

Pilot system for timed exposures from UVC -LED lamps or high performance UVC amalgam lamps for various sterilization tasks.

It has the capacity to reach 6 logs (99,9999%) reduction of common micro-organisms:



This type of the UVC system was shipped to sterilize corks for Arctic glacier water at company on Spitsbergen:



Similar systems for up to 1000 cups and lids per hour are offered with respectively other system sizes and lamps power.

Safety:

- The chamber door is automatically locked and sealed during the UV exposure.
- No EM waves, UV or Ozone leaks outside during work.
- UV lamps are air cooled by fans to enter and to release cooling air through UV secured grids.

Highlights:

360° product exposure to pre-set UVC doses delivered by UVC LED lamps (265-280nm) or by continuous 254 nm Mercury amalgam lamp.

Fully mirrored inside with reflections of 90% by that increasing the sterilization efficiency.

UVC doses are established by setting the timer according to provided tables.

UVC sensor shows the lamp outputs in % which provides an extra control for the process performance.

The lamp working hours counter.

After the sterilization cycle is over, lamps are turned off and tray with sterilized products can be exchanged with a tray with non-sterilized products.

Cycles last 5 min, plus exchanging trays -1 min, total 10 cycles.

Optional: UVC LED light sources.

Its electrical efficiency is about 3 times as high as with the best UVC mercury low pressure lamps. We offer 265 and 273 nm LED lamps for these small UVC continuous wave systems.

These LED's can be also pulsed (as strobe) as per some publications it can have about 25% advantage over fully continuous or CW operation.

El connection:

208-240 VAC, 1-phase, 50-60 Hz, max 300W.

Size, Weight, Enclosure Material:

90 cm long, height is 50 cm, 38 cm deep ; Polished Aluminium, weight ca. 5 kg.

our similar systems are working at various universities and small production lines.