



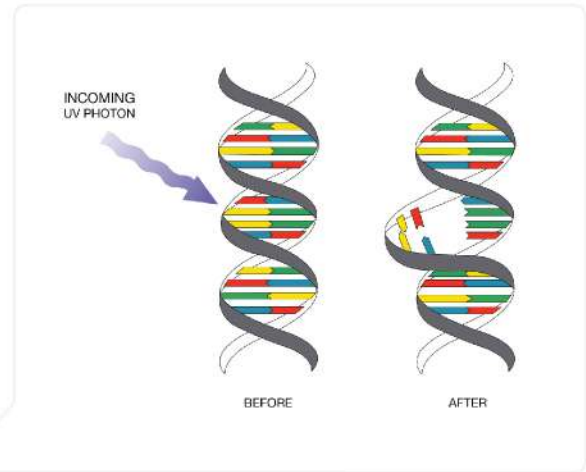
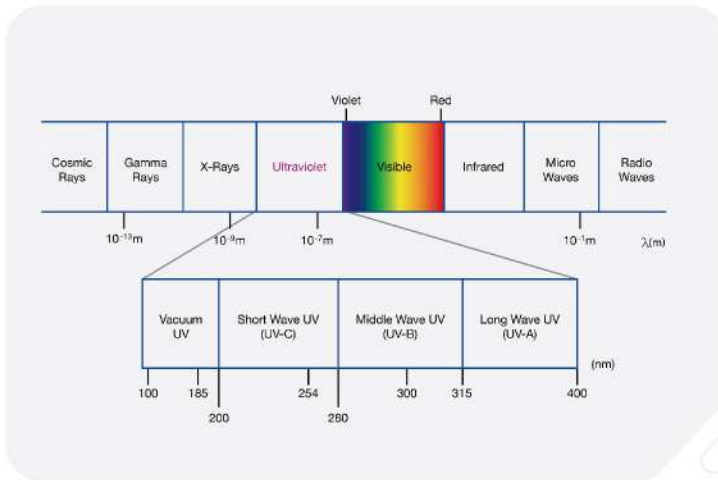
UV-C WATER DISINFECTION

Biological Lighting Germicidal Series



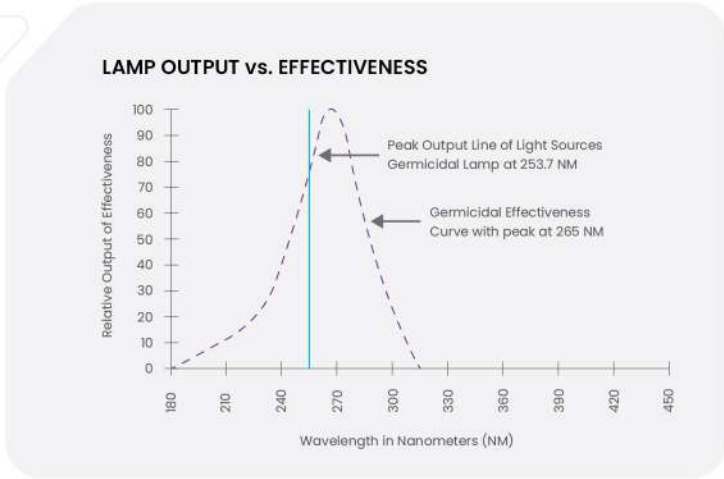
UV-C DISINFECTION

Ultraviolet light is known to kill or inactivate many bacteria and viruses. Therefore, it has been widely used for decades to disinfect drinking water, waste water, air, pharmaceutical products and surfaces compared to all range of pathogens UV light has been proven effective against hundreds of bacteria and viruses. Tested to date Inclusive many epidemics



UVGI is a fine tuned process that uses powerful UV light at different wavelengths. 253.7 nm

in a systematic manner to decompose microorganisms or inactivate them. strains of viruses, bacteria and fungi, preventing them from multiplying and that can spread disease



