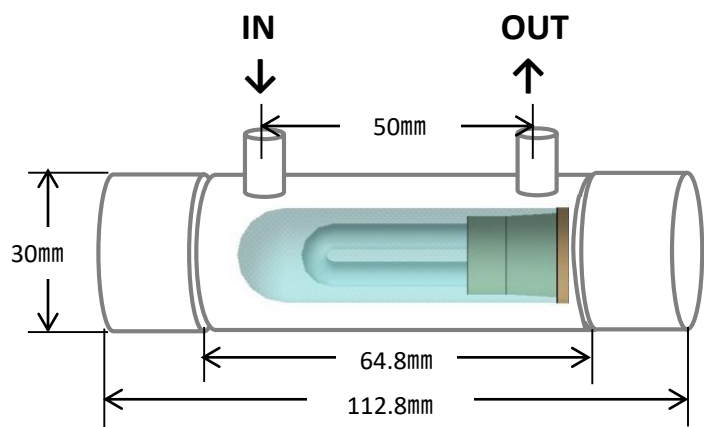
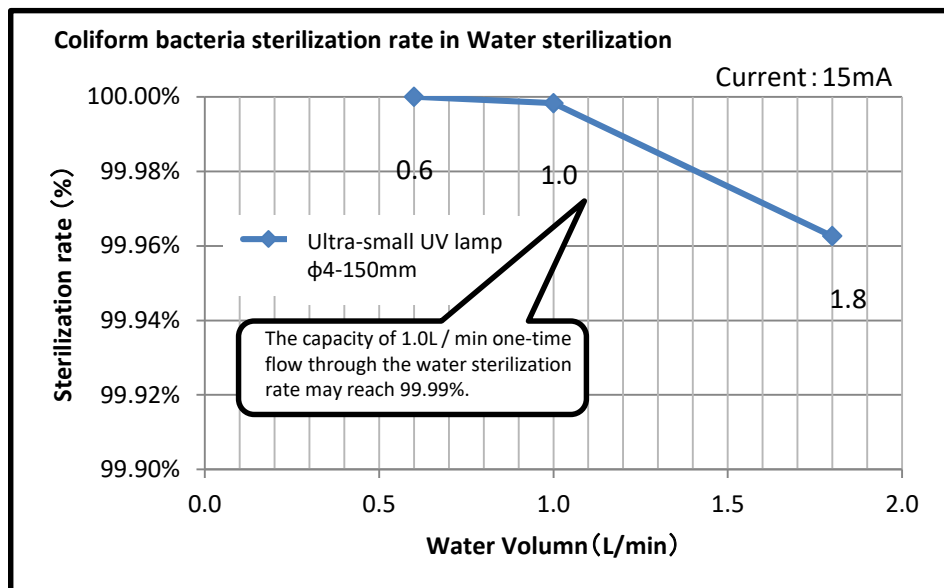


Cold cathode UV lamp proposal

Water disinfection / water sterilization



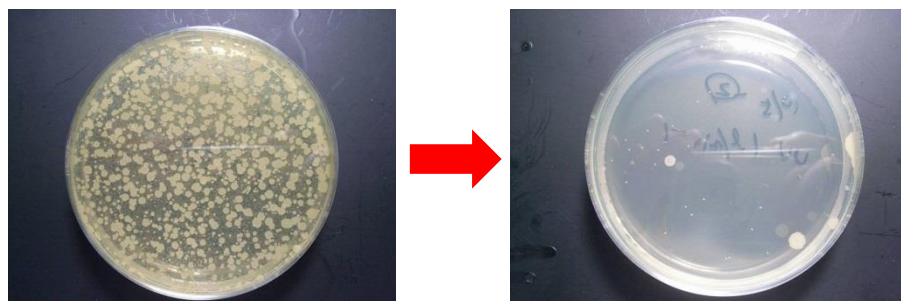
Lamp: Φ 4-150mm ultra-small UV lamp
 Current: 15mA
 Protection tube: diameter ϕ 9 mm
 Shell diameter: ϕ 28 mm
 Shell volume: Around 25mL



