



ISO 9002
CERTIFIED
SUPPLIER

STERIFLO[®] LH

ULTRA-VIOLET WATER DISINFECTION

CONTAMINATION
CONTROL
TECHNOLOGIES LTD

Steriflo LH

High flow ultra-violet water disinfection systems.

To meet the requirements of municipal and industrial water users for economical disinfection of high volumes of water Contamination Control have developed the Steriflo LH series of UV systems. UV light of the correct wavelength kills most micro-organisms without chemicals, with no effect on taste, pH or water chemistry. There are no byproducts associated with UV disinfection. Made in New Zealand, LH systems can be custom built to suit customer piping and installation requirements.

Installation requirements are simple, single phase power and water inlet/outlet connections. Interconnecting wiring between the control cabinet and treatment chamber is supplied. UV systems have no moving parts and are easily maintained. LH series UV systems have demonstrated rugged reliability in dozens of installations in New Zealand, Australia and around the Pacific.

STANDARD FEATURES

UV METERING

IP65 CONTROL PANEL

LAMP ON/FAIL INDICATION

REMOTE START

316L STAINLESS STEEL TREATMENT CHAMBER

VIEW PORT

SANITARY OR FLANGE CONNECTIONS

CUSTOM CONFIGURATION

CHEMICAL CLEANING PORTS OPTIONAL

SERVICING

Lamp change:

Normally an annual task, access to the lamps is by removing a safety cover (3 nuts). The plug in lamps can be disconnected and replaced in moments.

Quartz sleeve cleaning:

Gradual accumulation of foulants such as iron, minerals and organic matter will mean that cleaning is required eventually. Removal of a quartz sleeve takes 5 minutes, followed by wiping with dilute acid. Such cleaning is normally only required every few months.

Quartz sleeves:

Proven best in service, quartz is the preferred material for the sleeves around the lamp since it is easier to clean than PTFE when fouled. PTFE is also more difficult to clean back to its new state (USEPA finding). Clean quartz absorbs only 10% of the UV energy from the lamp whereas PTFE absorbs 25% which means a corresponding increase in the number of lamps required to disinfect a given flow. PTFE degrades under UV which means that PTFE sleeves have to be replaced regularly, quartz sleeves do not.

| STERIFLO LH - SPECIFICATIONS | | | | | | | |
|------------------------------|-----------------|-------------------|---------------------|--------------------|-------|--------------------|------------------------------------|
| MODEL | NUMBER OF LAMPS | POWER CONSUMPTION | TREATMENT CAPACITY* | | | | INLET/OUTLET FLANGE SIZE (Typical) |
| | | | 95%T | | 85%T | | |
| | | | L/sec | m ³ /hr | L/sec | m ³ /hr | |
| LH4S | 4 | 340W | 10 | 36 | 7 | 26 | 80mm |
| LH4 | 4 | 340W | 15 | 54 | 10 | 36 | 80mm |
| LH6 | 6 | 510W | 20 | 72 | 15 | 55 | 100mm |
| LH9 | 9 | 765W | 38 | 137 | 33 | 120 | 150mm |
| LH10 | 10 | 850W | 56 | 202 | 51 | 184 | 200mm |

*Treatment capacity shown refers to 40mWs/cm² dose at end of lamp life. For flows below the capacity of the LH4S use of the Steriflo CS series of single lamp UV system is recommended.

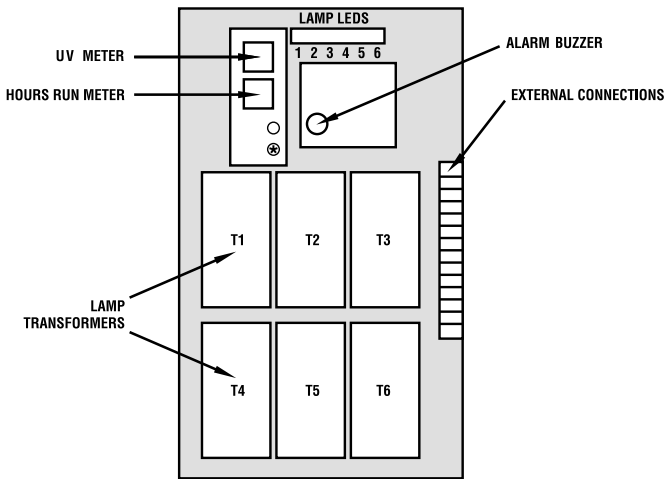
| Control Panel | | |
|---------------|---------------------------|-------------|
| MODEL | DIMENSIONS (mm)* | WEIGHT (KG) |
| LH4S | 750(H) x 500(W) x 320(D) | 50 |
| LH4 | 750(H) x 500(W) x 320(D) | 50 |
| LH6 | 750(H) x 750(W) x 320(D) | 75 |
| LH9 | 1000(H) x 750(W) x 320(D) | 110 |
| LH10 | 1000(H) x 750(W) x 320(D) | 110 |

