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
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 $1.28 \times 10^4$ 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

<table>
<thead>
<tr>
<th>Lamps</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash</td>
<td>1 / lid</td>
</tr>
<tr>
<td>Speed</td>
<td>1 row/second</td>
</tr>
<tr>
<td>Electric consumption</td>
<td>≤ 0.6 kW</td>
</tr>
<tr>
<td>Optical cabinet</td>
<td>Stainless steel</td>
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<tr>
<td>Electronic cabinet</td>
<td>IP55</td>
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</tbody>
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www.claranor.com

Tél. : +33 (0)4 86 40 84 60
Fax : +33 (0)4 90 83 39 82
Chemin de la Rollande - Agroparc - BP 21531
84916 Avignon cedex 9 - FRANCE