Overall average rate constants for microbial groups

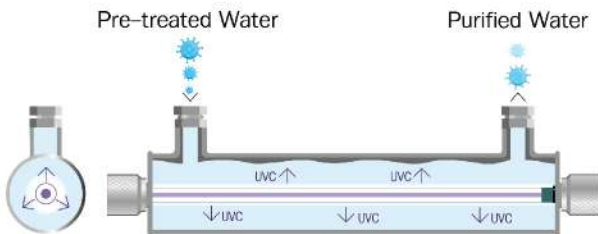
| Microbe | Type | Water | Surface | Air-Lo RH | Air-Hi RH |
|------------------------|--------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | | D ₉₀ J/m ² | D ₉₀ J/m ² | D ₉₀ J/m ² | D ₉₀ J/m ² |
| Bacteria | Veg | 27 | 16 | 6 | 31 |
| Viruses | All | 40 | 73 | 6 | 8 |
| Bacterial Spores | Spores | 160 | 126 | 90 | 89 |
| Fungal cells and yeast | Veg | 229 | 329 | 23 | - |
| Fungal Spores | Spores | 251 | 292 | 315 | 488 |

Warning:

UV radiation may cause harm to the eyes and skin. Only authorized operators are permitted in the area

L&E UV-C WATER DISINFECTION

UV-C water disinfection system effectively kills pathogens, including bacteria and viruses, without the need for chemicals. With its advanced UV-C technology, it ensures reliable and efficient water treatment, providing peace of mind for your water needs. From drinking water to wastewater treatment, L&E UV-C Water delivers exceptional results, protecting your health and the environment. Experience the power of UV-C technology for superior water disinfection. Choose L&E UV-C Water for pure, reliable, and sustainable water solutions.

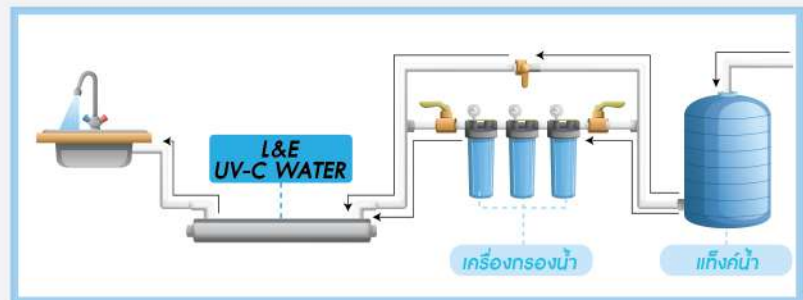


How does it work ?

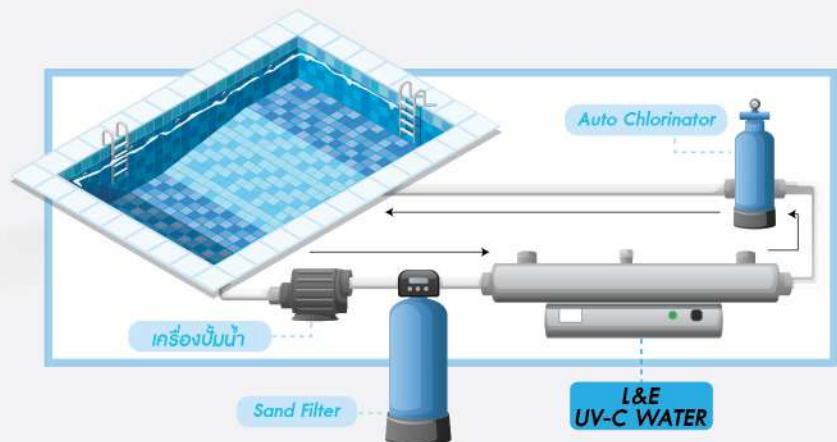
1. Treated water will enter UV-C Water product .
2. The water will be disinfected with UVC lamp inside the UV-C Water product.
3. Purified water with chemical free can be used safely.

Remark : Suitable model choosed to match with inlet and outlet flow rate.

