)
- **Power requirements:** 240V AC 10amp



Model	A	B	C	D	E	Standard Inlet & Outlet Size
E720Z	800	63.5	110	890	125	25mm BSPM
E800Z	800	63.5	110	890	125	25mm BSPM

Measurements are in millimetres.