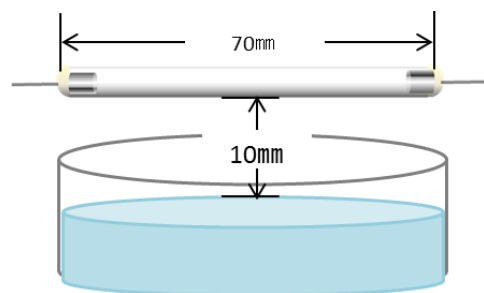
| Size (mm) | Water flow (l/min) | Current (mA) | Bacteria | | Bactericidal power based on amount of ultraviolet radiation | |
|---------------------|--------------------|--------------|-------------|------------|---|-----------------------|
| | | | Before test | After test | Escherichia coli | Staphylococcus aureus |
| ϕ 4-150mm | 0.6 | 15 | 33,700 | 1,185 | 100.00% | 99.998% |
| Ultra-small UV lamp | 1.0 | 15 | 33,700 | 3,700 | 99.998% | 99.920% |
| | 1.8 | 15 | 33,700 | 6,950 | 99.963% | 99.400% |

- ◇ The new product "Subminiature Lamp" can also be used in the limited space of the warm water toilet.
- ◇ Pipeline water can only be killed by more than 99.99% of Escherichia coli when it is directly exposed to ultra-small tube UV rays.
- ◇ Can create clean water even do not using any drugs or detergent.

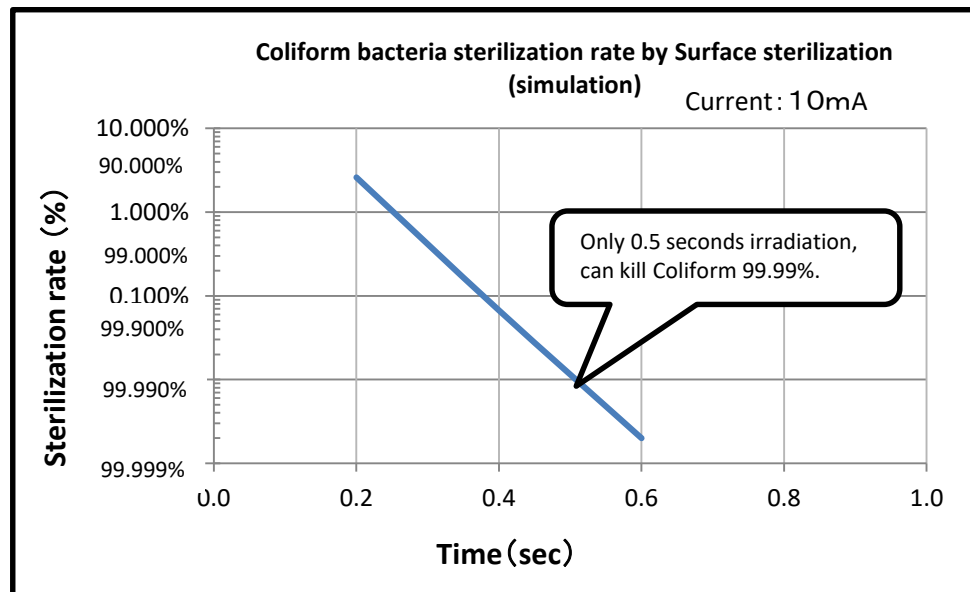
B) Wash the nozzle / Surface sterilization



Before UV irradiation After UV irradiation



Tube: Φ 4-70mm straight tube
 Tube current: 10mA
 Irradiation distance: 10mm



- ◇ Warm water toilet seat near the nozzle, humidity and temperature is provided for bacteria breeding conditions.
- ◇ The new product "Subminiature Lamp" can also be used in a limited space near the washing nozzle.
- ◇ Wash the nozzle and the surrounding irradiation only 0.5 seconds to kill Escherichia coli in 99.99%.
- ◇ Public toilets not only for home use, but also for other public places that are not specified, can also be used and kept hygienic and clean.