

Pilot system for timed exposures to the continuous UVC light to sterilize cups, lids and other products, also wrapped in a transparent PE foil.

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



This system was shipped to sterilize corks for Arctic pure glacier water at the bottling 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 continuous 254 nm Mercury vapor Lamps of high performance.

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.

Processing products wrapped in a thin PE foil is possible when such foil is partially transparent to the UVC light. This transparency can be measured at our lab.

Example: for the UVC transparency of the PE wrap foil is 50%, the time exposure is simply doubled.

Optional: without turning off-on lamps to use manual lamp shutters. (Those are shown on this system at its bottom.) In this operation the exchange of product trays is with protective gloves, clothes and UV glasses.

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.