

PULSED LIGHT UNIT FOR LID STERILIZATION

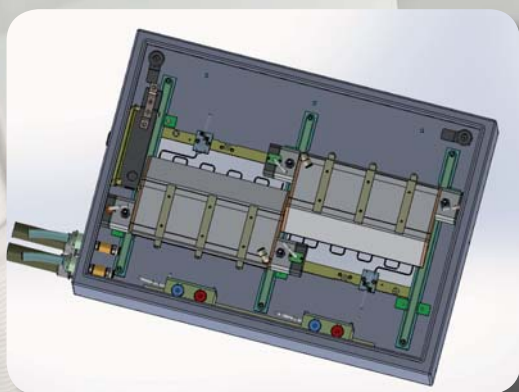
In-line, dry and
chemical free sterilization

PERFORMANCE:
3 TO 4 LOG ON BACTERIA
AND MOLDS

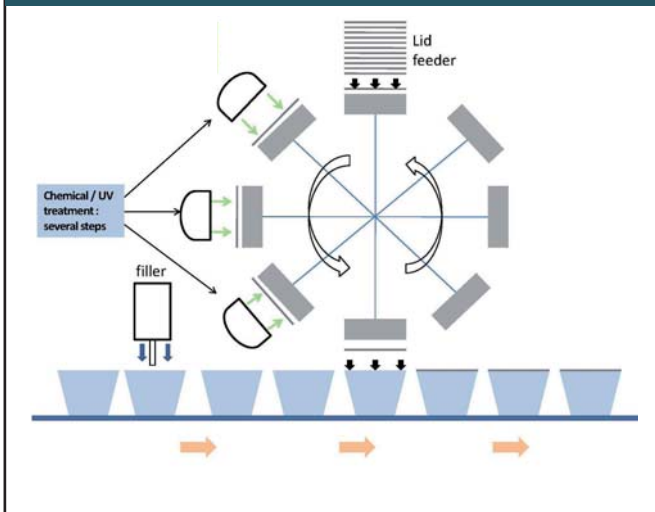
Applications

Aluminium and
plastic lids

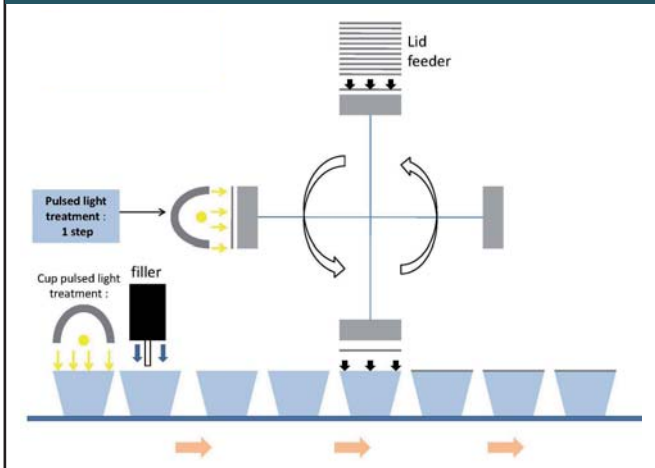
Dairy desserts &
beverages in cups



Lid treatment with chemical / UV solution



Lid treatment with pulsed light



Advantages

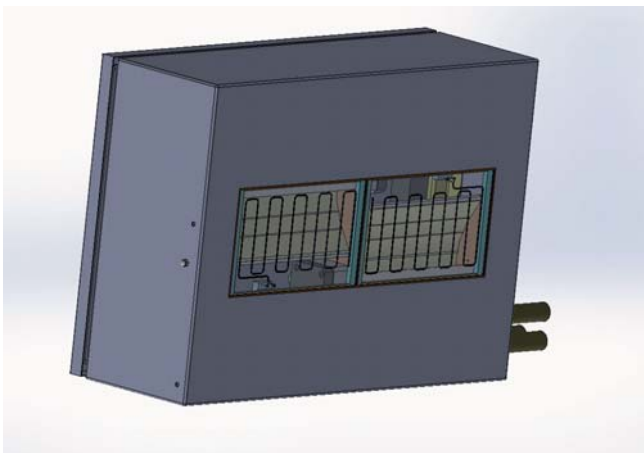
- Compact & easy to integrate before the sealing step
- On-the-fly treatment (for 1 flash/lid treatment), highly reducing the size of the sealing system
- Dry treatment
- No use of chemical disinfectants
- Low energy consumption
- Instantaneous treatment
- No heating or preparation time, optimal availability

Performance

Test realized with *Aspergillus niger* DSM 1988 inoculated in spots (100µl inoculated in 100 spots) at $1.28 \cdot 10^4$ CFU/lid.
 Reflector: 1 lamp; lamp-lid distance: 20 mm
 • One flash: reduction ≥ 4.04 log;
Test realized by Claranor, February 2012

TECHNICAL FEATURES

- Adaptable solution to multitracks lines without any tracks number limitation, thanks to the new reflectors technology designed by Claranor.
- Hygienic conception of the reflectors systems/protection quartz, compatible with industrial constraints; CIP compatibility.
- Broken quartz detection system (optional).
- Max production rate: compatible with all industrial production rates for 1 flash treatment.
- One or several flashes treatment, up to 5 log on *A. niger* and *B. subtilis*.
- Integration on new lines or retrofit.



Case study - Pulsed light equipment lids 80 mm - 4 lids row

Lamps	2	
Flash	1 / lid	
Speed	1 row/ second	
Electric consumption	≤ 0.6 kW	
Optical cabinet	Stainless steel	IP65
Electronic cabinet		IP55

www.claranor.com