*Dimensions are subject to change with equipment specifications.

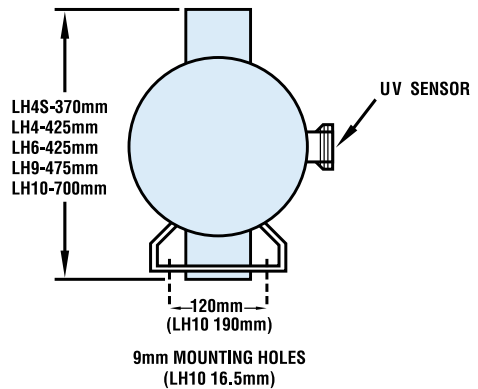
Available voltages: 230/50Hz, 220/60Hz, 110/60Hz

| Specification | |
|--------------------------------------|--|
| Wetted parts: | Quartz, Silicone rubber, 316L Stainless steel. |
| Pressure rating: | 1000kPa standard, 1250 kPa optional. |
| IP rating: | Treatment chamber IP54. Control panel IP65. |
| Control cabinet construction: | GRP with clear front panel insert. (For wall mounting) Optional: 304L Stainless steel. |
| Features: | Remote start, earth leakage protection, safety interlock circuit, UV meter, hours counter, on/off indicator for each lamp, 4-20mA output optional. |

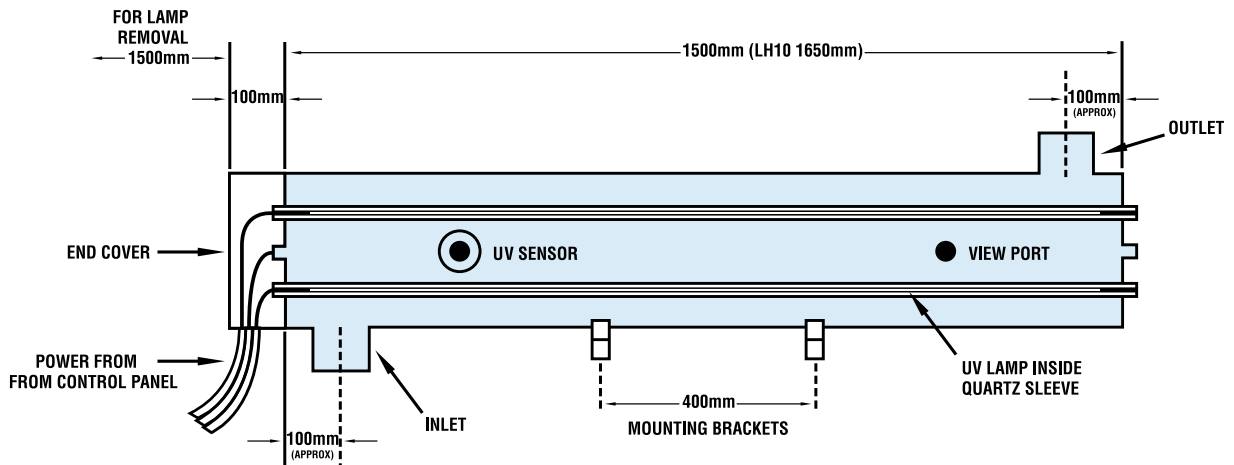
CONTROL PANEL LAYOUT



CHAMBER CROSS SECTION



CHAMBER DIMENSIONS (APPROX)



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