Installation for Residential



Installation for Pool



TECHNICAL DATA



Specification

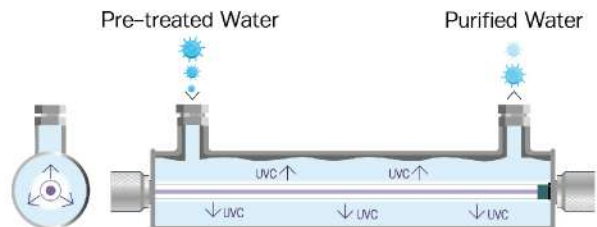
Ultraviolet light treatment is a widely recognized and proven method of disinfection of water and has several advantage over other disinfection methods such as heat or chemical, UV-C water treatment use the wavelength 253.7nm of UV-C photon irradiate all sorts of bacteria and viruses when the water flow past the cavity of the device. Suitable for residential, commercial, swimming pool and industrial applications.

| | |
|---------------------|-------------------------------|
| Housing | Stainless steel 304 |
| Lamp Modules | Quartz Glass, Stainless Steel |
| UV-C | 253.7 nm |
| Lamp Life | 8,000 hours |
| Control Gear | Electronic ballast |



- *CAUTION**
- High intensity ultraviolet light
 - Avoid eye and skin exposure
 - Wear proper eye and skin protection

Dimension



MODEL FOR SELECTION

Suitable for residential or small water systems.

| Product | Rate Flow | | Power | MNPT Thread | Dimension (mm) | | | Applications |
|---------|-------------------|-----|-------|-------------|----------------|----|----|--------------|
| | M ³ /h | GPM | | | L | D | H | |
| UV-CS03 | 0.68 | 3 | 17W | 1/2" | 360 | 63 | 88 | Residential |
| UV-CS06 | 1.36 | 6 | 21W | 3/4" | 490 | 63 | 88 | Residential |
| UV-CS08 | 1.81 | 8 | 28W | 3/4" | 600 | 63 | 88 | Residential |
| UV-CS12 | 2.71 | 12 | 40W | 3/4" | 906 | 63 | 88 | Residential |



Suitable for swimming pools or large industries.

| Product | Rate Flow | | Power | Lamps | MNPT Thread | Flange | Dimension (mm) | | | Applications |
|--------------|-------------------|-----|-------|-------|-------------|--------|----------------|-----|-----|-----------------|
| | M ³ /h | GPM | | | | | L | D | H | |
| UV-C 15T40 | 15 | 66 | 200W | 5 | 2 1/4" | DN65 | 906 | 219 | 420 | Pool/Industrial |
| UV-C 12T80 | 12 | 53 | 160W | 2 | 2" | DN50 | 906 | 102 | 212 | Pool/Industrial |
| UV-C 20T80 | 20 | 88 | 240W | 3 | 2 1/4" | DN65 | 906 | 159 | 360 | Pool/Industrial |
| UV-C 25T80 | 25 | 110 | 320W | 4 | 2 1/4" | DN65 | 906 | 159 | 360 | Pool/Industrial |
| UV-C 15T120 | 15 | 66 | 240W | 2 | 2 1/4" | DN65 | 1220 | 102 | 270 | Pool/Industrial |
| UV-C 25T120 | 25 | 110 | 360W | 3 | 3" | DN80 | 1220 | 159 | 360 | Pool/Industrial |
| UV-C 45T120 | 45 | 198 | 600W | 5 | 3" | DN80 | 1220 | 219 | 420 | Pool/Industrial |
| UV-C 25T150 | 25 | 110 | 300W | 2 | 3" | DN80 | 1625 | 102 | 270 | Pool/Industrial |
| UV-C 35T150 | 35 | 155 | 450W | 3 | 3" | DN80 | 1625 | 159 | 360 | Pool/Industrial |
| UV-C 50T150 | 50 | 220 | 600W | 4 | 4" | DN100 | 1625 | 159 | 360 | Pool/Industrial |
| UV-C 60T150 | 60 | 260 | 750W | 5 | 4" | DN100 | 1625 | 219 | 420 | Pool/Industrial |
| UV-C 80T150 | 80 | 352 | 900W | 6 | 4" | DN100 | 1625 | 219 | 420 | Pool/Industrial |
| UV-C 100T150 | 100 | 440 | 1050W | 7 | 4" | DN100 | 1625 | 270 | 450 | Pool/Industrial |
| UV-C 125T150 | 125 | 550 | 1350W | 9 | 6" | DN150 | 1625 | 273 | 480 | Pool/Industrial |
| UV-C 150T150 | 150 | 660 | 1650W | 11 | 6" | DN150 | 1625 | 323 | 530 | Pool/Industrial |



* Model selection depends on the flow rate of water released from the power machine.



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