

Flat cap sterilization Fruit juice based beverage



The Company - NCA Rouiba

Nouvelle Conserverie Algérienne, NCA Rouiba, is a leading manufacturer of fruit juice beverages in Algeria.

In figures :

- 40% market shares on non-carbonated carton packed soft drinks in Algeria
- 30 M€ turnover
- 250 employees
- Commercial brand : Rouiba

Industrial Issue

Product:	«Mixed Fruit», fruit and pulp rich beverage with few preservatives
Shelf life:	6 months at ambient temperature
Packaging:	38 mm HDPE flat cap, for PET bottles
Line:	Existing Arol line, speed 12,000 bph, cold ultraclean filling
Microbiological issue:	mould hazard



Initially Rouiba installed a continuous UV system on its filling line to treat the caps. The pre-launch trial demonstrated that this solution was not sufficient to eliminate the mould hazard.

Hence, Rouiba chose to test the pulsed light technology. After a successful trial, they installed a Claranor industrial unit on their filler for the treatment of the caps. This solution is now being used in full industrial production.

Claranor solution

- 1 lamp optical cavity
- 1 flash/cap, 3 caps treated with one flash
- Placed just above the capping unit, in the clean area
- Installed 2009



Customer testimonial

Jalel Said, Project Manager, NCA rouiba

“Having opted for cold filling and very low preservative use, our pre-launch trials showed that classic UV decontamination was insufficient to eliminate moulds like *Aspergillus niger*. We thereupon tested pulsed light. Our trials, both in laboratory and real conditions, including inoculation of *Aspergillus niger*, with and without pulsed light flashing, confirmed the efficacy of this technology which is easily adapted to the line, thanks to its compactness, and requires no chemical decontaminating products.”